Geotechnical
Environmental
Water Resources
Ecological

March 9, 2015

Mr. Michael Friend, P.E.
Special Projects Branch
Bureau of Corrective Actions
Nevada Division of Environmental Protection
2030 E. Flamingo Road, Suite 230
Las Vegas, Nevada 89119-0818

Dear Mr. Friend:

Re: Titanium Metals Corporation
Henderson, Nevada Facility
NDEP Facility ID # 000537
Request for Administrative Closure Area 5 and Area 8

GEI Consultants is pleased to submit the above-captioned document on behalf of the Titanium Metals Corporation (TIMET).

If you have any questions regarding this submittal, please do not hesitate to contact the undersigned at (716) 204-7158 (email: kmcintosh@geiconsultants.com) or Richard Pfarrer of TIMET at (702) 566-4453 (email: Richard.Pfarrer@Timet.com).

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Senior Consultant
Nevada Certified Environmental Manager
EM No. 2199; Expires September 24, 2015

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Request for Administrative Closure
Areas 5 and 8
Titanium Metals Corporation
Henderson, Nevada

Submitted to:
Titanium Metals Corporation
Henderson, Nevada

Submitted by:
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March 2015

Project 1323080

JURAT

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances.

For the services provided and attested to with this Jurat including preparation of this soil characterization and Request for Administrative Closure for portions of the TIMET Facility referred to as Area 5 and Area 8.

GEI CONSULTANTS, INC., P.C.

Kelly R. McIntosh
Senior Consultant
Nevada Certified Environmental Manager
EM No. 2199; Expires September 24, 2015

Date Signed: March 9, 2015

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1. Introduction

1.1 Background and Purpose

GEI Consultants, Inc., P.C. (GEI) has been retained by Titanium Metals Corporation (TIMET) to prepare this request to the Nevada Division of Environmental Protection (NDEP) for a determination of Administrative Closure for areas of the TIMET Henderson, Nevada Facility referred to as Area 5 and Area 8. The TIMET Facility location is shown on Figure 1-1. Areas 5 and 8 are adjoining areas and together encompass approximately 13.1 acres of land in the northeastern part of the TIMET property (Figure 1-2).

Actions performed to support this Administrative Closure request include characterization of soils in Areas 5 and 8.

1.2 Description of Areas 5 and 8

TIMET has implemented a Soil Management Plan (dated February 24, 2014 and approved by NDEP letter dated March 28, 2015) which presents the detailed design for a cover system consisting of Geosynthetic Clay Liner (GCL), geomembrane pond liners and, in limited areas, compacted stone. To facilitate the design presentation, construction and future management, the portion of the TIMET property included under the cover was subdivided into Soil Management Areas (designated Areas 1 through 9). These Soil Management Areas are designated for convenience as a location reference and are distinct from source area designations identified and discussed in previous site reports.

Soil Management Areas 5 and 8 together encompass approximately 13.1 acres at the northeast corner of the TIMET Facility property. These areas currently house no manufacturing operations; a small storage shed is located within the footprint of Area 5. The shed is used for storage of spare parts for the groundwater extraction system. The land surface is relatively flat and (prior to capping) surface drainage occurred to a drainage ditch along the east and north perimeters of the area.

Area 8 is secured by perimeter fencing and is currently used as a material management area.

1.2.1 Potential Source Areas

Four (4) Potential Source Areas (PSAs) have been identified within the boundary of Areas 5 and 8. These are/were:

- PSA 3: This is the area formerly known as "Francy's Mountain" located in Area 5. This area contained approximately 8,600 cubic yards of mixed chlorinator dust and CSD solids. Francy's Mountain has been remediated through two removal actions (see Section 1.2.2, below).
- PSA 35: PSA 35 refers to a number of small areas on the site formerly used for storage of drums. One of these areas is located at the southwest corner of Area 8. The Area 8 drum storage area is a small portion of land (about 0.25 acres) which was reportedly used to store scrap materials in 55 gallon steel drums. The drums may have contained scrap metals, rubber hoses, in-process materials, alloys for use in the melt shop, recyclable metals, and some roofing tar material. No leakage is known to have occurred from any of the drums.

- PSA 12: PSA 12 refers to the "Alpha Ditch". The Alpha Ditch was an unlined conveyance that traversed the eastern portion of the TIMET Plant Site and discharged non-contact cooling water. Portions of the Alpha Ditch which were located in/near Areas 5 and 8 are shown on Figure 1-2. In addition to non-contact cooling water, past wastewater discharges may have included venturi scrubber water, dewatering box water, swamp cooler water, and hydroblast descaling water. The Alpha Ditch was replaced with a 42-inch pipeline which was installed above and within the same footprint of the former conveyance.

- PSA 21: PSA 21 refers to the "Back Ditch", a former drainageway located as shown on Figure 1-2. The Back Ditch is estimated to have extended approximately 1,000 feet in length including an extension from the Melt Shop Blast Ditch to the Alpha Ditch. It is reported that the Back Ditch also received waters from a drum crusher unit circa 1984.

1.2.2 Remediation of PSA-3: Francy's Mountain

In 2005 waste solids from Francy's Mountain were removed and transported via railcar to an approved facility for disposal. The material piled at Francy's Mountain was removed to approximately the pre-existing grade. After removal of Francy's Mountain, the disturbed area was treated with a stabilization compound, reportedly to reduce migration of surface soils or residual waste material.

The 2005 removal action at Francy's mountain removed the piled material to what was believed to be the pre-existing grade. However, discolored soil beneath the pile was left in place. As described in Section 3.0, the surficial soils left in place contained elevated levels of a number of metals and radionuclides.

During January 31 to February 6, 2014, an additional removal action was conducted by TIMET. A total of 7,210 tons of soil (including all visibly discolored soil) was removed from the former Francy's Mountain footprint as shown on Figure 1-3. Post-excavation soil samples were not obtained. Groundwater downgradient of this area will continue to be monitored for potential impacts.

1.2.3 Alpha Line Repair and Soil Removal

During July-August 2014, discolored soil was observed during TIMET excavations adjacent to the alpha line (performed as part of pipeline repair). In efforts to identify the vertical and horizontal extent of the discolored soils, Envirocon removed and stockpiled 173 tons of discolored soil; these soils were disposed off-site at a permitted facility.

A small vein of discolored soils was left in place (beneath the Alpha Bypass Line) to the north. The vertical (discolored) soil profile tapered significantly from north to south and (based on the taper) is believed to extend less than 20 feet to the south. Discolored soils, extending to the south, were not observed in excavations completed 10 feet on each side (east and west) of the soils left in place. One sample (AL-1) was collected from the base of the Alpha Line excavation and a second sample (AL-2) was collected from discolored soil left in place beneath the pipeline. Samples were collected by GEI and analyzed as presented in Section 2.0. The analytical results are discussed in Section 3.0.

Other than the damaged section of pipe that was replaced, the remainder of the alpha line exposed during this maintenance appeared to be in good condition. Groundwater downgradient of this area will continue to be monitored for potential impacts.

1.3 Conceptual Site Model Overview for Areas 5 and 8

TIMET has submitted a Conceptual Site Model (CSM) Report to NDEP (GEI, July 11, 2014). The CSM discusses the PSA's present in Areas 5 and 8. This document has not been approved by NDEP and is cited herein only for information purposes.

PSA's 3, 12 and 21 were investigated through sampling efforts conducted for the CSM. There were no known or suspected chemical releases associated with PSA-35, or within Area 8 in general. Therefore Area 8 was investigated through soil borings located throughout the Area (including a soil boring drilled at the approximate location of PSA-35).

These investigations are described in Section 2.0 and results are presented and discussed in Section 3.0.

1.3.1 Current and Future Site Conditions

Current conditions at Area 5 and Area 8 are depicted on Figure 1-4. Subsequent to the 2014 removal action of the footprint of the former Francy's Mountain, more than 95% of Area 5 and Area 8 have been covered as part of the North Site Cover System. The North Site Cover System is comprised of a geosynthetic clay liner (GCL) covered by a minimum 12 inches of cover soils.

All soil in Area 5 is covered by the GCL cover system and concrete. The TIMET site wastewater outfall (Stilling Basin) consisting of a concrete impoundment and the groundwater treatment Air Stripper, which is installed on a concrete foundation, do not include GCL. A small storage shed is located immediately adjacent to the Air Stripper and is installed on a concrete foundation.

The only soil in Area 8 not currently covered by the GCL or concrete is the entrance to Area 8. The area has been prepared, receiving 12 to 18 inches of imported clean fill material, for the installation of an asphalt paved entrance. This work is scheduled to be completed in March 2015. Several concrete material storage areas have been constructed in Area 8; these areas will be used intermittently to stage materials used by and created by TIMET. Area 8 will be entirely covered by the GCL cover system, concrete and asphalt in March 2015.

The future use of Area 5 will be primarily as a site for groundwater extraction wells. No additional development is currently planned for this area. The future use of Area 8 will be as a material management area.

The TIMET facility is secure and the site boundary is fenced. Routine patrols are conducted a minimum of twice per eight-hour shift by site security personnel. Areas 5 and 8 are lighted during non-daylight hours and the potential for trespassers to access the areas is remote. The area will be covered entirely by early 2015 and exposure to soils would not occur.

1.3.2 Exposure Considerations/Future Site Management

The GCL cover is present over more than 95% of Area 5 and Area 8 (Figure 1-4). The remainder (less than 5%) of Area 5 is covered by site infrastructure consisting of concrete foundations and the remainder (less than 5%) of Area 8 will be covered with a concrete pad (future working area) and asphalt-paved entrance. This will prevent direct contact by on-site industrial/commercial workers and trespassers. Transport of soils via wind and water erosion will also be prevented. The potential for off-site residents to be exposed to soils transported from Areas 5 and 8 will be eliminated.

As part of the future management of the soils at the site, a Management Plan for Site Soils (GEI 2015-not yet approved by NDEP) has been developed to provide:

- Requirements for periodic inspection of site cover systems
- Protocols for future excavations by site workers including any health and safety requirements and instructions for soil handling, staging, re-use and disposal
- Procedures for GCL removal (when necessary to access the subsurface) and for repair/replacement of same

The Management Plan for Site Soils includes area-specific requirements as appropriate. If site conditions change or previously unknown contaminants are discovered in the future, Area 5 and Area 8 will be evaluated to determine if the exposure assessment included herein remains valid or if additional investigation is necessary.

1.3.3 Groundwater

TIMET currently operates a Groundwater Extraction and Treatment System (GWETS) to prevent off-site migration of groundwater which may contain site-related contaminants. The GWETS is being operated with NDEP's oversight. Offsite groundwater is being evaluated under the current Monitored Natural Attenuation (MNA) Plan (TIMET 2013).

1.3.4 Soil Vapor

Potential on-site exposures via soil vapor inhalation were discussed in the CSM (GEI, July 11, 2014). Groundwater beneath Areas 5 and 8 may contain tetrachloroethene (PCE) and chloroform at concentrations on the order of 50 to 100 ug/l (GEI 2013). Based on historic use and results of soil sampling, the presence of PCE and chloroform do not appear to be derived from releases local to Areas 5 and 8.

Volatile Organic Chemicals (VOCs), including PCE and chloroform, can volatilize from groundwater and migrate through soil vapor. There are no occupied structures in Areas 5 and 8 and, as summarized in Section 3.0, there were no significant detections of VOCs in subsurface soil samples collected from the areas. There is no complete pathway within Areas 5 and 8 for exposure to VOCs via soil vapor emission or intrusion.

The small unoccupied storage shed located in Area 5 is slab on grade construction and will be generally unoccupied. Exposure to VOCs via soil vapor emission or intrusion would not be expected to occur.

2. Soil Sampling

2.1 Basis of the Area 5 and Area 8 Soil Sampling Programs

The investigation of Areas 5 and 8 focused on chemical presence in soils. Francy's Mountain in Area 5 was a known PSA and residual chemical presence in surficial soils at the base of the pile (removed in 2005) was a focus of the Area 5 investigation. In addition, drainageways traversing Area 5 were investigated. As indicated in Section 1.0, the site history is not suggestive of any particular chemical contamination in Area 8. Therefore, Area 8 was investigated through soil borings located throughout the Area (including soil borings drilled at the approximate location of PSA-35).

A wide range of parameters were analyzed in both Areas 5 and 8 to investigate the potential for contamination due to known and unknown releases or conditions.

Groundwater beneath Areas 5 and 8 has been investigated under a site-wide program and potentially impacted groundwater is being addressed as indicated in Section 1.3.3.

The soil sampling programs for Areas 5 and 8 were developed based on the work performed to attain the conditional No Further Action (NFA) determination for the footprint of the WCF. This study is documented in the Broadbent and Associates Report dated November 2004 (Broadbent and Associates 2004). By letter dated November 29, 2004, NDEP presented its finding that no further action for the remediation of soils is warranted within the footprint of the WCF, subject to the qualifications that the site will remain as an active industrial facility and that the construction of the WCF would not preclude the remediation of groundwater beneath the plant site and, if it is found that groundwater is impacted by these soils, this issue would be addressed separately.

The Areas 5 and 8 investigations utilized the same methods as the 2004 investigation with the exception that the analytical list for soil samples was expanded to include polyaromatic hydrocarbon compounds (PAHs), PCB congeners, dioxin/dibenzofuran compounds and asbestos as described below.

2.2 Work Performed

Soil samples were collected from the Area 5 and Area 8 locations shown on Figure 2-1. All samples and chemical analyses were conducted in accordance with the Conceptual Site Model Supplemental Investigation Work Plan (Work Plan) submitted to NDEP on December 2, 2013 and approved (with the condition that additional work may be required) by letter dated December 6, 2013. The Work Plan incorporated by reference the TIMET Site-Wide Generic

Sampling and Analysis Plan (SAP) (TIMET 2007a), which contains field sampling protocols and the Quality Assurance Project Plan.

2.2.1 Analytical Parameters

Soil samples were analyzed for broad analytical suites of chemicals. These include VOCs, PAHs, anions, metals (including all CAM 17 metals), radionuclides (uranium-238 decay series, thorium-232 decay series, gross alpha radiation and gross beta radiation), PCB congeners, dioxins, dibenzofurans and asbestos. These analyses include several additions to analytical programs previously utilized for site investigations. PCB congeners were added to the analytical list due to concerns with potential inadvertent generation in the TIMET manufacturing process. Dioxins, dibenzofurans and asbestos were added to the analytical list primarily due to the documented presence of these compounds/materials in BMI Common Areas soils (e.g., Beta Ditch).

Note that Geotechnical & Environmental Services (GES), under contract with the GEl Consultants conducted the asbestos surface soil sampling at Areas 5 and 8 on November 18, 2013. As specified in the Work Plan, sampling was conducted in accordance with SOP-12- Surface Soil Sampling for Asbestos from Basic Remediation Company Standard Operating Procedures BMI Common Areas, Clark County, Nevada.

2.2.2 Sampling Plan

2.2.2.1 Area 5

Surface Soil Samples FM-SS-1, FM-SS-2, FM-SS-3 and FM-SS-4 (November 2013):

As discussed in Section 1.2.2, in 2005 the waste materials constituting Francy's Mountain were removed and disposed off-site. Removal was completed to the pre-existing grade and no endpoint samples were collected. Potential contaminants primarily include metals, anions, and radionuclides. Four surface soil samples were collected from the area as shown on Figure 6-1. As indicated in Table 6-1, all samples were analyzed for metals, anions, radionuclides, and PCB congeners. In addition, dioxins/furans, PAHs and asbestos were analyzed for two samples.

Note: The samples from Francy's Mountain were collected in November 2013. These sample locations were excavated in January-February 2014 (see Section 1.2.2).

Soil Borings FM-B-1 and FM-B-2 (December 2013):

Soil borings FM-B-1 and FM-B-2 were drilled using a hollow stem auger drilling rig. These borings, located as shown on Figure 2-1, were installed to assess soil conditions in the upper 16 feet of soil below the base of the former Francy's Mountain. In each boring, soil samples were collected continuously from 2-foot intervals by driving a split-spoon sampler ahead of the auger flights. All samples were screened for radiation using a Ludlum alpha-beta-gamma detector

(Ludlum meter). Both borings were advanced to a depth of 16 feet below ground surface (bgs). No stained or visibly impacted soils were observed in either boring. No radiation levels above background were measured (see Section 3.2).

Samples from these borings were submitted for chemical analyses as follows (see tables presented in Section 3 for analyte lists):

- 0 to 2 feet depth analyzed for anions, metals and radionclides
- 2 to 4 feet depth analyzed for anions, metals and radionuclides
- 13 to 15 feet depth analyzed for anions, metals and radionuclides

Note that the 0-2 foot depth horizon was subsequently removed during the 2014 excavation.

Soil Borings DD-B-4, DD-B-5, DD-B-6, DD-B-7, DD-B-8 and DD-B-9 (November and December 2013):

Soil borings DD-B-4, DD-B-5, DD-B-6, DD-B-7, DD-B-8 and DD-B-9, drilled as described above and located as shown on Figure 2-1, were installed to characterize soils beneath the drainage ditches located in Area 5. All samples were screened for radiation using a Ludlum meter. The borings were advanced to a depth of 16 feet below ground surface (bgs). No stained or visibly impacted soils were observed in the borings. No radiation levels above background were measured (see Section 3.2).

Samples from each boring were selected for chemical analyses as follows (see tables presented in Section 3 for analyte lists):

- Soil Boring DD-B-4:
    - 0-0.5 feet bgs analyzed for anions, metals, radionuclides, PCB congeners, dioxins/dibenzofurans, PAHs and asbestos
    - 5.5-10.5 feet bgs analyzed for anions, metals, and radionuclides
- Soil Boring DD-B-5:
    - 0-0.5 feet bgs analyzed for anions, metals and PCB congeners
    - 9-14 feet bgs analyzed for anions and metals
- Soil Borings DD-B-6 and DD-B-7:

- 0-0.5 feet bgs analyzed for anions, metals and PCB congeners
- 10-15 feet bgs analyzed for anions and metals

- Soil Borings DD-B-8 and DD-B-9:
  - 0-0.5 feet bgs analyzed for anions, metals, radionuclides, PCB congeners, dioxins/dibenzofurans, PAHs and asbestos
  - 10-15 feet bgs analyzed for anions, metals, and radionuclides

2.2.2.2 Area 8

Soil Borings NE-B-1, NE-B-2, and NE-B-3(November 2013):

Soil borings NE-B-1, NE-B-2 and NE-B-3, drilled as described above and located as shown on Figure 2-1, were installed to characterize surface and subsurface soils in Area 8 (referred to as the "northeast" area of the site in the CSM report). All samples were screened for radiation using a Ludlum meter. The borings were advanced to a depth of 16 feet below ground surface (bgs). No stained or visibly impacted soils were observed in the borings. No radiation levels above background were measured (see Section 3.2).

Samples from each boring were selected for chemical analyses as follows (see tables presented in Section 3 for analyte lists):

- Soil Boring NE-B-1:
  - 0-0.5 feet bgs analyzed for anions, metals and PCB congeners
  - 8-13.5 feet bgs analyzed for anions and metals
- Soil Boring NE-B-2:
  - 0-0.5 feet bgs analyzed for anions, metals and PCB congeners
  - 10-15 feet bgs analyzed for anions and metals
- Soil Boring NE-B-3:
  - 0-0.5 feet bgs analyzed for anions, metals, radionuclides, PCB congeners, dioxins/dibenzofurans, PAHs and asbestos

- 10-15 feet bgs analyzed for anions, metals, and radionuclides

Soil Borings NE-B-6 and NE-B-7(March 2014):

Soil borings NE-B-6 and NE-B-7, drilled as described above and located as shown on Figure 2-1, were installed to obtain additional characterization of surface and subsurface soils in Area 8. All samples were screened for radiation using a Ludlum meter.

Both borings were advanced to a depth of 16 feet below ground surface (bgs). No stained or visibly impacted soils were observed in either boring. Therefore, samples were collected from predetermined depths to represent the soil column being investigated. Three samples from each boring were selected for chemical analyses as follows:

- 0-0.5 feet bgs: Analyzed for anions, metals, VOCs, polyaromatic hydrocarbons (PAHs), radionuclides, PCB congeners, dioxins/dibenzofurans.
- 5-6.5 feet bgs: Analyzed for anions, metals, VOCs, PAHs, radionuclides, PCB congeners, dioxins/dibenzofurans.
- 10-11.5 feet bgs: Analyzed for anions, metals and VOCs.

Soil Boring DD-B-10 (December 2013):

Soil boring DD-B-10, drilled as described above and located as shown on Figure 2-1, was installed to characterize soils beneath a drainage ditch located in Area 8. All samples were screened for radiation using a Ludlum meter. The boring was advanced to a depth of 16 feet below ground surface (bgs). No stained or visibly impacted soils were observed in either boring. No radiation levels above background were measured (see Section 3.2).

Samples from DD-B-10 were selected for chemical analyses as follows (see tables presented in Section 3 for analyte lists):

- 0-0.5 feet bgs analyzed for anions, metals and PCB congeners
- 10-15 feet bgs analyzed for anions and metals

Soil Sampling During Alpha Line Repair:

During July-August 2014, discolored soil was observed during TIMET excavations adjacent to the alpha line (performed as part of pipeline repair). A total of 173 tons of discolored soil was excavated and disposed off-site at a permitted off-site facility.

A small vein of discolored soils was left in place (beneath the Alpha Bypass Line) to the north; the vertical (discolored) soil profile tapered significantly from north to south and is believed to extend less than 20 feet to the south. One grab sample (AL-1) was collected from the base of the excavation (5 feet below the pre-existing grade) and a second sample (AL-2) was collected from soil left in place beneath the pipeline.

These samples were analyzed for anions, metals, VOCs, the full suite of semi-volatile organic compounds (SVOCs), radionuclides, PCB congeners, dioxins/dibenzofurans.

3. Results and Comparison to Screening Levels

3.1 Data Usability

All analytical results for the samples obtained as described in Section 2.0 have been validated. The Data Validation Summary Report (DVSR) has been submitted to NDEP in Attachment 6 to the Conceptual Site Model Report (GEI, July 11, 2014). The DVSR for samples collected in July 2014 during the alpha line repair was submitted to NDEP in a report dated December 3, 2014. These DVSRs have not yet been approved by NDEP. Laboratory reports are included in Appendix A.

The data obtained from the sampling activities described in Section 2.0 are used herein for characterization of chemical presence in soils and comparison of the measured levels with risk-based screening levels. As such, the data generated is being used for qualitative risk assessment and an assessment of data usability (DU) is appropriate. NDEP has issued specific guidance for assessing DU for environmental investigations at the BMI Complex (September 1, 2010).

NDEP's DU evaluation guidance is based on the USEPA's established framework for risk assessors for making decisions about the minimum quality and quantity of environmental analytical data that are sufficient to support HRA-based decisions (USEPA, 1992a). The USEPA DU guidance provides an explicit set of data quality criteria that are used to determine the usability of site characterization data in the HRA process. These USEPA criteria include:

- **Criterion I — Reports:** Confirmation that report(s) relied upon are complete and appropriate for use in the HRA.
- **Criterion II — Documentation:** Confirmation that each analytical result is associated with a specific sample location and that the appropriate sampling procedure is documented.
- **Criterion III — Data Sources:** Confirmation that the analytical methods used are appropriate to identify the chemicals of potential concern for the media of interest.
- **Criterion IV — Analytical Methods and Detection Limits:** Confirmation that analytical methods appropriately identify the chemical form or species and that the sample detection limit is at or below a concentration appropriate for screening.
- **Criterion V — Data Review:** Confirmation that the quality of analytical results is assessed by a professional knowledgeable in field collection procedures and

analytical chemistry and that data quality are adequate to estimate exposure concentrations.

- **Criterion VI — Data Quality Indicators:** Documentation that sampling and analysis data quality indicators (including precision, accuracy, holding time, and reproducibility) are evaluated using criteria specific to the risk assessment.

These criteria are discussed in the following subsections.

3.1.1 Usability Criterion I - Reports

The data used in this Request for Administrative Closure were submitted in their entirety to NDEP in the report titled "Conceptual Site Model Report" and dated July 11, 2014. The Data Validation Summary Report (DVSR) was submitted to NDEP as an attachment (Attachment 6) to the Conceptual Site Model Report. The Conceptual Site Model report has not been approved by NDEP. Therefore, the data used in this Request for Administrative Closure, despite being previously submitted to NDEP, is independently evaluated with respect to usability herein.

3.1.2 Usability Criterion II - Documentation

Each analytical result used in this Request for Administrative Closure is associated with a specific sample location. Sampling procedures were conducted as documented in the NDEP-approved Work Plan (GEI, 2013). All soil data used in this document are presented on Table 3-1 through Table 3-8. Sample locations are included in the data tables and are shown on Figure 2-1. As such, Criterion II has been met.

3.1.3 Usability Criterion III – Data Sources

As presented in the Conceptual Site Model Report, and discussed above in Section 2.0, soil samples were analyzed for broad analytical suites of chemicals. These include VOCs, PAHs, SVOCs, anions, metals (including all CAM 17 metals), radionuclides (uranium-238 decay series, thorium-232 decay series, gross alpha radiation and gross beta radiation), PCB congeners, dioxins, dibenzofurans and asbestos. Past and present site operations were reviewed in the following reports: Phase I Environmental Conditions Assessment (ECA) Report (Law Engineering, Inc. 1993); Final Phase II Environmental Conditions Investigation (ECI) Report (Tetra Tech 1998); and Draft ECI Addendum Report (Tetra Tech, 1999). The analytical program for Areas 5 and 8 as described herein is sufficiently inclusive of potential chemical contaminants released at the site based on these reports.

Several additions were made to analytical programs previously conducted at the site. PCB congeners were added to the analytical list due to concerns with potential inadvertent generation in the TIMET manufacturing process. Dioxins, dibenzofurans and asbestos were added to the analytical list primarily due to the documented presence of these compounds/materials in BMI Common Areas soils (e.g., Beta Ditch). With these additions, the analytical program sufficiently captured potential chemical contaminants at the site. As such, Criterion III has been met.

3.1.4 Usability Criterion IV – Analytical Methods and Detections Limits

The soil samples collected were analyzed by TestAmerica by the following methods:

- VOCs by gas chromatography/mass spectrometry (GC/MS) by U.S. Environmental Protection Agency (EPA) Method 8260C and revisions (EPA, 2006).
- PAH compounds by gas chromatography/mass spectrometry (GC/MS) by U.S. Environmental Protection Agency (EPA) Method 8270D and revisions (EPA, 2007).
- Total metals by inductively coupled plasma (ICP) by EPA Method 6010C, ICP/mass spectrometer (ICP/MS) by EPA Method 6020A, and cold vapor atomic absorption (CVAA) for mercury by EPA Methods 7470A/7471A (EPA, 2007).
- Chlorinated Biphenyl Congeners by high resolution GC/high resolution MS (HRGC/HRMS) by EPA Method 1668C.
- Polychlorinated dibenzodioxins and polychlorinated dibenzofurans by HRGC/HRMS by EPA Method 8290.
- Gamma Spectroscopy; ALS SOPs 713 and 739.
- Gamma Spectroscopy; EPA 901.1.
- Isotopic Thorium by Alpha Spectroscopy, ALS SOPs 773, 776, 777, 736, and 714.
- Isotopic Thorium by Alpha Spectroscopy, TA Lab SOP A-01-R.
- Isotopic Uranium by Alpha Spectroscopy, ALS SOPs 736, 773, 776, 778, and 714.
- Isotopic Uranium by Alpha Spectroscopy, TA Lab SOP A-01-R.
- Radium-226 by Radon Emanation, ALS SOPs 783 and 736.
- Radium-226 by Gas-Flow Proportional Counting (GFPC), EPA 903.
- Radium-228 by GFPC, EPA 904.
- Gross Alpha and Gross Beta by GFPC, EPA 900.
- Asbestos using the Draft Modified Elutriator Method for the Determination of Asbestos in Soils and Bulk Material Method Revision 1 (EPA 540-R-97-028 -Superfund Method).

Detection limits have been confirmed to be less than appropriate human health screening levels, and appropriate USEPA laboratory methods were employed. As such, Criterion IV has been met.

In one or more samples detection limits for two VOCs and four metals exceed the Leaching Based Comparison levels (LBCL) dilution attenuation factor (DAF) 1 values (see Section 3.3 below for explanation). This occurred for 1,1,2,2-tetrachloroethene (LBCL DAF1 value of 0.0002 mg/kg versus detection limits ranging from 0.00038 to 0.00049 mg/kg), methylene chloride (LBCL DAF1 value of 0.001 mg/kg versus detection limits ranging from 0.0015 to 0.0019 mg/kg), antimony (LBCL DAF1 value of 0.3 mg/kg versus estimated detection limits ranging from 2.8 to 5.2 mg/kg), cadmium (LBCL DAF1 value of 0.4 mg/kg versus detection limits ranging from 0.32 to 2.6 mg/kg), selenium (LBCL DAF1 value of 0.3 mg/kg versus detection limits ranging from 1.3 to 7.8 mg/kg) and thallium (LBCL DAF1 value of 0.4 mg/kg versus detection limits ranging from 0.68 to 2.6 mg/kg). The LBCL DAF1 values are not used herein to represent potential exposure point concentrations and the exceedance by the detection limits has no relevance to data usability in this report and does not constitute data gaps. If future evaluations include assessment of direct exposure to on-site unsaturated zone pore water, the limitations associated with detection limits above DAF1 will be re-visited.

3.1.5 Usability Criterion V – Data Review

The quality of analytical results was assessed by a GEI professional knowledgeable in field collection procedures and analytical chemistry and the data quality (with appropriate qualifiers as discussed in Section 3.1.6) are determined to be adequate to estimate exposure concentrations. The DU evaluation was conducted by a GEI chemist who is qualified and experienced in the DU process. As such, Criterion V has been met.

3.1.6 Usability Criterion VI – Data Quality Indicators

The data quality for COPCs is summarized below. The summary focuses on COPCs in which the results of the quality control/quality assurance results have the potential to underestimate exposures.

3.1.6.1 VOCs

Initial calibration relative response factors (RRF) for acetonitrile and ethanol were lower than the required limits as defined by EPA Functional Guidelines for Organic Review (EPA, 2008). Nondetect results for acetonitrile and ethanol were therefore qualified as rejected (R) and are not used for comparison with risk-based criteria.

There is no evidence that acetonitrile and ethanol are site contaminants and the rejected results do not constitute a significant data gap.

For the sample from soil boring NE-B-7 collected from 10 to 11.5 feet bgs, the VOC internal standard recoveries were less than 25 percent and the associated nondetect compound results were qualified as rejected and are not used for comparison with risk-based criteria. However, for the other samples collected from this boring (0-0.5 feet and 5-6.5 feet depth intervals), results were acceptable (except as noted above for ethanol and acetonitrile) and showed no significant VOC detections. The rejected data from the 10 to 11.5 feet depth interval from boring NE-B-7 does not constitute a data gap.

No results for VOCs were qualified as having a low bias.

3.1.6.2 SVOCs and PAHs

No results for SVOCs (including PAHs) were rejected or qualified as having a low bias.

3.1.6.3 Anions

Sample results qualified as estimated with a low bias for anions were as follows:

Sample	Depth (ft)	Analyte(s)	Reason for Low Bias
FM-SS-1	0-0.5	Nitrate	Matrix spike or control sample recovery exceeded
FM-SS-2	0-0.5	Chloride, Nitrate, Sulfate	Matrix spike or control sample recovery exceeded
FM-SS-3	0-0.5	Chloride, Nitrate, Sulfate	Matrix spike or control sample recovery exceeded
FM-SS-4	0-0.5	Chloride, Nitrate, Sulfate	Matrix spike or control sample recovery exceeded
FM-B-1	0-2	Chloride, Nitrate, Sulfate	Holding time exceedance
FM-B-1	2-4	Chloride, Nitrate, Sulfate	Holding time exceedance
FM-B-1	13-15	Nitrate, Sulfate	Holding time exceedance
FM-B-2	0-2	Chloride, Nitrate, Sulfate	Holding time exceedance
FM-B-2	2-4	Nitrate, Sulfate	Holding time exceedance
FM-B-2	13-15	Nitrate, Sulfate	Holding time exceedance

These samples were all collected at Francy's Mountain and all soils above a depth of approximately 2 feet have been removed and disposed off-site. Results from samples collected at depths below 2 feet, though qualified as biased low, exhibited relatively low concentrations and the low bias for these samples does not present a significant data gap.

3.1.6.4 Metals

Area 5 sample results qualified as estimated with a low bias for metals were as follows:

Location	Depth (ft)	Analyte(s)	Reason for Low Bias
DD-B-4	0-0.5	Antimony, Niobium, Selenium	Matrix spike or control sample recovery exceeded
DD-B-4	5.5-10.5	Antimony, Selenium	Matrix spike or control sample recovery exceeded
DD-B-5	0-0.5	Antimony, Barium	Matrix spike or control sample recovery exceeded
DD-B-5	9-14	Antimony, Barium	Matrix spike or control sample recovery exceeded
DD-B-6	0-0.5	Antimony, Niobium, Selenium	Matrix spike or control sample recovery exceeded
DD-B-6	10-15	Antimony, Selenium	Matrix spike or control sample recovery exceeded
DD-B-7	0-0.5	Antimony, Barium, Niobium	Matrix spike or control sample recovery exceeded
DD-B-7	10-15	Antimony, Barium, Niobium	Matrix spike or control sample recovery exceeded
DD-B-8	0-0.5	Antimony, Niobium	Matrix spike or control sample recovery exceeded
DD-B-8	10-15	Antimony	Matrix spike or control sample recovery exceeded
DD-B-9	0-0.5	Antimony, Niobium, Selenium	Matrix spike or control sample recovery exceeded
DD-B-9	10-15	Antimony, Selenium	Matrix spike or control sample recovery exceeded
FM-SS-1	0-0.5	Antimony, Niobium, Potassium, Vanadium	Matrix spike or control sample recovery exceeded

Location	Depth (ft)	Analyte(s)	Reason for Low Bias
FM-SS-2	0-0.5	Antimony, Barium, Niobium, Vanadium	Matrix spike or control sample recovery exceeded
FM-SS-3	0-0.5	Antimony, Barium, Niobium, Potassium, Vanadium	Matrix spike or control sample recovery exceeded
FM-SS-4	0-0.5	Antimony, Barium, Niobium, Potassium, Vanadium	Matrix spike or control sample recovery exceeded
FM-B-1	0-2	Antimony, Beryllium, Manganese, Niobium, Selenium, Vanadium	Matrix spike or control sample recovery exceeded
FM-B-1	2-4	Antimony, Beryllium, Manganese, Selenium, Vanadium	Matrix spike or control sample recovery exceeded
FM-B-1	13-15	Antimony, Beryllium, Manganese, Niobium, Selenium	Matrix spike or control sample recovery exceeded
FM-B-2	0-2	Antimony, Beryllium, Manganese, Niobium, Selenium, Vanadium	Matrix spike or control sample recovery exceeded
FM-B-2	2-4	Antimony, Beryllium, Manganese, Niobium, Selenium, Vanadium	Matrix spike or control sample recovery exceeded
FM-B-2	14-15	Antimony, Beryllium, Manganese, Selenium, Vanadium	Matrix spike or control sample recovery exceeded

Area 8 sample results qualified as estimated with a low bias for metals were as follows:

Location	Depth (ft)	Analyte(s)	Reason for Low Bias
DD-B-10	0-0.5	Antimony	Matrix spike or control sample recovery exceeded
DD-B-10	10-15	Antimony, Niobium	Matrix spike or control sample recovery exceeded
NE-B-1	0-0.5	Antimony, Niobium	Matrix spike or control sample recovery exceeded
NE-B-1	8.5-13.5	Antimony, Niobium	Matrix spike or control sample recovery exceeded
NE-B-2	0-0.5	Antimony	Matrix spike or control sample

Location	Depth (ft)	Analyte(s)	Reason for Low Bias
			recovery exceeded
NE-B-2	10-15	Antimony, Niobium	Matrix spike or control sample recovery exceeded
NE-B-3	0-0.5	Antimony	Matrix spike or control sample recovery exceeded
NE-B-3	10-15	Antimony, Niobium	Matrix spike or control sample recovery exceeded
NE-B-6	0-0.5	Antimony	Matrix spike or control sample recovery exceeded
NE-B-6	5-6.5	Antimony, Niobium	Matrix spike or control sample recovery exceeded
NE-B-6	10-11.5	Antimony, Niobium	Matrix spike or control sample recovery exceeded
NE-B-7	0-0.5	Antimony	Matrix spike or control sample recovery exceeded
NE-B-7	5-6.5	Antimony, Niobium	Matrix spike or control sample recovery exceeded
NE-B-7	10-11.5	Antimony, Niobium	Matrix spike or control sample recovery exceeded
AL-1	4-4.5	Antimony, Barium, Niobium, Copper, Vanadium	Matrix spike or control sample recovery exceeded
AL-2	8-8.5	Antimony, Barium, Niobium, Copper, Vanadium	Matrix spike or control sample recovery exceeded

The low biased results for these metals are discussed further in Section 3.3.2.

3.1.6.5 Radionuclides

No data for radionuclides were rejected or determined to have a low bias.

3.1.6.6 PCB Congeners

No data for PCB congeners were rejected or determined to have a low bias.

3.1.6.7 Dioxins and Dibenzofurans

No data for dioxins and dibenzofurans were rejected or determined to have a low bias.

3.1.6.8 Asbestos

No data for asbestos were rejected.

3.1.7 Data Usability Conclusions

The USEPA Data Usability Criteria have been met. Except for the rejected and low bias data identified above, all data is considered acceptable for characterization of chemical presence in soils and comparison of the measured levels with risk-based screening levels.

3.2 Results

3.2.1 Visual Observation and Field Instrument Screening

Soil boring logs are included in Appendix B. As described in Section 2.0, all samples from soil borings were screened for radiation using a Ludlum meter. No radiation levels above background were measured.

No staining or other visually apparent impacts were observed in any soil borings. Surface soil samples from Francy's Mountain exhibited discoloration, however these soils were removed for off-site disposal in January-February 2014.

As noted in Section 1.2.3, during July-August 2014, discolored soil was observed during TIMET excavations adjacent to the alpha line (performed as part of pipeline repair). Approximately 173 tons of discolored soil were disposed off-site at a permitted facility. A small vein of discolored soils was left in place (beneath the Alpha Bypass Line) to the north. The vertical (discolored) soil profile tapered significantly from north to south and (based on the taper) is believed to extend less than 20 feet to the south. Discolored soils, extending to the south, were not observed in excavations completed 10 feet on either side (east and west), of the soils left in place.

Other than the damaged section of pipe that was replaced, the remainder of the alpha line exposed during this maintenance appeared to be in good condition. Groundwater downgradient of this area will continue to be monitored for potential impacts.

3.2.2 Analytical Results

Validated analytical results for the soil samples collected from Areas 5 and 8 are presented in Tables 3-1 through 3-7.

3.3 Comparison to Screening Levels

The comparison levels used herein are the NDEP Basic Comparison Levels (BCLs) for industrial or outdoor worker exposures, and Leaching Based Comparison Levels (LBCLs) derived with a dilution attenuation factor (DAF) equal to 20 (DAF20).

The results are also compared to LBCLs derived using a DAF of 1 (DAF1). The LBCL DAF1 values are included herein to reflect a scenario where the soil concentration measured in the unsaturated zone is considered to occur within the saturated zone in an area of zero groundwater flow.

3.3.1 Anions

A total of 16 surface soil and 22 subsurface (the two 0-2 foot samples are discussed as subsurface) soil samples were collected from Areas 5 and 8 and analyzed for anions. Anions detected in Area 5 and Area 8 soil samples are nitrate, chloride, and sulfate (Table 3-1). There are no BCLs for chloride and sulfate. The BCL for nitrate was not exceeded in any sample. The values for data exhibiting potential low bias were several orders of magnitude below the BCL and the low bias qualification does not represent a significant data gap.

The LBCL DAF20 value for nitrate was not exceeded in any samples.

The LBCL DAF1 value for nitrate of 7 mg/kg was exceeded in 10 samples.

3.3.2 Metals

A total of 16 surface soil and 22 subsurface soil samples were collected from Areas 5 and 8 and analyzed for metals (Table 3-2). Niobium exceeded the BCL for industrial or outdoor worker exposures (114 mg/kg) in two surface soil samples: niobium measured at 160 J- (estimated with low bias) mg/kg in boring DD-B-4 and at 300 J- mg/kg at FM-SS-3; and in the 0-2 foot sample from boring FM-B-2 (200 J- mg/kg). Note that the 2014 Francy's Mountain excavation removed samples FM-SS-3 and FM-B-2.

Measured metals concentrations did not exceed the BCLs for industrial or outdoor worker exposures (using the noncancer endpoint BCL of 283 mg/kg for arsenic) in any other surface or subsurface sample. The cancer-based BCL for arsenic, which at 1.77 mg/kg is below the mean

background level (4.13 mg/kg, TIMET 2007b) was exceeded in 25 of the 26 samples. The maximum detected concentration of arsenic is 6.2 mg/kg.

The LBCL DAF 20 was exceeded for aluminum, iron and manganese in all samples. Estimated concentrations (J-qualified) of cobalt in 10 surface soil and 7 subsurface soil samples exceeded the LBCL DAF20 (maximum measured concentration of 19 J mg/kg versus the LBCL DAF20 of 9.9 mg/kg). Niobium exceeded the LBCL DAF20 in 10 surface soil samples (4 of which were removed in the 2014 excavation), 1 sample from the 0-2 foot depth interval (which was also removed in the 2014 excavation), and in sample AL-2 collected from 2-2.5 feet depth.

The LBCL DAF1 values were exceeded for a number of metals as shown on Table 3-2.

Antimony, while not detected in any sample, exhibited a low bias ("UJ-") qualified detection limit. Antimony is not known to have been released at the site and was not detected in any soil sample. The low bias in reported detection limit for antimony does not represent a significant data gap.

Low bias was also indicated for beryllium (6 of 38 samples), barium (9 of 38 samples), copper (2 of 38 samples), manganese (6 of 36 samples), niobium (24 of 38 samples), potassium (3 of 38 samples), selenium (12 of 38 samples), and vanadium (11 of 38 samples). Sufficient unqualified data exists for these metals and the low bias does not represent a significant data gap.

3.3.3 Radionuclides

Radionuclides are naturally occurring in site soils and the rutile ore material used to manufacture titanium. Naturally occurring radionuclides present in the rutile ore include primarily uranium (238U and 235U decay series), thorium (232Th decay series), and 40K. Processing of rutile ore to produce and purify titanium results in removal and concentration of other components of rutile ore such as metals and radionuclides in process waste streams.

A total of 10 surface soil and 14 subsurface soil samples were analyzed for radioisotopes (Table 3-3). The primary radionuclides present in soil above the outdoor industrial worker BCLs are 228Th, 226Ra and 228Ra. The BCLs for these radionuclides are exceeded at all soil samples obtained in Areas 5 and 8 (Table 3-3). In addition, 230Th, 235U and 238U exceeded the BCLs in at least one sample.

Surficial soil samples from Francy's Mountain exhibited the highest levels of radionuclides, in some cases exceeding the mean background levels (see below) by more than an order of magnitude. These sample locations were removed during the 2014 excavation program (see Section 1.2.2).

In all other soil samples collected (i.e., soil remaining in place), the results for radionuclides exceeding the BCLs are generally close to (within the same order of magnitude) or below the mean background levels (TIMET 2007b) of: 1.69 pCi/g for 228Th ; 1.13 pCi/g for 226Ra; 1.99 pCi/g for 228Ra; 3.01 pCi/g for 230Th; 0.0901 pCi/g for 235U; and 1.08 pCi/g for 238U.

3.3.4 VOCs

Two surface soil and 6 subsurface soil samples were analyzed for VOCs. These samples were all collected from Area 8. Analytical results for VOCs are presented in Table 3-4. The BCL, LBCL DAF20, and LBCL DAF1 values were not exceeded in any sample.

Detection limits for two non-detected VOCs exceed the LBCL DAF1 values (see Section 3.1.4). This occurred for 1,1,2,2-tetrachloroethene (LBCL DAF1 value of 0.0002 mg/kg versus detection limits ranging from 0.00038 to 0.00049 mg/kg), methylene chloride (LBCL DAF1 value of 0.001 mg/kg versus detection limits ranging from 0.0015 to 0.0019 mg/kg).

3.3.5 SVOCs Compounds

A total of 5 surface soil and 2 subsurface soil samples were analyzed for PAH compounds (Table 3-5). PAH compounds were detected in only one sample—the 0-0.5 foot surface soil sample at boring NE-B-6 located in the central portion of Area 8. In this sample, one PAH compound exceeded the BCL (benzo(a)pyrene measured at 0.68 mg/kg versus a BCL of 0.23 mg/kg).

Two samples (AL-1 and AL-2) collected from the base and wall of the alpha line excavation, respectively, were analyzed for the complete list of SVOCs. These results are shown on Table 3-6. BCLs were not exceeded in these 2 samples.

3.3.6 PCB Congeners

A total of 16 surface soil and 2 subsurface soil samples were analyzed for PCB congeners. Analytical results for PCB congeners are presented in Table 3-7. Total PCBs (lab calculated) exceeded the BCL of 0.86 mg/kg in three samples (1.6 j+ [estimated with high bias] mg/kg measured in the surficial sample from boring DD-B-4 located within a drainage ditch in Area 5, 5.3 J mg/kg in sample AL-1 and 0.97J mg/kg in AL-2). The BCL was not exceeded in any other samples.

3.3.7 Dioxins and Dibenzofurans

A total of 8 surface soil and 4 subsurface soil samples were analyzed for dioxins and dibenzofurans. Analytical results are presented in Table 3-8. The BCL for outdoor industrial worker exposed to a mixture of dioxins and dibenzofurans expressed as Toxic Equivalency (TEQ) is 0.001 mg/kg.

The TEQ values are listed in Table 3-7. The BCL was not exceeded in any sample.

3.3.8 Asbestos

There are no BCLs for asbestos in soil. At the adjacent NERT site, risk-based asbestos screening levels were developed for use in planning remediation activities including excavation of the portion of the Beta Ditch on the NERT site. The screening levels developed by NERT are as follows (Tronox LLC, July 13, 2010):

- Long chrysotile fibers: greater than 5
- Long amphibole fibers: 1 or more

These levels are used as comparison criteria herein.

Asbestos was analyzed in 6 surface soil samples collected from Areas 5 and 8. Asbestos results are presented in Table 3-9. No asbestos fibers were reported in 5 of the 6 samples. Asbestos fibers below the comparison criteria were present in the sample from location DD-B-9 (one long chrysotile fiber was reported in this sample).

3.4 Data Gaps

3.4.1 Data Quality

Several metals results were indicated to potentially have a low bias (see Section 3.1.6). As discussed in Section 3.3.2, these qualifications do not represent a significant data gap.

Nondetect results for acetonitrile and ethanol were qualified as rejected (R) due to matrix interference. As discussed in Section 3.1.6, there is no evidence that acetonitrile and ethanol are site contaminants and the rejected results do not constitute a data gap.

Detection limits for PCE, methylene chloride and antimony exceed the LBCL DAF1 values. The LBCL DAF1 values are not used herein to represent potential exposure point concentrations and the marginal exceedance by the detection limits does not constitute a data gap.

3.4.2 Hexavalent Chromium

The chromium present in rutile ore and the CSD solids occurs in the trivalent state. As such, the investigations have focused on trivalent chromium and the presence of hexavalent chromium in soils has not been investigated in Areas 5 and 8. Trivalent chromium can be oxidized in the aqueous environment if the redox conditions are sufficiently oxidizing. Therefore, it is not impossible that some trivalent chromium present in TIMET soils could oxidize to the hexavalent species.

Hexavalent chromium is analyzed as part of the TIMET groundwater monitoring program because it is a known groundwater contaminant at the adjacent NERT facility. The groundwater monitoring results consistently show the highest concentrations on the TIMET site occur along the northwest boundary of the site, suggesting the primary source of hexavalent chromium is the NERT site. Further, the hexavalent chromium plume generally mimics the perchlorate plume (also a NERT groundwater contaminant with no known source at the TIMET facility).

Isoconcentration contour maps for hexavalent chromium and perchlorate developed from data collected in 2013-2014 are included in Appendix C. The groundwater analytical data produced during these sampling events are summarized and evaluated in Data Validation Summary Reports that were submitted to the NDEP on February 10, 2014, for the 2nd Semester 2013 sampling event, and September 11, 2014, for the 1st Semester 2014 sampling event. Comparison of these maps suggests hexavalent chromium has migrated onto TIMET property from the NERT site.

While there is no evidence that TIMET is a source of hexavalent chromium, the possibility that the TIMET facility is a source cannot be ruled out based on the available data. This constitutes a data gap. The data gap will be addressed by continuing to monitor TIMET groundwater for hexavalent chromium. After NERT attains effective control of the hexavalent chromium migration from its site, the hexavalent chromium concentrations on the TIMET site would be expected to decline. If site conditions change or a hexavalent chromium source is discovered in the future, Areas 5 and 8 will be evaluated to determine if the exposure assessment included herein remains valid or if additional investigation is necessary.

3.4.3 Hexachlorobenzene

Hexachlorobenzene was analyzed for in two samples from Area 5 and Area 8, samples AL-1 and AL-2, both of which were non-detect for hexachlorobenzene. Hexachlorobenzene has been detected above its BCL in soils samples collected elsewhere at the TIMET property including discolored soil sampled from Area 9, the Beta Ditch, and in samples of the material present in the SW-1 Pond. The source of hexachlorobenzene measured in these samples is not known. A specific process or practice at the TIMET facility which could have released hexachlorobenzene has not been identified. While lacking evidence that TIMET is a source of hexachlorobenzene, the possibility that the TIMET facility is a source cannot be ruled out based on the available data. This constitutes a data gap. If site conditions change or a hexachlorobenzene source is discovered in the future, Areas 5 and 8 will be evaluated to determine if the exposure assessment included herein remains valid or if additional investigation is necessary.

3.4.4 Significance of Data Gaps to Area 5 and Area 8 Administrative Closure

The data gaps identified above do not affect this request for Administrative Closure of Areas 5 and 8. However, should future conditions change in a manner causing the North Site Cover System to become ineffective in preventing exposures, additional assessment of the presence of hexavalent chromium and hexachlorobenzene should be considered.

3.5 Exposure and Risk Considerations

The observations, field instrument screening, and analytical results from the surface soil samples and soil borings show that Area 5 and 8 soils remaining in place after the 2014 excavation of the Francy's Mountain footprint are generally below BCLs or close to or below background levels. The only exceedances of BCLs for outdoor industrial workers in remaining soils were ubiquitous exceedances in all soil samples for arsenic (cancer-based endpoint BCL), and the radionuclides 228Th, 226Ra and 228Ra; sporadic exceedances for 230Th, 235U and 238U; three exceedances of the BCL for total PCBs (maximum concentration of 5.3 J [estimated] mg/kg versus the BCL of 0.86 mg/kg); one exceedance of the BCL for benzo(a)pyrene (0.68 mg/kg versus the BCL of 0.83 mg/kg); and one exceedance of the BCL for niobium (160 J- [estimated with a low bias] mg/kg versus the BCL of 114 mg/kg).

With the cover systems in place, direct contact with soils does not occur and potential transport via wind and water erosion is prevented. Figures 3-1 through 3-4 show cross-sectional views across Areas 5 and 8 (the cross-section alignments are shown on Figure 2-1). These cross-sections show the sample collection depths, BCL exceedances, the 2014 excavation depths at Francy's Mountain and the details of the GCL cover system.

VOCs were generally not detected in soil indicating exposure via vapor emission from soils is not a complete pathway. Additionally, as described in Section 1.3, there are no occupied structures located in Areas 5 and 8.

4. Conclusions

The observations, field instrument screening and analytical results from the soil borings show that soils remaining in Areas 5 and 8 (after the 2014 excavation at Francy's Mountain) are generally below BCLs or close to or below background levels (with sporadic exceedances). Some naturally occurring metals, primarily aluminum, iron and manganese exceeded the LBCL DAF20 values. These soils remain in place below the north site cover system (GCL, covered by a minimum 12 inches of cover soils).

There are no complete exposure pathways for soils in Areas 5 and 8. Administrative Closure for soils in Areas 5 and 8 is recommended. The Administrative Closure would have the following conditions:

1. TIMET will implement a Management Plan for Site Soils as described in Section 1.3.2.

2. If site conditions change or previously unknown contaminants are discovered in the future, Areas 5 and 8 would be evaluated to determine if the exposure assessment used to grant Administrative Closure remains valid or if additional investigation is necessary.

3. The Administrative Closure pertains to soils and excludes underlying groundwater.

5. References

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NDEP 2010. "Supplemental Guidance for Assessing Data Usability for Environmental Investigations at the BMI Complex and Common Areas in Henderson, Nevada". September 1, 2010.

TIMET. 2007a. "Generic Site-Wide Sampling and Analysis Plan, Titanium Metals Corporation, Henderson, Nevada." October 29, 2007.

TIMET 2007b. "Background Shallow Soil Summary Report, BMI Complex and Common Area Vicinity, Titanium Metals Corporation Facility, Henderson, Nevada." Prepared for Basic Remediation Company and Titanium Metals Corporation. March 16, 2007.

Tables

Table 3-1. Soil Summary - General Chemistry
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

				Site Area	Area 5	Area 5	Area 5	Area 5	Area 5
				PSA ID (If Applicable)	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches
				Location	DD-B-4	DD-B-4	DD-B-5	DD-B-5	DD-B-6
				Sample Name	DD-B-4_SS	DD-B-4_SUB	DD-B-5_SS	DD-B-5_SUB	DD-B-6_SS
				Start Depth	0	5.5	0	9	0
				End Depth	0.5	10.5	0.5	14	0.5
				Depth Units	ft	ft	ft	ft	ft
				Sample Date	12/2/2013	12/2/2013	11/13/2013	11/13/2013	12/3/2013
				Parent Sample					
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20					
Chloride	mg/Kg				910 J	320 J	22	28	1200 J
Nitrate as Nitrogen	mg/Kg	100000	7	140	23 J	1.6 J	7.6	0.3 J+	4.1 J
Sulfate	mg/Kg				640 J	190 J	61	56	3700 J

Notes:
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+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-1. Soil Summary - General Chemistry
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

					Site Area	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches
					PSA ID (If Applicable)					
					Location	DD-B-6	DD-B-7	DD-B-7	DD-B-8	DD-B-8
					Sample Name	DD-B-6_SUB	DD-B-7_SS	DD-B-7_SUB	DD-B-8_SS	DD-B-8_SUB
					Start Depth	10	0	10	0	10
					End Depth	15	0.5	15	0.5	15
					Depth Units	ft	ft	ft	ft	ft
					Sample Date	12/3/2013	12/6/2013	12/6/2013	12/4/2013	12/4/2013
					Parent Sample					
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20						
Chloride	mg/Kg					120 J	530 J	54 J	2.2 J	17 J
Nitrate as Nitrogen	mg/Kg	100000	7	140		0.45 J	47 J	0.78 J	0.72 J	2.3 J
Sulfate	mg/Kg					110 J	530 J	58 J	17 J	57 J

Notes:
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+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-1. Soil Summary - General Chemistry
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

					Site Area	Area 5	Area 5	Area 5	Area 5	Area 5
					PSA ID (If Applicable)	DrainageDitches	DrainageDitches	FrancyMtn	FrancyMtn	FrancyMtn
					Location	DD-B-9	DD-B-9	FM-SS-1	FM-SS-1	FM-SS-2
					Sample Name	DD-B-9_SS	DD-B-9_SUB	FM-SS-1_SS	FM-SS-1_SS DUP	FM-SS-2_SS
					Start Depth	0	10	0	0	0
					End Depth	0.5	15	0.5	0.5	0.5
					Depth Units	ft	ft	ft	ft	ft
					Sample Date	12/3/2013	12/3/2013	11/20/2013	11/20/2013	11/20/2013
					Parent Sample				FM-SS-1_SS_11/20/13	
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20						
Chloride	mg/Kg				4500 J	190 J	1500	2000 J-	200 J-	
Nitrate as Nitrogen	mg/Kg	100000	7	140	100 J	1.9 J	4.6 J-	5.5 J-	1.6 J-	
Sulfate	mg/Kg				2200 J	280 J	4100	4400 J-	4400 J-	

Notes:
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+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
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U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-1. Soil Summary - General Chemistry
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

					Site Area	Area 5	Area 5	Area 5	Area 5	Area 5
					PSA ID (If Applicable)	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn
					Location	FM-SS-2	FM-SS-3	FM-SS-4	FM-B-1	FM-B-1
					Sample Name	FM-SS-2_SS DUP	FM-SS-3_SS	FM-SS-4_SS	FM-B-1 0-2	FM-B-1 13-15
					Start Depth	0	0	0	0	13
					End Depth	0.5	0.5	0.5	2	15
					Depth Units	ft	ft	ft	ft	ft
					Sample Date	11/20/2013	11/20/2013	11/20/2013	12/12/2013	12/12/2013
					Parent Sample	FM-SS-2_SS_11/20/13				
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20						
Chloride	mg/Kg					170 J-	2300 J-	150 J-	46 J-	16 J
Nitrate as Nitrogen	mg/Kg	100000	7	140		1.5 J-	3.9 J-	1.4 J-	1.4 J-	0.27 J-
Sulfate	mg/Kg					4000 J-	3800 J-	4200 J-	210 J-	80 J-

Notes:
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D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-1. Soil Summary - General Chemistry
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

					Site Area	Area 5	Area 5	Area 5	Area 5	Area 8
					PSA ID (If Applicable)	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn	Drainage Ditches
					Location	FM-B-1	FM-B-2	FM-B-2	FM-B-2	Alpha Line
					Sample Name	FM-B-1 2-4	FM-B-2 0-2	FM-B-2 13-15	FM-B-2 2-4	AL-1
					Start Depth	2	0	13	2	5
					End Depth	4	2	15	4	5.5
					Depth Units	ft	ft	ft	ft	ft
					Sample Date	12/12/2013	12/12/2013	12/12/2013	12/12/2013	7/30/2014
					Parent Sample					
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20						
Chloride	mg/Kg				32 J-	1000 J-	94 J	160 J	280	
Nitrate as Nitrogen	mg/Kg	100000	7	140	0.76 J-	0.65 J-	0.21 J-	0.34 J-	8.9	
Sulfate	mg/Kg				160 J-	1800 J-	67 J-	51 J-	230	

Notes:
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+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
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U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-1. Soil Summary - General Chemistry
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

					Site Area	Area 8	Area 8	Area 8	Area 8
					PSA ID (If Applicable)	Drainage Ditches	DrainageDitches	DrainageDitches	None
					Location	Alpha Line	Alpha Line	DD-B-10	DD-B-10
					Sample Name	AL-2	DD-B-10_SS	DD-B-10_SUB	DD-B-10_SUB DUP
					Start Depth	2	0	10	10
					End Depth	2.5	0.5	15	15
					Depth Units	ft	ft	ft	ft
					Sample Date	7/30/2014	12/4/2013	12/4/2013	12/4/2013
					Parent Sample				DD-B-10_SUB_12/04/13
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20					
Chloride	mg/Kg				8.1	8 J	130 J	120 J	
Nitrate as Nitrogen	mg/Kg	100000	7	140	0.59	0.91 J	7.3 J	6.8 J	
Sulfate	mg/Kg				76	15 J	200 J	180 J	

Notes:
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D = data reported from secondary dilution
J = estimated concentration
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U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-1. Soil Summary - General Chemistry
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

				Site Area	Area 8	Area 8	Area 8	Area 8
				PSA ID (If Applicable)	None	None	None	None
				Location	NE-B-1	NE-B-1	NE-B-1	NE-B-2
				Sample Name	NE-B-1_SS	NE-B-1_SUB	NE-B-1_SUB DUP	NE-B-2_SS
				Start Depth	0	8.5	8.5	0
				End Depth	0.5	13.5	13.5	0.5
				Depth Units	ft	ft	ft	ft
				Sample Date	11/22/2013	11/22/2013	11/22/2013	11/22/2013
				Parent Sample			NE-B-1_SS_11/22/13	
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20				
Chloride	mg/Kg				18000 J+	3700 J+	4000 J+	420 J+
Nitrate as Nitrogen	mg/Kg	100000	7	140	8.6 J+	9.3 J+	11 J+	2.9 J+
Sulfate	mg/Kg				220 J-	690 J-	610 J-	85 J-

Notes:
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D = data reported from secondary dilution
J = estimated concentration
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U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-1. Soil Summary - General Chemistry
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

				Site Area	Area 8	Area 8	Area 8	Area 8
				PSA ID (If Applicable)	None	PSA-35	PSA-35	PSA-35
				Location	NE-B-2	NE-B-3	NE-B-3	NE-B-3
				Sample Name	NE-B-2_SUB	NE-B-3_SS	NE-B-3_SUB	NE-B-3_SUB DUP
				Start Depth	10	0	10	10
				End Depth	15	0.5	15	15
				Depth Units	ft	ft	ft	ft
				Sample Date	11/22/2013	11/22/2013	11/22/2013	11/22/2013
				Parent Sample				NE-B-3_SUB_11/22/13
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20				
Chloride	mg/Kg				470 J+	5400 J+	330 J+	290 J+
Nitrate as Nitrogen	mg/Kg	100000	7	140	4.5 J+	32 J+	3.1 J+	2.8 J+
Sulfate	mg/Kg				120 J-	1800 J-	130 J-	130 J-

Notes:
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D = data reported from secondary dilution
J = estimated concentration
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U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-1. Soil Summary - General Chemistry
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

				Site Area	Area 8	Area 8	Area 8	Area 8
				PSA ID (If Applicable)	None	None	None	None
				Location	NE-B-6	NE-B-6	NE-B-6	NE-B-7
				Sample Name	NE-B-6 0-0.5	NE-B-6 10.0-11.5	NE-B-6 5.0-6.5	NE-B-7 0-0.5
				Start Depth	0	10	5	0
				End Depth	0.5	11.5	6.5	0.5
				Depth Units	ft	ft	ft	ft
				Sample Date	3/20/2014	3/20/2014	3/20/2014	3/20/2014
				Parent Sample				
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20				
Chloride	mg/Kg				22000	8300	9400	5000
Nitrate as Nitrogen	mg/Kg	100000	7	140	6.2	9.9	0.62	17
Sulfate	mg/Kg				170	100	690	540

Notes:
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D = data reported from secondary dilution
J = estimated concentration
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U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-1. Soil Summary - General Chemistry
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

				Site Area	Area 8	Area 8
				PSA ID (If Applicable)	None	None
				Location	NE-B-7	NE-B-7
				Sample Name	NE-B-7 10.0-11.5	NE-B-7 5.0-6.5
				Start Depth	10	5
				End Depth	11.5	6.5
				Depth Units	ft	ft
				Sample Date	3/20/2014	3/20/2014
				Parent Sample		
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20		
Chloride	mg/Kg				350	770
Nitrate as Nitrogen	mg/Kg	100000	7	140	6.6	6.7
Sulfate	mg/Kg				410	260

Notes:
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J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-2. Soil Summary - Metals
Area 5 and Area 8 Soils
TIMET
Henderson, Nevada

					Site Area	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5
					PSA ID (If Applicable)	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches	FrancyMtn
					Location	DD-B-4	DD-B-4	DD-B-5	DD-B-5	DD-B-6	DD-B-6	DD-B-7	DD-B-7	DD-B-8	DD-B-8	DD-B-9	DD-B-9	FM-SS-1
					Sample Name	DD-B-4_SS	DD-B-4_SUB	DD-B-5_SS	DD-B-5_SUB	DD-B-6_SS	DD-B-6_SUB	DD-B-7_SS	DD-B-7_SUB	DD-B-8_SS	DD-B-8_SUB	DD-B-9_SS	DD-B-9_SUB	FM-SS-1_SS
					Start Depth	0	5.5	0	9	0	10	0	10	0	10	0	10	0
					End Depth	0.5	10.5	0.5	14	0.5	15	0.5	15	0.5	15	0.5	15	0.5
					Depth Units	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
					Sample Date	12/2/2013	12/2/2013	11/13/2013	11/13/2013	12/3/2013	12/3/2013	12/6/2013	12/6/2013	12/4/2013	12/4/2013	12/3/2013	12/3/2013	11/20/2013
					Parent Sample													
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20														
Aluminum	mg/Kg	100000	75	1500	**12000**	**12000**	**9900**	**9500**	**11000**	**11000**	**12000**	**9800**	**12000**	**13000**	**9500**	**8900**	**9100**
Antimony	mg/Kg	454	0.3	6	3.5 UJ-	3.2 UJ-	3.2 UJ-	3.3 UJ-	3.4 UJ-	3.3 UJ-	3.4 UJ-	3.4 UJ-	3 UJ-	3 UJ-	3.3 UJ-	3.2 UJ-	2.8 UJ-
Arsenic	mg/Kg	1.77	1	20	**4.8 J**	**4.5 J**	**4.3 J**	**5.8**	**4.4 J**	**4.2 J**	**5.1 J**	**4.6 J**	**3.8 J**	**5.1**	**4.9 J**	**5**	**3 J**
Barium	mg/Kg	100000	82	1640	290 J+	170 J+	350 J-	160 J-	180 J+	140 J+	350 J-	200 J-	230 J+	240 J+	210 J+	130 J+	170
Beryllium	mg/Kg	2230	3	60	0.92 U	0.85 U	0.83 U	0.87 U	0.88 U	0.88 U	0.9 U	0.9 U	0.8 U	0.86 U	0.86 U	0.84 U	0.74 U
Cadmium	mg/Kg	1110	0.4	8	0.54 U	0.5 U	0.54 J	0.52 U	0.52 U	0.52 U	0.8 J	0.53 U	0.48 U	0.51 U	0.51 U	0.49 U	0.44 U
Calcium	mg/Kg				28000 J	20000 J	21000	25000	16000 J	26000 J	30000	35000	20000 J+	27000 J+	19000 J	26000 J	22000 J
Chromium (Cr III assumed)	mg/Kg	100000			170	17	46	11	49	11	70	12	19	15	38	13	68
Cobalt	mg/Kg	337	0.495	9.9	**14 J**	8.9 J	**19 J**	9.3 J	9 J	8.9 J	**17 J**	7.7 J	**11 J**	9.7 J	9.7 J	7.4 J	9.1 J
Copper	mg/Kg	42200	45.8	915	89	18	44	16	19	17	200	18	26	19	48	16	19
Iron	mg/Kg	100000	7.56	151	**16000**	**18000**	**13000**	**13000**	**16000**	**15000**	**17000**	**14000**	**17000**	**16000**	**13000**	**13000**	**13000**
Lead	mg/Kg	800			42	10	26	9.1	58	8.1 J+	37	9.4	22	12 J+	16	8.2 J+	18
Magnesium	mg/Kg	100000	973	19500	14000 J+	10000 J+	11000	8300	11000 J+	11000 J+	11000	7800	11000 J+	10000 J+	8400 J+	7900 J+	8500
Manganese	mg/Kg	24900	1.3	26.1	**2000**	**360**	**2600**	**340**	**1200**	**330**	**2800**	**340**	**690 J+**	**500 J+**	**800**	**270**	**500**
Mercury	mg/Kg	182		2.09	0.22	0.017 J	0.045	0.011 U	0.026 J	0.011 U	0.39	0.012 J	0.022 J	0.011 U	0.038	0.013 J	0.021 J
Nickel	mg/Kg	21800	7	140	30	18 J	27	17 J	32	18 J	43	15 J	21	18 J	17 J	15 J	18
Niobium	mg/Kg	114	1.38	25.6	**160 J-**	12 J	**50**	1.8 U	25 J-	6.7 J	**60 J-**	2 UJ-	**29 J-**	2.6 J	**41 J-**	8.9 J	**45 J-**
Potassium	mg/Kg				2200 J	2100 J	2200 J	1700 U	3500 U	3500 U	3200	2200 J	3200 U	3400 U	3400 U	3300 U	2400 J-
Selenium	mg/Kg	5680	0.3	6	1.6 UJ-	1.5 UJ-	1.5 J	1.5 U	1.5 UJ-	1.5 UJ-	1.5 U	1.5 U	1.4 U	1.5 U	1.5 UJ-	1.4 UJ-	1.3 U
Silver	mg/Kg	5680	0.85	17	5.2 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.8 J	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.2 J
Sodium	mg/Kg				890 J+	850 J+	470 J	600 J+	750 J	800 J	1200 J+	1000 J	630 J	960 J	1900 J+	1100 J+	840 J+
Thallium	mg/Kg	74.9	0.4	8	0.83 U	0.77 U	0.76 U	0.72 U	0.8 U	0.79 U	0.81 U	0.81 U	0.72 U	0.78 U	0.78 U	0.75 U	0.67 U
Titanium	mg/Kg	100000	146000	2920000	3000	1100	1100	670	920	810	2400	830	660	530	1200	720	1500
Uranium	mg/Kg	3400	13.5	270	21	1.3	4.5	1.3	8.3	1.5	2.7	1.3	1.6	1.6	6	1.6	11
Vanadium	mg/Kg	5680	300	6000	320	56	77	30	150	43	140	40	56	44	71	37	160 J-
Zinc	mg/Kg	100000	620	12400	85 J+	45 J+	60	34 J+	52 J+	37 J+	180	38	53 J+	40 J+	45 J+	35 J+	38

Notes:
-- = Sample not analyzed for this compound
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+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
blue shading = analyte concentration exceeds
comparison level for Industrial Outdoor Worker BCL
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-2. Soil Summary - Metals
Area 5 and Area 8 Soils
TIMET
Henderson, Nevada

					Site Area	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 8	Area 8	Area 8
					PSA ID (If Applicable)	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn	Drainage Ditches	Drainage Ditches	DrainageDitches
					Location	FM-SS-1	FM-SS-2	FM-SS-2	FM-SS-3	FM-SS-4	FM-B-1	FM-B-1	FM-B-1	FM-B-2	FM-B-2	FM-B-2	Alpha Line	Alpha Line	DD-B-10
					Sample Name	FM-SS-1_SS DUP	FM-SS-2_SS	FM-SS-2_SS DUP	FM-SS-3_SS	FM-SS-4_SS	FM-B-1 0-2	FM-B-1 13-15	FM-B-1 2-4	FM-B-2 0-2	FM-B-2 13-15	FM-B-2 2-4	AL-1	AL-2	DD-B-10_SS
					Start Depth	0	0	0	0	0	0	13	2	0	13	2	5	2	0
					End Depth	0.5	0.5	0.5	0.5	0.5	2	15	4	2	15	4	5.5	2.5	0.5
					Depth Units	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
					Sample Date	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	12/12/2013	12/12/2013	12/12/2013	12/12/2013	12/12/2013	12/12/2013	7/30/2014	7/30/2014	12/4/2013
					Parent Sample	FM-SS-1_SS_11/20/13		FM-SS-2_SS_11/20/13											
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20															
Aluminum	mg/Kg	100000	75	1500	**8400**	**8600**	**8700**	**5200**	**7900**	**9000**	**7900**	**8900**	**6900**	**10000**	**10000**	**12000**	**5300**	**12000**
Antimony	mg/Kg	454	0.3	6	3 UJ-	3 UJ-	3 UJ-	3 UJ-	3.1 UJ-	5.2 UJ-	4.8 UJ-	4.5 UJ-	4.4 UJ-	4.9 UJ-	4.7 UJ-	3.9 UJ-	3.2 UJ-	3.1 UJ-
Arsenic	mg/Kg	1.77	1	20	**2.8 J**	**2.9 J**	**2.5 J**	**1.4 J**	**2.6 J**	**3.7 J**	**5.2**	**4.9**	**3.3 J**	**5.3**	**3.8 J**	**4.9 J**	**4.5 J**	**4.3 J**
Barium	mg/Kg	100000	82	1640	150 J-	180 J-	170 J-	110 J-	150 J-	130 J+	140 J+	160	150	160	230	250 J-	480 J-	220 J+
Beryllium	mg/Kg	2230	3	60	0.79 U	0.78 U	0.78 U	0.79 U	0.83 U	2.6 UJ-	2.4 UJ-	2.2 UJ-	2.2 UJ-	2.5 UJ-	2.3 UJ-	1.1 J	0.76 U	0.77 U
Cadmium	mg/Kg	1110	0.4	8	0.47 U	0.46 U	0.46 U	0.47 U	0.49 U	2.6 U	2.4 U	2.2 U	2.2 U	2.5 U	2.3 U	0.43 U	0.35 U	0.46 U
Calcium	mg/Kg				20000 J	17000 J	16000 J	18000 J	13000 J	14000 J+	21000 J+	18000 J+	11000 J+	18000 J+	14000 J+	22000	16000	20000 J+
Chromium (Cr III assumed)	mg/Kg	100000			59	49	35	**290**	98	9.8 J+	8.7 J+	12 J+	150	13 J+	15 J+	41	120	17
Cobalt	mg/Kg	337	0.495	9.9	8.6 J	**10 J**	**10 J**	8.6 J	**10 J**	9.1 J	7.4 J	9.9 J	7.1 J	8.5 J	9.1 J	**12 J**	7.3 J	**10 J**
Copper	mg/Kg	42200	45.8	915	17	19	18	54	19	18	15	18	23	19	16	54 J-	25 J-	23
Iron	mg/Kg	100000	7.56	151	**13000**	**14000**	**14000**	**7800**	**12000**	**14000**	**10000**	**16000**	**9500**	**15000**	**16000**	**22000**	**9500**	**18000**
Lead	mg/Kg	800			17	14	12	26	17	7.5 J+	7.3 J+	9.6 J+	12 J+	8.1 J+	9.7 J+	24 J+	45	17
Magnesium	mg/Kg	100000	973	19500	7300	6700	7000	4400	6300	9000 J	7500 J	8300 J	5500 J	9600 J	7300 J	12000	5200	10000 J+
Manganese	mg/Kg	24900	1.3	26.1	**460**	**510**	**550**	**330**	**480**	**390 J-**	**300 J-**	**440 J-**	**350 J-**	**330 J-**	**430 J-**	**600**	**810**	**720 J+**
Mercury	mg/Kg	182		2.09	0.031	0.029 J	0.028 J	0.086	0.055	0.024 J	0.019 J	0.043	0.058	0.018 J	0.021 J	0.55	0.27	0.027 J
Nickel	mg/Kg	21800	7	140	17 J	17 J	18	15 J	19 J	21	15 J	18	15 J	17 J	16 J	26 J	20 J	19
Niobium	mg/Kg	114	1.38	25.6	**46 J-**	**30 J-**	24 J	**300 J-**	**66 J-**	13 UJ-	12 UJ-	1.9 J	**200 J-**	12 UJ-	7.1 J	18 J-	**79 J-**	6.9 J
Potassium	mg/Kg				2200 J	2000 J	2100 J	1600 UJ-	1700 UJ-	5200 U	4800 U	4500 U	4400 U	4900 U	4700 U	2500 J	1200 J	3100 U
Selenium	mg/Kg	5680	0.3	6	1.4 U	1.3 U	1.3 U	1.4 U	1.4 U	7.8 UJ-	7.2 UJ-	6.7 UJ-	6.7 UJ-	7.4 UJ-	7 UJ-	0.89 U	0.82 J	1.3 U
Silver	mg/Kg	5680	0.85	17	1.1 U	1.1 U	1.1 U	17	2.1 J	5.2 U	4.8 U	4.5 U	1.6 J	4.9 U	4.7 U	810 J	360 J	1.1 U
Sodium	mg/Kg				810 J+	450 J	450 J	570 J+	820 J+	670 J	550 J	760 J	630 J	860 J	790 J	1700	1300	830 J
Thallium	mg/Kg	74.9	0.4	8	0.71 U	0.7 U	0.7 U	0.71 U	0.75 U	2.6 U	2.4 U	2.2 U	2.2 U	2.5 U	2.3 U	0.97 U	0.78 U	0.7 U
Titanium	mg/Kg	100000	146000	2920000	1500	1100	1000	3200	1500	640	480	810	1400	670	850	1700	1300	610
Uranium	mg/Kg	3400	13.5	270	9.6	6.2	4	48	15	0.93	1.2	1.1	23	1.5	1.1	2.1	10	1.1
Vanadium	mg/Kg	5680	300	6000	140 J-	94 J-	71 J-	470 J-	140 J-	33 J-	28 J	42 J-	220 J-	40 J-	45 J-	82 J-	120 J-	48
Zinc	mg/Kg	100000	620	12400	33	43	40	29	52	38 J+	32 J+	39 J+	31 J+	39 J+	39 J+	100 J	52 J	47 J+

Notes:
-- = Sample not analyzed for this compound
* LCS or LCSD exceeds the control limits
+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
blue shading = analyte concentration exceeds
comparison level for Industrial Outdoor Worker BCL
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-2. Soil Summary - Metals
Area 5 and Area 8 Soils
TIMET
Henderson, Nevada

				Site Area	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8
				PSA ID (If Applicable)	DrainageDitches	None	None	None	None	None	None	None	PSA-35	PSA-35	PSA-35
				Location	DD-B-10	DD-B-10	NE-B-1	NE-B-1	NE-B-1	NE-B-2	NE-B-2	NE-B-2	NE-B-3	NE-B-3	NE-B-3
				Sample Name	DD-B-10_SUB	DD-B-10_SUB DUP	NE-B-1_SS	NE-B-1_SUB	NE-B-1_SUB DUP	NE-B-2_SS	NE-B-2_SUB	NE-B-3_SS	NE-B-3_SUB	NE-B-3_SUB DUP	
				Start Depth	10	10	0	8.5	8.5	0	10	0	10	10	
				End Depth	15	15	0.5	13.5	13.5	0.5	15	0.5	15	15	
				Depth Units	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	
				Sample Date	12/4/2013	12/4/2013	11/22/2013	11/22/2013	11/22/2013	11/22/2013	11/22/2013	11/22/2013	11/22/2013	11/22/2013	
				Parent Sample		DD-B-10_SUB_12/04/13			NE-B-1_SS_11/22/13						NE-B-3_SUB_11/22/13
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20											
Aluminum	mg/Kg	100000	75	1500	**18000**	**13000**	**5700**	**11000**	**8800**	**7800**	**9100**	**8100**	**7100**	**6800**	
Antimony	mg/Kg	454	0.3	6	3.3 UJ-	3.2 UJ-	3.2 UJ-	3.4 UJ-	3.3 UJ-	3.3 UJ-	3.6 UJ-	3.4 UJ-	3.4 UJ-	3.4 UJ-	
Arsenic	mg/Kg	1.77	1	20	**3.4 J**	**5.2**	**4.6 J**	**4.2 J**	**6 J+**	**5.4 J+**	**6.2 J+**	**5.4 J+**	**5.8 J+**	**5.2 J**	
Barium	mg/Kg	100000	82	1640	170 J+	200 J+	72 J+	180 J+	150 J+	140 J+	140 J+	130 J+	110 J+	110 J+	
Beryllium	mg/Kg	2230	3	60	0.86 U	0.87 U	0.85 U	0.9 U	0.87 U	0.86 U	0.94 U	0.89 U	0.9 U	0.9 U	
Cadmium	mg/Kg	1110	0.4	8	0.51 U	0.51 U	0.5 U	0.53 U	0.51 U	0.51 U	0.56 U	0.53 U	0.53 U	0.53 U	
Calcium	mg/Kg				28000 J+	27000 J+	17000	25000	29000	18000	27000	20000	29000	28000	
Chromium (Cr III assumed)	mg/Kg	100000			14	15	7.8	12	11	10	11	15	11	11	
Cobalt	mg/Kg	337	0.495	9.9	**11 J**	9.4 J	8.2 J	8.9 J	9 J	9.8 J	9 J	9.8 J	9.5 J	9.3 J	
Copper	mg/Kg	42200	45.8	915	21	17	17	17	16	18	17	24	15	16	
Iron	mg/Kg	100000	7.56	151	**17000**	**17000**	**9300**	**15000**	**12000**	**12000**	**13000**	**13000**	**10000**	**9600**	
Lead	mg/Kg	800			9.3 J+	10 J+	7	10	8.5	8.6	8.1	11	8.1	7.4	
Magnesium	mg/Kg	100000	973	19500	11000 J+	10000 J+	9700	9900	8800	5900	7500	9200	6300	5900	
Manganese	mg/Kg	24900	1.3	26.1	**420**	**400 J+**	**210 J+**	**350 J+**	**320 J+**	**320 J+**	**280 J+**	**360 J+**	**220 J+**	**230 J+**	
Mercury	mg/Kg	182		2.09	0.029 J	0.011 U	0.011 J	0.011 J	0.011 U	0.011 J	0.012 J	0.022 J	0.012 J	0.012 J	
Nickel	mg/Kg	21800	7	140	20	18 J	16 J	17 J	16 J	15 J	16 J	20 J	16 J	16 J	
Niobium	mg/Kg	114	1.38	25.6	2 UJ-	1.7 UJ-	1.9 UJ-	2 UJ-	2 UJ-	2.7 J	2.1 UJ-	2.2 J	2 UJ-	2 UJ-	
Potassium	mg/Kg				3400 U	3500 U	1700 U	2100 J	1700 J	1700 U	1900 U	2000 J	1800 U	1800 U	
Selenium	mg/Kg	5680	0.3	6	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.6 U	1.5 U	1.5 U	1.5 U	
Silver	mg/Kg	5680	0.85	17	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.2 U	
Sodium	mg/Kg				6000 J	1400 J	400 J	960 J+	690 J+	750 J+	690 J+	940 J+	540 J+	500 J	
Thallium	mg/Kg	74.9	0.4	8	0.77 U	0.78 U	0.76 U	0.81 U	0.78 U	0.78 U	0.85 U	0.8 U	0.81 U	0.81 U	
Titanium	mg/Kg	100000	146000	2920000	740	540	620	930	710	720	770	790	570	540	
Uranium	mg/Kg	3400	13.5	270	1.1	1.5	1.3 J+	0.95 J+	1.2 J+	1.3 J+	1.8 J+	1.3 J+	1.3 J+	1.4 J+	
Vanadium	mg/Kg	5680	300	6000	45	44	22 J	36	29	31	31	30	26 J	23 J	
Zinc	mg/Kg	100000	620	12400	47 J+	41 J+	36	39	37	36	40	45	38	37	

Notes:
-- = Sample not analyzed for this compound
* LCS or LCSD exceeds the control limits
+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
blue shading = analyte concentration exceeds
comparison level for Industrial Outdoor Worker BCL
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-2. Soil Summary - Metals
Area 5 and Area 8 Soils
TIMET
Henderson, Nevada

				Site Area	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8
				PSA ID (If Applicable)	None	None	None	None	None	None
				Location	NE-B-6	NE-B-6	NE-B-6	NE-B-7	NE-B-7	NE-B-7
				Sample Name	NE-B-6 0-0.5	NE-B-6 10.0-11.5	NE-B-6 5.0-6.5	NE-B-7 0-0.5	NE-B-7 10.0-11.5	NE-B-7 5.0-6.5
				Start Depth	0	10	5	0	10	5
				End Depth	0.5	11.5	6.5	0.5	11.5	6.5
				Depth Units	ft	ft	ft	ft	ft	ft
				Sample Date	3/20/2014	3/20/2014	3/20/2014	3/20/2014	3/20/2014	3/20/2014
				Parent Sample						
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20						
Aluminum	mg/Kg	100000	75	1500	**7700**	**7600**	**6700**	**9500**	**7600**	**7600**
Antimony	mg/Kg	454	0.3	6	3.1 UJ-	2.9 UJ-	3 UJ-	3 UJ-	2.9 UJ-	3.3 UJ-
Arsenic	mg/Kg	1.77	1	20	**5.8**	**5.9**	**5**	**4.9**	**5.4**	**5.1 J**
Barium	mg/Kg	100000	82	1640	130 J+	100 J+	120 J+	180 J+	170 J+	170 J+
Beryllium	mg/Kg	2230	3	60	0.76 U	0.7 U	0.73 U	0.74 U	0.7 U	0.79 U
Cadmium	mg/Kg	1110	0.4	8	0.34 U	0.32 U	0.33 U	0.33 U	0.32 U	0.36 U
Calcium	mg/Kg				32000	32000	27000	26000	46000	31000
Chromium (Cr III assumed)	mg/Kg	100000			17	16	14	23	16	17
Cobalt	mg/Kg	337	0.495	9.9	**11 J**	**10 J**	**11 J**	**12 J**	**11 J**	**13 J**
Copper	mg/Kg	42200	45.8	915	20 J	13 J	16 J	47	18 J	17 J
Iron	mg/Kg	100000	7.56	151	**12000**	**11000**	**12000**	**17000**	**11000**	**12000**
Lead	mg/Kg	800			14	11	14	22	11	11
Magnesium	mg/Kg	100000	973	19500	15000	8600	9400	13000	7400	7300
Manganese	mg/Kg	24900	1.3	26.1	**420**	**250**	**340**	**800**	**270**	**300**
Mercury	mg/Kg	182		2.09	0.012 J	0.012 U	0.018 J	0.063 J+	0.011 U	0.012 U
Nickel	mg/Kg	21800	7	140	18 J	18 J	18 J	24 J	20 J	20 J
Niobium	mg/Kg	114	1.38	25.6	3 J	1.9 UJ-	1.9 UJ-	3.2 J	2 UJ-	2.1 UJ-
Potassium	mg/Kg				1600 J	1700 J	1600 J	2800 J	1300 J	1700 J
Selenium	mg/Kg	5680	0.3	6	2.1 U	1.9 U	2 U	2 U	1.9 U	2.2 U
Silver	mg/Kg	5680	0.85	17	0.71 U	0.65 U	0.68 U	0.69 U	0.65 U	0.74 U
Sodium	mg/Kg				680 J	920 J	360 J	1300	770 J	730 J
Thallium	mg/Kg	74.9	0.4	8	0.77 U	0.75 U	0.77 U	0.68 U	0.79 U	0.82 U
Titanium	mg/Kg	100000	146000	2920000	660	460	640	930	530	570
Uranium	mg/Kg	3400	13.5	270	1.7	1.3	1.2	0.9	1.8	1.3
Vanadium	mg/Kg	5680	300	6000	31 J	28 J	32 J	45 J	29 J	29 J
Zinc	mg/Kg	100000	620	12400	54 J+	43 J	47 J	76 J+	48 J+	50 J

Notes:
-- = Sample not analyzed for this compound
* LCS or LCSD exceeds the control limits
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D = data reported from secondary dilution
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U = analyte not detected above referenced laboratory limit
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reporting limit may be inaccruate or imprecise
blue shading = analyte concentration exceeds
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orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-3. Soil Summary - Radionuclides
Area 8 Soils
TIMET
Henderson, Nevada

		Site Area	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn
		PSA (If Applicable)															
		Location	DD-B-4	DD-B-4	DD-B-8	DD-B-8	DD-B-9	DD-B-9	FM-SS-1	FM-SS-1	FM-SS-2	FM-SS-2	FM-SS-3	FM-SS-4	FM-B-1	FM-B-1	FM-B-1
		Sample Name	DD-B-4_SS	DD-B-4_SUB	DD-B-8_SS	DD-B-8_SUB	DD-B-9_SS	DD-B-9_SUB	FM-SS-1_SS	FM-SS-1_SS DUP	FM-SS-2_SS	FM-SS-2_SS DUP	FM-SS-3_SS	FM-SS-4_SS	FM-B-1 0-2	FM-B-1 13-15	FM-B-1 2-4
		Start Depth	0	5.5	0	10	0	10	0	0	0	0	0	0	0	13	2
		End Depth	0.5	10.5	0.5	15	0.5	15	0.5	0.5	0.5	0.5	0.5	0.5	2	15	4
		Depth Units	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	12/2/2013	12/2/2013	12/4/2013	12/4/2013	12/3/2013	12/3/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	12/12/2013	12/12/2013	12/12/2013
		Parent Sample								FM-SS-1_SS_11/20/13		FM-SS-2_SS_11/20/13					
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL															
Actinium-228	pCi/g		2.1	1.68	2.08	1.96	2.05	2.06	1.91	2.01	1.83	1.81	3.05	2.05	1.79	1.75	1.73
Bismuth-210M	pCi/g		0.0433 U	0.00754 U	0.0195 U	0.0568 U	-0.0218 U	0.0475 U	0.0513 U	-0.0451 U	0.00664 U	0.0196 U	0.0261 U	0.0123 U	0.105 U	0.118 U	0.114 U
Bismuth-212	pCi/g		4.12	2.98	2.63	1.88	1.17	1.68 U	3.09	3.53	2.78	2.91	4.46	2.57	1.2	2.93	2.38
Bismuth-214	pCi/g		4.57	1.11	1.61	1.15	3.67	1.12	2.34	2.57	1.48	1.74	11.3	3.28	1.1	1.11	1.05
Cesium-134	pCi/g		0.0172 U	0.0512 U	0.0424 U	-0.00405 U	0.00604 U	-0.052 U	0.0287 U	0.0241 U	0.0559 U	0.0235 U	0.0621 U	-0.0365 U	0.229 U	0.0921 U	0.065 U
Cesium-137	pCi/g		0.0337 U	0.000363 U	-0.0292 U	0.000455 U	0.00659 U	0.0292 U	-0.053 U	-0.0198 U	0.00232 U	0.00411 U	0.00278 U	-0.00306 U	0.0764 U	0.1 U	0.0715 U
Cobalt-57	pCi/g		0.00948 U	-0.00979 U	0.0375 U	0.00063 U	-0.0462 U	0.0126 U	0.00656 U	0.0164 U	0.0127 U	-0.0105 U	0.0104 U	0.0144 U	0.0567 U	0.0627 U	0.0628 U
Cobalt-60	pCi/g		0 U	0.0216 U	0.0195 U	0.0348 U	0.0107 U	0.0552 U	0.0111 U	0.011 U	0.0376 U	-0.0174 U	0.0591 U	0.013 U	0.106 U	0.11 U	0.0904 U
GROSS ALPHA	pCi/g		126	31.8	27.5	20.7	88.5	26.6	74.2	84.6	37.1	39	348	97.1	16.1	25.3	30.2
GROSS BETA	pCi/g		48.8 J+	30 J+	33.8 J+	26.6 J+	45.9 J+	32.3 J+	49.1 J+	50.8 J+	35.6 J+	35.3 J+	153 J+	32.9 J+	28.6 J+	19.9 J+	26.5 J+
Lead-212	pCi/g		2.14	1.6	1.81	1.91	1.95	1.89	1.99	1.9	1.66	1.9	2.89	1.79	1.69	1.89	1.61
Lead-214	pCi/g		4.75	1.13	1.8	1.45	4.06	1.39	2.71 J+	3.2 J+	1.66 J+	1.77 J+	11.3 J+	3.57 J+	1.12	1.34	1.17
Potassium-40	pCi/g		20	24.8	24	22.4	24.3	22.5	21.8	21.5	24.3	23.5	16.2	25.5	23.9	26.9	26.8
Protactinium-231	pCi/g		0.891 U	0.931 U	0.7 U	0.798 U	0.91 U	0.475 U	1.47 U	0.828 U	0.649 U	1.18 U	-3.01 U	0.933 U	1.96 U	2.66 U	1.19 U
Protactinium-234m	pCi/g		0.0946 U	0.075 U	0.00436 U	-0.126 U	0.127 U	-0.118 U	0.0502 U	-0.139 U	0.0401 U	0.00766 U	-0.281 U	-0.125 U	0.289 U	0.355 U	0.297 U
Radium-224	pCi/g		1.16 U	1.61 U	0.988 U	-5.43 U	2.76	2.54	2.43 U	2.45	2.29 U	2.35	3.2 U	1.46 U	1.78 U	2.18 U	2.75 U
Radium-226	pCi/g	0.023	**5.23 J+**	**1.13 J+**	**2.01 J+**	**1.55 J+**	**4.94 J+**	**0.99 J+**	**2.97**	**3.15**	**1.47**	**1.76**	**14.7**	**3.08**	**1.03 J+**	**1.31 J+**	**1.02 J+**
Radium-228	pCi/g	0.041	**1.33 J+**	**1.54 J+**	**1.13**	**1.12**	**1.05 J+**	**1.37 J+**	**1.39**	**1.22**	**1.12**	**0.63**	**1.94**	**1.27**	**1.17 J+**	**1.35 J+**	**1.37 J+**
Thallium-208	pCi/g		0.834	0.583	0.631	0.671	0.661	0.551	0.6	0.725	0.636	0.633	1.06	0.675	0.619	0.618	0.423
Thorium	pCi/g		1.49	1.35	1.86	1.64	1.59	1.36	1.64	1.57	1.88	1.7	2.23	1.64	1.96 J+	1.72 J+	1.49 J+
Thorium-227	pCi/g		-0.384 U	-0.0412 U	0.101 U	0.0453 U	0.201 U	0.082 U	0.389 U	0.00531 U	0.157 U	0.103 U	1.43	0.188 U	0.343 U	1.96 U	0.464 U
Thorium-228	pCi/g	0.025	**1.9**	**1.31**	**1.97 J+**	**1.56 J+**	**1.65**	**1.59**	**1.96 J+**	**1.84 J+**	**1.74 J+**	**1.8 J+**	**2.77 J+**	**1.79 J+**	**2.21 J+**	**1.77 J+**	**1.68 J+**
Thorium-230	pCi/g	8.3	5.58 J+	0.834 J+	1.5 J+	1.26 J+	2.65 J+	1.25 J+	4.89 J+	4.76 J+	2.58 J+	2.46 J+	**28.3 J+**	6.12 J+	1.44 J+	1.36 J+	1.01 J+
Thorium-234	pCi/g		6.47	0.942 U	1.16 U	0.897 U	3.59	1.01 U	3.56	4.15	2.84	2.85	22	3.94	1.78 U	2.26	1.54
Uranium-234	pCi/g	110	6.78	1.08	1.05	1.32	3.84	0.977	4.48	4.41	2.47	2.06	28.6	5.98	0.913	1.24	1.07
Uranium-235	pCi/g	0.35	**0.401**	0.0684	0.07	0.0255 U	0.21	0.0131 U	0.221	0.282	0.177	0.0594 U	**1.55**	0.311	0.128 U	0.0866 U	0.0424 U
Uranium-238	pci/g	1.4	**6.79**	1.17	1.27	1.14	**3.16**	1.03	**4.52**	**4.04**	**2.41**	**2.15**	**28.3**	**6**	1.33	0.84	1.08

Notes:
-- = Sample not analyzed for this compound
* LCS or LCSD exceeds the control limits
+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
blue shading = analyte concentration exceeds
comparison level for Industrial Outdoor Worker BCL
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level

Table 3-3. Soil Summary - Radionuclides
Area 8 Soils
TIMET
Henderson, Nevada

		Site Area	Area 5	Area 5	Area 5	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8
		PSA (If Applicable)	FrancyMtn	FrancyMtn	FrancyMtn	Drainage Ditches	Drainage Ditches	PSA-35	PSA-35	PSA-35	None	None	None	None
		Location	FM-B-2	FM-B-2	FM-B-2	Alpha Line	Alpha Line	NE-B-3	NE-B-3	NE-B-3	NE-B-6	NE-B-6	NE-B-7	NE-B-7
		Sample Name	FM-B-2 0-2	FM-B-2 13-15	FM-B-2 2-4	AL-1	AL-2	NE-B-3_SS	NE-B-3_SUB	NE-B-3_SUB DUP	NE-B-6 0-0.5	NE-B-6 5.0-6.5	NE-B-7 0-0.5	NE-B-7 5.0-6.5
		Start Depth	0	13	2	5	2	0	10	10	0	5	0	5
		End Depth	2	15	4	5.5	2.5	0.5	15	15	0.5	6.5	0.5	6.5
		Depth Units	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	12/12/2013	12/12/2013	12/12/2013	7/30/2014	7/30/2014	11/22/2013	11/22/2013	11/22/2013	3/20/2014	3/20/2014	3/20/2014	3/20/2014
		Parent Sample								NE-B-3_SUB_11/22/13				
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL												
Actinium-228	pCi/g		2.39	1.7	1.64	1.57	2.95	2.05	1.69	1.75	1.57	1.7	1.72	1.72
Bismuth-210M	pCi/g		0.227 U	0.107 U	0.128 U	0.0719 U	0.059 U	0.0438 U	-0.0442 U	0.0547 U	0.00202 U	0.0568 U	0.0327 U	0 U
Bismuth-212	pCi/g		2.57 U	1.16 U	3.18	1.6	2.23 U	3.17	1.17	1.47	3.02	2.04	1.97	2.2
Bismuth-214	pCi/g		5.16	1.18	1.15	1.54	16.5	1.43	0.972	1.35	1.56	0.822	1.18	1.01
Cesium-134	pCi/g		0.765 U	0.24 U	0.142 U	0.0353 U	0.115 U	-0.0456 U	0.00356 U	-0.008 U	0.0302 U	0.0366 U	0.0372 U	0.0659 U
Cesium-137	pCi/g		0.193 U	0.0818 U	0.135 U	0 U	0.0134 U	0.0317 U	-0.0106 U	0.00258 U	-0.000803 U	0.0108 U	0.0369 U	-0.0242 U
Cobalt-57	pCi/g		0.108 U	0.0536 U	0.0715 U	-0.00585 U	0.00602 U	-0.00516 U	0.00619 U	0.000551 U	-0.00529 U	-0.0174 U	0.0381 U	0.0196 U
Cobalt-60	pCi/g		0.188 U	0.12 U	0.0471 U	-0.001 U	-0.00837 U	0.01 U	0 U	0.0151 U	-0.0212 U	-0.00246 U	0.00216 U	0.0102 U
GROSS ALPHA	pCi/g		244	27.3	23.5	34.3	229	35.1	24.1	27.8	24.5	26.9	29.3	18.9
GROSS BETA	pCi/g		103 J+	29.6 J+	31.3 J+	33.6 J+	98.3 J+	32.5	29.5	29.5	22.5 J+	28.4 J+	29.2 J+	25.8 J+
Lead-212	pCi/g		2.32	1.66	1.68	34.3	229	1.75	1.79	1.54	1.82	1.41	1.63	1.62
Lead-214	pCi/g		5.2	1.22	1	33.6 J+	98.3 J+	1.44	1.18	1.15	1.86	0.979	1.25	0.993
Potassium-40	pCi/g		25	23.9	25.3	23.5	21.1	23.8	26	27.4	20.7	23.9	21.5	22
Protactinium-231	pCi/g		5.31 U	2.17 U	2.91 U	-1.28 U	0.3 U	-0.625 U	0.647 U	-1.56 U	0.603 U	0.979 U	0.798 U	1.28 U
Protactinium-234m	pCi/g		0.615 U	0.176 U	0.323 U	-0.0367 U	0.00529 U	-0.0393 U	0.0768 U	-0.139 U	0.0418 U	-0.0237 U	-0.0114 U	0.213
Radium-224	pCi/g		4.45 U	1.9 U	2.36	2.45	6.77	1.93 U	2.2	-4.14 U	1.88 U	1.93	1.18 U	1.41 U
Radium-226	pCi/g	0.023	**8.6 J+**	**1.11 J+**	**1.04 J+**	**1.51**	**19.7**	**1 J+**	**0.931 J+**	**0.929 J+**	**1.41**	**1.27**	**1.17**	**1.02**
Radium-228	pCi/g	0.041	**1.95 J+**	**1.39 J+**	**1.09 J+**	**1**	**1.13**	**1.51**	**1.03**	**1**	**0.991**	**0.995**	**1.08**	**1.09**
Thallium-208	pCi/g		0.989	0.639	0.53	0.591	0.822	0.656	0.623	0.568	0.555	0.583	0.464	0.518
Thorium	pCi/g		2.2 J+	1.48 J+	1.61 J+	1.68	1.18	1.66	1.55	1.66	1.51	1.68	1.8	1.62
Thorium-227	pCi/g		2.86 U	0.462 U	1.91 U	0.0645 U	-2.12 U	-0.816 U	0.0674 U	0.0872 U	0.119 U	-0.0267 U	0.457 U	-0.444 U
Thorium-228	pCi/g	0.025	**2.36 J+**	**1.84 J+**	**1.75 J+**	**1.68**	**1.13**	**1.63**	**1.8**	**1.64**	**1.47**	**1.78**	**1.7**	**1.78**
Thorium-230	pCi/g	8.3	**14.5 J+**	1.09 J+	1.17 J+	1.23	3.76	1.01 J+	1.17 J+	1.18 J+	1.01 J+	1.07 J+	1.45 J+	1 J+
Thorium-234	pCi/g		5.27	2.05 U	2.43 U	1.5 U	3.4 U	0.914 U	1.91 U	0.67 U	0.675 U	0.554 U	1.3	0.741 U
Uranium-234	pCi/g	110	15.9	1.13	0.957	1.22	3.96	0.777 J+	1.05 J+	1.11 J+	0.862 J+	0.757 J+	0.92 J+	0.657 J+
Uranium-235	pCi/g	0.35	**0.633**	0.059	0.13	0.0363 U	0.192	0.043	0.0592	0.0368	0.036 U	0.0222 U	-0.00291 U	0.0397 U
Uranium-238	pci/g	1.4	**15.1**	1.26	0.972	1.1 J	**3.54 J**	1.01	1.01	0.992	0.87	0.591	0.995	0.762

Notes:
-- = Sample not analyzed for this compound
* LCS or LCSD exceeds the control limits
+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in con
U = analyte not detected above referenced lab
UJ = analyte not detected above referenced lal
reporting limit may be inaccruate or impre
blue shading = analyte concentration exceeds
comparison level for Industrial Outdoor Worker
orange shading = analyte concentration exceed
LBCL DAF20 comparison level

Table 3-4. Soil Summary - VOCs
Area 8 Soils
TIMET
Henderson, Nevada

					Site Area	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8
					PSA (if applicable)	Drainage Ditches	Drainage Ditches	None	None	None	None	None	None
					Location	Alpha Line	Alpha Line	NE-B-6	NE-B-6	NE-B-6	NE-B-7	NE-B-7	NE-B-7
					Sample Name	AL-1	AL-2	NE-B-6 0-0.5	NE-B-6 10.0-11.5	NE-B-6 5.0-6.5	NE-B-7 0-0.5	NE-B-7 10.0-11.5	NE-B-7 5.0-6.5
					Start Depth	5	2	0	10	5	0	10	5
					End Depth	5.5	2.5	0.5	11.5	6.5	0.5	11.5	6.5
					Depth Units	ft	ft	ft	ft	ft	ft	ft	ft
					Sample Date	7/30/2014	7/30/2014	3/20/2014	3/20/2014	3/20/2014	3/20/2014	3/20/2014	3/20/2014
					Parent Sample								
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20									
1,1,1,2-Tetrachloroethane	mg/Kg	20.3			0.00044 U	0.00056 U	0.00033 U	0.00043 U	0.00038 U	0.00037 U	0.00035 R	0.00037 U	
1,1,1-Trichloroethane	mg/Kg	1390	0.10	2	0.00054 U	0.00069 U	0.0004 U	0.00053 U	0.00047 U	0.00045 U	0.00042 R	0.00045 U	
1,1,2,2-Tetrachloroethane	mg/Kg	2.59	0.0002	0.004	0.00051 U	0.00064 U	0.00038 U	0.00049 U	0.00044 U	0.00042 UJ	0.00039 R	0.00042 U	
1,1,2-Trichloroethane	mg/Kg	5.8	0.0009	0.018	0.00072 U	0.00092 U	0.00054 U	0.0007 U	0.00062 U	0.0006 U	0.00056 R	0.0006 U	
1,1-Dichloroethane	mg/Kg	23.3	1.00	20	0.00049 U	0.00063 U	0.00037 U	0.00048 U	0.00043 U	0.00041 U	0.00038 R	0.00041 U	
1,1-Dichloroethene	mg/Kg	1400	0.003	0.06	0.002 U	0.0026 U	0.0015 U	0.002 U	0.0018 U	0.0017 U	0.0016 R	0.0017 U	
1,1-Dichloropropene	mg/Kg				0.00038 U	0.00048 U	0.00028 U	0.00037 U	0.00033 U	0.00032 U	0.0003 R	0.00032 U	
1,2,3-Trichlorobenzene	mg/Kg				0.00056 U	0.00071 U	0.00041 U	0.00054 U	0.00048 U	0.00046 UJ	0.00043 R	0.00046 U	
1,2,3-Trichloropropane	mg/Kg	0.11			0.00071 U	0.0009 U	0.00053 U	0.00069 U	0.00061 U	0.00059 UJ	0.00055 R	0.00059 U	
1,2,4-Trichlorobenzene	mg/Kg	110	0.30	6	0.00054 U	0.00069 U	0.0004 U	0.00053 U	0.00047 U	0.00045 UJ	0.00042 R	0.00045 U	
1,2,4-Trimethylbenzene	mg/Kg	671			0.00076 U	0.00097 U	0.00056 U	0.00074 U	0.00065 U	0.00063 UJ	0.00059 R	0.00063 U	
1,2-Dichlorobenzene	mg/Kg	373	0.90	18	0.00035 U	0.00045 U	0.00026 U	0.00034 U	0.00031 U	0.00029 UJ	0.00028 R	0.00029 U	
1,2-Dichloroethane	mg/Kg	2.41	0.001	0.02	0.0011 U	0.0014 U	0.00082 U	0.0011 U	0.00095 U	0.00092 U	0.00086 R	0.00091 U	
1,2-Dichloropropane	mg/Kg	4.54	0.001	0.02	0.00048 U	0.00061 U	0.00036 U	0.00047 U	0.00041 U	0.0004 U	0.00037 R	0.0004 U	
1,3,5-Trimethylbenzene	mg/Kg	254			0.00039 U	0.0005 U	0.00029 U	0.00038 U	0.00034 U	0.00033 UJ	0.00031 R	0.00033 U	
1,3-Dichlorobenzene	mg/Kg	373			0.00035 U	0.00045 U	0.00026 U	0.00034 U	0.00031 U	0.00029 UJ	0.00028 R	0.00029 U	
1,3-Dichloropropane	mg/Kg	71.6	0.001	0.02	0.0004 U	0.00052 U	0.0003 U	0.00039 U	0.00035 U	0.00034 U	0.00032 R	0.00034 U	
1,4-Dichlorobenzene	mg/Kg	14.3	0.1	2	0.00076 U	0.00097 U	0.00056 U	0.00074 U	0.00065 U	0.00063 UJ	0.00059 R	0.00063 U	
2,2-Dichloropropane	mg/Kg				0.00068 U	0.00087 U	0.00051 U	0.00066 U	0.00059 U	0.00057 U	0.00053 R	0.00057 U	
2-Chlorotoluene (o-Chlorotoluene)	mg/Kg	511			0.00043 U	0.00055 U	0.00032 U	0.00042 U	0.00037 U	0.00036 UJ	0.00034 R	0.00036 U	
2-Hexanone	mg/Kg	2150			0.0022 U	0.0029 U	0.0047 J	0.0022 U	0.0019 U	0.0019 U	0.0017 R	0.0019 U	
4-Chlorotoluene (p-Chlorotoluene)	mg/Kg				0.00048 U	0.00061 U	0.00036 U	0.00047 U	0.00041 U	0.0004 UJ	0.00037 R	0.0004 U	
4-Isopropyltoluene	mg/Kg	647			0.0004 U	0.00052 U	0.0003 U	0.00039 U	0.00035 U	0.00034 UJ	0.00032 R	0.00034 U	
4-Methyl-2-pentanone (MIBK)	mg/Kg	17200			0.00092 U	0.0012 U	0.00069 U	0.0009 U	0.0008 U	0.00077 U	0.00072 R	0.00077 U	
Acetone	mg/Kg	100000	0.80	16	0.086	0.15	0.067 J+	0.029 J+	0.049 J+	0.079 J+	0.0064 R	0.028 J+	
Acetonitrile	mg/Kg	6840			0.026 R	0.033 R	0.019 R	0.025 R	0.022 R	0.021 R	0.02 R	0.021 R	
Benzene	mg/Kg	4.5	0.002	0.04	0.00032 U	0.0013 J	0.00024 U	0.00031 U	0.0021 J	0.00091 J	0.00025 R	0.00026 U	
Bromobenzene	mg/Kg	695			0.00047 U	0.0006 U	0.00035 U	0.00046 U	0.0004 U	0.00039 UJ	0.00036 R	0.00039 U	
Bromochloromethane	mg/Kg				0.001 U	0.0013 U	0.00077 U	0.001 U	0.00089 U	0.00086 U	0.00081 R	0.00086 U	
Bromodichloromethane	mg/Kg	3.6	0.03	0.6	0.00032 U	0.0004 U	0.00024 U	0.00031 U	0.00027 U	0.00026 U	0.00025 R	0.00026 U	
Bromoform	mg/Kg	242	0.04	0.8	0.00047 U	0.0006 U	0.00035 U	0.00046 U	0.0004 U	0.00039 UJ	0.00036 R	0.00039 U	
Bromomethane	mg/Kg	42.9	0.01	0.2	0.0014 U	0.0018 U	0.001 UJ	0.0014 UJ	0.0012 UJ	0.0012 UJ	0.0011 R	0.0012 UJ	
Carbon disulfide	mg/Kg	721	2	40	0.00087 U	0.0011 U	0.00065 U	0.00085 U	0.00075 U	0.00073 U	0.00068 R	0.00073 U	
Carbon tetrachloride	mg/Kg	4.07	0.003	0.06	0.00064 U	0.00082 U	0.00048 U	0.00063 U	0.00056 U	0.00054 U	0.0005 R	0.00054 U	
Chlorobenzene	mg/Kg	695	0.07	1.4	0.00048 U	0.00061 U	0.00036 U	0.00047 U	0.00041 U	0.0004 U	0.00037 R	0.0004 U	
Chloroethane	mg/Kg	1100			0.00066 U	0.00084 U	0.00049 U	0.00064 U	0.00057 U	0.00055 U	0.00051 R	0.00055 U	
Chloroform	mg/Kg	1.71	0.03	0.6	0.0018 J	0.00076 J	0.00036 U	0.00047 U	0.00041 U	0.0004 U	0.00037 R	0.0004 U	
Chloromethane	mg/Kg	8.95			0.00082 U	0.001 U	0.00061 U	0.0008 U	0.00071 U	0.00068 U	0.00064 R	0.00068 U	
cis-1,2-Dichloroethene	mg/Kg	791	0.02	0.4	0.00076 U	0.00097 U	0.00056 U	0.00074 U	0.00065 U	0.00063 U	0.00059 R	0.00063 U	
cis-1,3-Dichloropropene	mg/Kg				0.00076 U	0.00097 U	0.00056 U	0.00074 U	0.00065 U	0.00063 U	0.00059 R	0.00063 U	
Dibromochloromethane	mg/Kg	6.15	0.02	0.4	0.00052 U	0.00066 U	0.00039 U	0.0005 U	0.00045 U	0.00043 U	0.0004 R	0.00043 U	
Dibromomethane	mg/Kg	210			0.0012 U	0.0016 U	0.00091 U	0.0012 U	0.0011 U	0.001 U	0.00096 R	0.001 U	
Dichlorodifluoromethane (Freon 12)	mg/Kg	340			0.0017 U	0.0021 U	0.0012 U	0.0016 U	0.0014 U	0.0014 U	0.0013 R	0.0014 U	
Ethanol	mg/Kg	100000			0.078 R	0.099 R	0.058 R	0.076 R	0.067 R	0.065 R	0.061 R	0.064 R	
Ethylbenzene	mg/Kg	21	0.7	14	0.00038 U	0.00048 U	0.00028 U	0.00037 U	0.00033 U	0.00032 U	0.0003 R	0.00032 U	
Iodomethane	mg/Kg	1680			0.0019 U	0.0024 U	0.0014 U	0.0019 U	0.0016 U	0.0016 U	0.0015 R	0.0016 U	
Isopropyl benzene	mg/Kg	647			0.00033 U	0.00042 U	0.00024 U	0.00032 U	0.00028 U	0.00027 UJ	0.00026 R	0.00027 U	
m/p-Xylene	mg/Kg				0.00072 U	0.00092 U	0.00054 U	0.0007 U	0.00062 U	0.0006 U	0.00056 R	0.0006 U	
Methyl ethyl ketone (2-Butanone)	mg/Kg	34100			0.017 J	0.021 J	0.016 J	0.0024 U	0.0095 J	0.013 J	0.0019 R	0.002 U	

Table 3-4. Soil Summary - VOCs
Area 8 Soils
TIMET
Henderson, Nevada

					Site Area	Area 8 Drainage Ditches	Area 8 Drainage Ditches	Area 8 None	Area 8 None	Area 8 None	Area 8 None	Area 8 None	Area 8 None
					PSA (if applicable)	Alpha Line	Alpha Line	NE-B-6	NE-B-6	NE-B-6	NE-B-7	NE-B-7	NE-B-7
					Location	AL-1	AL-2	NE-B-6 0-0.5	NE-B-6 10.0-11.5	NE-B-6 5.0-6.5	NE-B-7 0-0.5	NE-B-7 10.0-11.5	NE-B-7 5.0-6.5
					Sample Name	5	2	0	10	5	0	10	5
					Start Depth	5.5	2.5	0.5	11.5	6.5	0.5	11.5	6.5
					End Depth	ft	ft	ft	ft	ft	ft	ft	ft
					Depth Units	7/30/2014	7/30/2014	3/20/2014	3/20/2014	3/20/2014	3/20/2014	3/20/2014	3/20/2014
					Sample Date								
					Parent Sample								
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20									
Methyl tert-butyl ether (MTBE)	mg/Kg	216			0.00061 U	0.00077 U	0.00045 U	0.00059 U	0.00052 U	0.00051 U	0.00047 R	0.0005 U	
Methylene chloride	mg/Kg	60.4	0.001	0.02	0.002 U	0.0025 U	0.0015 U	0.0019 U	0.0017 U	0.0017 U	0.0016 R	0.0017 U	
Naphthalene	mg/Kg	17.4	4	80	0.00062 U	0.00079 U	0.0044 J	0.0006 U	0.00053 U	0.00052 UJ	0.00048 R	0.00051 U	
n-Butylbenzene	mg/Kg	237			0.00076 U	0.00097 U	0.00056 U	0.00074 U	0.00065 U	0.00063 UJ	0.00059 R	0.00063 U	
n-Propylbenzene	mg/Kg	237			0.0004 U	0.00052 U	0.0003 U	0.00039 U	0.00035 U	0.00034 UJ	0.00032 R	0.00034 U	
o-Xylene	mg/Kg	282	9	180	0.00043 U	0.00055 U	0.00032 U	0.00042 U	0.00037 U	0.00036 U	0.00034 R	0.00036 U	
sec-Butylbenzene	mg/Kg	223			0.00039 U	0.0005 U	0.00029 U	0.00038 U	0.00034 U	0.00033 UJ	0.00031 R	0.00033 U	
Styrene	mg/Kg	1730	0.2	4	0.00044 U	0.00056 U	0.00033 U	0.00043 U	0.00038 U	0.00037 U	0.00035 R	0.00037 U	
tert-Butylbenzene	mg/Kg	393			0.00039 U	0.0005 U	0.00029 U	0.00038 U	0.00034 U	0.00033 UJ	0.00031 R	0.00033 U	
Tetrachloroethene (PCE)	mg/Kg	3.28	0.003	0.06	0.0004 U	0.0047 J	0.0003 U	0.00039 U	0.00035 U	0.00034 U	0.00032 R	0.00034 U	
Toluene	mg/Kg	521	0.6	12	0.00089 U	0.0011 U	0.00066 U	0.00086 U	0.00076 U	0.00074 J	0.00069 R	0.00074 U	
Total Xylene	mg/Kg	214	10	200	0.0011 U	0.0014 U	0.0008 U	0.001 U	0.00093 U	0.00089 U	0.00084 R	0.00089 U	
trans-1,2-Dichloroethene	mg/Kg	600	0.03	0.6	0.0012 U	0.0015 U	0.00088 U	0.0012 U	0.001 U	0.00099 U	0.00093 R	0.00099 U	
trans-1,3-Dichloropropene	mg/Kg				0.00044 U	0.00056 U	0.00033 U	0.00043 U	0.00038 U	0.00037 U	0.00035 R	0.00037 U	
Trichloroethene (TCE)	mg/Kg	5.49	0.003	0.06	0.00049 U	0.00063 U	0.00037 U	0.00048 U	0.00043 U	0.00041 U	0.00038 R	0.00041 U	
Trichlorofluoromethane (Freon 11)	mg/Kg	1980			0.00063 U	0.00081 U	0.00047 U	0.00062 U	0.00055 U	0.00053 U	0.00049 R	0.00053 U	
Vinyl acetate	mg/Kg	2710	8	160	0.00099 UJ	0.0013 UJ	0.00073 U	0.00096 U	0.00085 U	0.00082 U	0.00077 R	0.00082 U	
Vinyl chloride	mg/Kg	1.86	0.0007	0.014	0.00054 U	0.00069 U	0.0004 U	0.00053 U	0.00047 U	0.00045 U	0.00042 R	0.00045 U	

Notes:
-- = Sample not analyzed for this compound
* LCS or LCSD exceeds the control limits
+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise

Table 3-5. Soil Summary - PAHs
Area 5 and Area 8 Soils
TIMET
Henderson, Nevada

					Site Area	Area 5	Area 5	Area 5	Area 8	Area 8	Area 8	Area 8	Area 8
					PSA (If Applicable)	FrancyMtn	FrancyMtn	FrancyMtn	PSA-35	None	None	None	None
					Location	FM-SS-2	FM-SS-2	FM-SS-3	NE-B-3	NE-B-6	NE-B-6	NE-B-7	NE-B-7
					Sample Name	FM-SS-2_SS	FM-SS-2_SS DUP	FM-SS-3_SS	NE-B-3_SS	NE-B-6 0-0.5	NE-B-6 5.0-6.5	NE-B-7 0-0.5	NE-B-7 5.0-6.5
					Start Depth	0	0	0	0	0	5	0	5
					End Depth	0.5	0.5	0.5	0.5	0.5	6.5	0.5	6.5
					Depth Units	ft	ft	ft	ft	ft	ft	ft	ft
					Sample Date	11/20/2013	11/20/2013	11/20/2013	11/22/2013	3/20/2014	3/20/2014	3/20/2014	3/20/2014
					Parent Sample		FM-SS-2_SS_11/20/13						
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20									
Acenaphthene	mg/Kg	2560	29	580	0.034 U	0.034 U	0.034 U	0.036 U	0.035 U	0.035 U	0.035 U	0.035 U	0.036 U
Acenaphthylene	mg/Kg	147			0.034 U	0.034 U	0.034 U	0.036 U	0.035 U	0.035 U	0.035 U	0.035 U	0.036 U
Anthracene	mg/Kg	9920	590	11800	0.034 U	0.034 U	0.034 U	0.036 U	0.46	0.035 U	0.035 U	0.035 U	0.036 U
Benzo(a)anthracene	mg/Kg	2.34	0.08	1.6	0.034 U	0.034 U	0.034 U	0.036 U	1.3	0.035 U	0.035 U	0.035 U	0.036 U
Benzo(a)pyrene	mg/Kg	0.23	0.4	8	0.034 UJ	0.034 U	0.034 U	0.036 U	**0.68**	0.035 U	0.035 U	0.035 U	0.036 U
Benzo(b)fluoranthene	mg/Kg	2.34	0.2	4	0.034 UJ	0.034 U	0.034 U	0.036 U	1.6	0.035 U	0.035 U	0.035 U	0.036 U
Benzo(g,h,i)perylene	mg/Kg	34100			0.034 UJ	0.034 U	0.034 U	0.036 U	0.28 J	0.035 U	0.035 U	0.035 U	0.036 U
Benzo(k)fluoranthene	mg/Kg	23.4	2	40	0.034 UJ	0.034 U	0.034 U	0.036 U	0.67	0.035 U	0.035 U	0.035 U	0.036 U
Chrysene	mg/Kg	234	8	160	0.034 U	0.034 U	0.034 U	0.036 U	2.1	0.035 U	0.035 U	0.035 U	0.036 U
Dibenz(a,h)anthracene	mg/Kg	0.23	.08	1.6	0.034 UJ	0.034 U	0.034 U	0.036 U	0.035 U	0.035 U	0.035 U	0.035 U	0.036 U
Fluoranthene	mg/Kg	24400	210	4200	0.034 U	0.034 U	0.034 U	0.036 U	3.9	0.035 U	0.035 U	0.035 U	0.036 U
Fluorene	mg/Kg	3670	28	560	0.034 U	0.034 U	0.034 U	0.036 U	0.035 U	0.035 U	0.035 U	0.035 U	0.036 U
Indeno(1,2,3-cd)pyrene	mg/Kg	2.34	0.7	14	0.034 UJ	0.034 U	0.034 U	0.036 U	0.32 J	0.035 U	0.035 U	0.035 U	0.036 U
Naphthalene	mg/Kg	17.4	4	80	0.034 U	0.034 U	0.034 U	0.036 U	0.035 U	0.035 U	0.035 U	0.035 U	0.036 U
Phenanthrene	mg/Kg	24.5			0.034 U	0.034 U	0.034 U	0.036 U	2.6	0.035 U	0.035 U	0.035 U	0.036 U
Pyrene	mg/Kg	19300	210	4200	0.034 U	0.034 U	0.034 U	0.036 U	3.3	0.035 U	0.035 U	0.035 U	0.036 U

Notes:
-- = Sample not analyzed for this compound
* LCS or LCSD exceeds the control limits
+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
blue shading = analyte concentration exceeds
comparison level for Industrial Outdoor Worker BCL

Table 3-6. Soil Summary - SVOCs
Analytical Results for Area 8 Soil Samples Collected During Alpha Line Repair
TIMET
Henderson, Nevada

				Site Area	**Area 8**	**Area 8**
				Location	**Alpha Line**	**Alpha Line**
				Sample Name	**AL-1**	**AL-2**
				Start Depth (Below Pre-Existing Grade)	**5**	**2**
				Start Depth (Below Pre-Existing Grade)	**5.5**	**2.5**
				Depth Units	**ft**	**ft**
				Sample Date	**7/30/2014**	**7/30/2014**
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20		
1,2,4,5-Tetrachlorobenzene	mg/Kg	205			0.059 U	0.049 U
1,4-Dioxane	mg/Kg	19.2			0.079 U	0.066 U
2,4,5-Trichlorophenol	mg/Kg	68400	14	280	0.012 U	0.01 U
2,4,6-Trichlorophenol	mg/Kg	174	0.008	0.16	0.012 U	0.01 U
2,4-Dichlorophenol	mg/Kg	2050	0.05	1	0.012 U	0.01 U
2,4-Dimethylphenol	mg/Kg	13700	0.4	8	0.079 U	0.066 U
2,4-Dinitrophenol	mg/Kg	1370	.01	0.2	0.4 U	0.33 U
2,4-Dinitrotoluene	mg/Kg	6.18	0.00004	0.0008	0.079 U	0.066 U
2,6-Dinitrotoluene	mg/Kg	684	0.00003	0.0006	0.034 U	0.028 U
2-Chloronaphthalene	mg/Kg	389			0.012 U	0.01 U
2-Chlorophenol	mg/Kg	1670	0.2	4	0.025 U	0.021 U
2-Methylnaphthalene	mg/Kg				0.023 U	0.019 U
2-Nitroaniline	mg/Kg	2050			0.06 U	0.05 U
2-Nitrophenol	mg/Kg				0.012 U	0.01 U
3,3-Dichlorobenzidine	mg/Kg	4.26	0.0003	0.006	0.11 U	0.09 U
3,4-Methylphenol (m,p-Cresol)	mg/Kg	3420			0.04 U	0.033 U
3-Nitroaniline	mg/Kg				0.088 U	0.073 U
4-Bromophenyl phenyl ether	mg/Kg				0.023 U	0.019 U
4-Chloro-3-methylphenol	mg/Kg				0.079 U	0.066 U
4-Chloroaniline	mg/Kg	9.58	0.03	0.6	0.099 U	0.082 U
4-Chlorophenyl phenyl ether	mg/Kg				0.025 U	0.021 U
4-Nitroaniline	mg/Kg				0.087 U	0.072 U
4-Nitrophenol	mg/Kg	5470			0.12 U	0.097 U
Acenaphthene	mg/Kg	2560	29	580	0.012 U	0.01 U
Acenaphthylene	mg/Kg	147			0.02 U	0.017 U
Acetophenone	mg/Kg	1740			0.024 U	0.02 U
Aniline	mg/Kg	336			0.16 U	0.13 U
Anthracene	mg/Kg	9920	590	11800	0.02 U	0.017 U
Azobenzene	mg/Kg	15.9			0.026 U	0.022 U
Benzo(a)anthracene	mg/Kg	2.34	0.08	1.6	0.024 U	0.02 U
Benzo(a)pyrene	mg/Kg	0.23	0.4	8	0.024 U	0.02 U
Benzo(b)fluoranthene	mg/Kg	2.34	0.2	4	0.032 U	0.026 U
Benzo(g,h,i)perylene	mg/Kg	34100			0.019 U	0.016 U
Benzo(k)fluoranthene	mg/Kg	23.4	2	40	0.048 U	0.04 U
Benzoic acid	mg/Kg	100000	20	400	0.4 U	0.33 U
Benzyl alcohol	mg/Kg	100000			0.38 J	0.21 J
Bis(2-chloroethoxy)methane	mg/Kg				0.028 U	0.023 U
Bis(2-chloroethyl)ether	mg/Kg	1.3	0.00002	0.0004	0.02 U	0.017 U
Bis(2-ethylhexyl)phthalate	mg/Kg	137	180	3600	0.15 J	0.15 J
Bis(chloroisopropyl)ether	mg/Kg	18			0.028 U	0.023 U

Table 3-6. Soil Summary - SVOCs
Analytical Results for Area 8 Soil Samples Collected During Alpha Line Repair
TIMET
Henderson, Nevada

				Site Area	**Area 8**	**Area 8**
				Location	**Alpha Line**	**Alpha Line**
				Sample Name	**AL-1**	**AL-2**
				Start Depth (Below Pre-Existing Grade)	**5**	**2**
				Start Depth (Below Pre-Existing Grade)	**5.5**	**2.5**
				Depth Units	**ft**	**ft**
				Sample Date	**7/30/2014**	**7/30/2014**
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF1	NDEP LBCL DAF20		
Butyl benzyl phthalate	mg/Kg	240	810	16200	0.052 U	0.043 U
Carbazole	mg/Kg	95.8	0.03	0.6	0.043 U	0.036 U
Chrysene	mg/Kg	234	8	160	0.033 U	0.027 U
Dibenz(a,h)anthracene	mg/Kg	0.23	0.08	1.6	0.023 U	0.019 U
Dibenzofuran	mg/Kg	2270			0.024 U	0.02 U
Diethyl phthalate	mg/Kg	100000			0.031 U	0.026 U
Dimethyl phthalate	mg/Kg	100000			0.028 U	0.032 J
Di-n-butyl phthalate	mg/Kg	68400	270	5400	0.035 U	0.029 U
Di-n-octyl phthalate	mg/Kg				0.017 U	0.014 U
Fluoranthene	mg/Kg	24400	210	4200	0.043 U	0.036 U
Fluorene	mg/Kg	3670	28	560	0.022 U	0.018 U
Hexachlorobenzene	mg/Kg	**1.2**	0.1	**2**	0.035 U	0.029 U
Hexachlorobutadiene	mg/Kg	24.6	0.1	2	0.012 U	0.01 U
Hexachlorocyclopentadiene	mg/Kg	4090	20	400	0.06 U	0.05 U
Hexachloroethane	mg/Kg	137	0.02	0.4	0.026 U	0.021 U
Indeno(1,2,3-cd)pyrene	mg/Kg	2.34	0.7	14	0.026 U	0.022 U
Isophorone	mg/Kg	2020	0.03	0.6	0.02 U	0.017 U
Naphthalene	mg/Kg	17.4	4	80	0.037 U	0.031 U
Nitrobenzene	mg/Kg	15.1	0.007	0.14	0.026 U	0.022 U
N-Nitrosodi-n-propylamine (NDPA)	mg/Kg	0.27	2E-06	4E-05	0.037 U	0.031 U
N-Nitrosodiphenylamine (NDFA)	mg/Kg	391	0.06	1.2	0.025 U	0.021 U
Pentachlorobenzene	mg/Kg	547			0.078 U	0.065 U
Pentachlorophenol	mg/Kg	3	0.001	0.02	0.4 U	0.33 U
Phenanthrene	mg/Kg	24.5			0.02 U	0.017 U
Phenol	mg/Kg	100000	5	100	0.022 U	0.018 U
Pyrene	mg/Kg	19300	210	4200	0.015 U	0.016 J

Notes:
J = estimated concentration
U = analyte not detected above referenced laboratory limit
orange shading = analyte concentration exceeds
LBCL DAF20 comparison level
blue shading = analyte concentration exceeds
comparison level for Industrial Outdoor Worker BCL

Table 3-7. Soil Summary - PCBs
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

		Site Area	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 8
		PSA (If Applicable)	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches	DrainageDitches	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn	FrancyMtn	Drainage Ditches
		Location	DD-B-4	DD-B-5	DD-B-6	DD-B-7	DD-B-8	DD-B-9	FM-SS-1	FM-SS-1	FM-SS-2	FM-SS-2	FM-SS-3	FM-SS-4	Alpha Line
		Sample Name	DD-B-4_SS	DD-B-5_SS	DD-B-6_SS	DD-B-7_SS	DD-B-8_SS	DD-B-9_SS	FM-SS-1_SS	FM-SS-1_SS DUP	FM-SS-2_SS	FM-SS-2_SS DUP	FM-SS-3_SS	FM-SS-4_SS	AL-1
		Start Depth	0	0	0	0	0	0	0	0	0	0	0	0	5
		End Depth	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5.5
		Depth Units	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	12/2/2013	11/13/2013	12/3/2013	12/6/2013	12/4/2013	12/3/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	7/30/2014
		Parent Sample								FM-SS-1_SS_11/20/13		FM-SS-2_SS_11/20/13			
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL													
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB 206)	mg/Kg		0.0045	0.00081	0.00036 J	0.0019	0.00036 J	0.00041 J	0.00054 J+	0.00067	0.0002 J	0.00033 J	0.0022	0.0011	0.003
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (PCB 194)	mg/Kg		0.012	0.0012	0.00022 J	0.002	0.00029 J	0.00096	0.00016	0.00019	4.9E-05 J	7.1E-05 J	0.00043 J	0.00031	0.0069
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (PCB 207)	mg/Kg		0.0033	0.0011	0.00034 J	0.0022	0.00042	0.00045	0.00017	0.00021	0.00021 J	0.00037 J	0.00081	0.00048	0.00066 J
2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB 195)	mg/Kg		0.0041	0.00039	5.8E-05 J	0.00065	0.00011 J	0.00031 J	2.1E-05 J	2.6E-05 J	5.6E-06 U	9.9E-06 U	0.00011 J	4.8E-05	0.0026
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (PCB 196)	mg/Kg		0.0057	0.00052	0.00013 J	0.00099	0.00018 J	0.00046	5E-05	5.9E-05	2.6E-05 J	3.7E-05 J	0.00015 J	0.00013	0.0036
2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	mg/Kg		0.036	0.0024	0.0004 J	0.0047 J	0.00069 J+	0.0024	0.00015	0.00017	6.8E-05 J	0.00012 J	0.00033 J	0.00031	0.036
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (PCB 197)	mg/Kg		0.00073	0.00012	4.1E-05 J	0.00028	6.8E-05 J	8.6E-05 J	1.7E-05 J	2.2E-05 J	2.3E-05 J	4.3E-05 J	4.9E-05 J	4.9E-05	0.00019 J
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (PCB 208)	mg/Kg		0.0027	0.00087	0.0003 J	0.0017	0.00031 J	0.00032 J	0.00028	0.00034	0.0002 J	0.00033 J	0.0012	0.00064	0.001 J
2,2',3,3',4,5,5'-Heptachlorobiphenyl (PCB 172)	mg/Kg		0.0051	0.00041	3.8E-05 J	0.00076	9E-05 J	0.00036 J	3E-05 J	3E-05 J	5.7E-06 U	2E-05 J	9.4E-05 J	8.2E-05	0.0047
2,2',3,3',4,5,6,6'-Octachlorobiphenyl (PCB 200)	mg/Kg		0.0012	0.00012	2.4E-05 J	0.00018	2.6E-05 J	6.4E-05 J	2.1E-05 J	2.9E-05 J	8.4E-06 J	1.6E-05 J	0.00017 J	6.8E-05	0.00083 J
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (PCB 201)	mg/Kg		0.0013	0.00019	5.9E-05 J	0.00035	7.9E-05 J	0.00011 J	2.3E-05 J	2.8E-05 J	2.5E-05 J	4.1E-05 J	9.3E-05 J	6.7E-05	0.00076 J
2,2',3,3',4,5,6'-Heptachlorobiphenyl (PCB 174)	mg/Kg		0.031	0.002	0.00029 J	0.0039	0.00057 J+	0.002	0.00013	0.00017	7.5E-05 J	0.00012 J	0.00045 J	0.00031	0.031
2,2',3,3',4,5',6-Heptachlorobiphenyl (PCB 175)	mg/Kg		0.0011	6.8E-05	1.2E-05 U	0.00014	3.3E-05 J	6.8E-05 J	8.7E-06 J	1.2E-05 J	7E-06 U	1.2E-05 U	3.2E-05 J	2.9E-05 J	0.001 J
2,2',3,3',4,5',6'-Heptachlorobiphenyl (PCB 177)	mg/Kg		0.018	0.0011	0.00019 J	0.0023	0.00035 J	0.0011	6.2E-05	7.7E-05	2.8E-05 J	4.6E-05 J	0.00018 J	0.00014	0.017
2,2',3,3',4,5'-Hexachlorobiphenyl (PCB 130)	mg/Kg		0.007 J+	0.0003	6E-05 J	0.00061	9.5E-05 J	0.00032 J	3E-05 J	3.6E-05 J	1.6E-05 J	1.9E-05 J	9.9E-05 J	9.5E-05	0.021 J+
2,2',3,3',4,6,6'-Heptachlorobiphenyl (PCB 176)	mg/Kg		0.0028	0.00013	1.7E-05 J	0.00028	3.5E-05 J	0.00015 J	1.1E-05 J	1.4E-05 J	1E-05 J	1.4E-05 J	4.5E-05 J	3.3E-05 J	0.0029
2,2',3,3',4,6-Hexachlorobiphenyl (PCB 131)	mg/Kg		0.0014 UJ+	2.5E-05 J	2.7E-05 U	8E-05	2.1E-05 U	5.4E-05 J	4.8E-06 J	5.1E-06 J	1E-05 U	1.4E-05 U	3.3E-05 J	1.9E-05 J	0.005 J+
2,2',3,3',4,6'-Hexachlorobiphenyl (PCB 132)	mg/Kg		0.036 J+	0.0011	0.0003 J	0.0027	0.0004 J	0.0018	0.0001	0.00012	8.4E-05 J	0.00012 J	0.00036 J	0.00037	0.13 J
2,2',3,3',4-Pentachlorobiphenyl (PCB 82)	mg/Kg		0.0057 J+	0.00021 J+	9.4E-05 J	0.00092 J+	0.00014 J	0.00044	3.5E-05 J	3.9E-05 J	2.7E-05 J	2.7E-05 J	0.00013 J	0.00015	0.052 J+
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (PCB 202)	mg/Kg		0.0016	0.0002	6.1E-05 J	0.00034	5.8E-05 J	0.00012 J	7.3E-05	9.1E-05	2.6E-05 J	3.9E-05 J	0.00026 J	0.00015	0.0011 J
2,2',3,3',5,5',6-Heptachlorobiphenyl (PCB 178)	mg/Kg		0.0046	0.00026	4.6E-05 J	0.00059	8.4E-05 J	0.00029 J	2.4E-05 J	3.1E-05 J	1.1E-05 J	2.3E-05 J	0.0001 J	6.6E-05	0.0038
2,2',3,3',5,5'-Hexachlorobiphenyl (PCB 133)	mg/Kg		0.0014 UJ+	4.6E-05	2.5E-05 U	0.0001	2E-05 U	5.5E-05 J	6.6E-06 J	7.7E-06 J	9.5E-06 U	1.3E-05 U	4.9E-05 J	2.2E-05 J	0.0024 J+
2,2',3,3',5,6,6'-Heptachlorobiphenyl (PCB 179)	mg/Kg		0.0093	0.00045	6.7E-05 J	0.00097	0.00011 J	0.00049	3.4E-05 J	4.3E-05	2.2E-05 J	3.2E-05 J	0.00014 J	9.1E-05	0.0086
2,2',3,3',5-Pentachlorobiphenyl (PCB 83)	mg/Kg		0.0019 J+	5.3E-05 UJ+	3.2E-05 J	0.00021 J+	3.3E-05 J	0.00011 J	9.8E-06 J	1.2E-05 U	1.1E-05 U	2.2E-05 U	5.5E-05 U	3.4E-05 U	0.02 J+
2,2',3,3',6,6'-Hexachlorobiphenyl (PCB 136)	mg/Kg		0.011 J+	0.00028	4.8E-05 J	0.00068	6.9E-05 J	0.00045	2.3E-05 J	2.9E-05 J	2.1E-05 J	2.5E-05 J	0.00011 J	9.6E-05	0.045
2,2',3,3',6-Pentachlorobiphenyl (PCB 84)	mg/Kg		0.0093 J+	0.0003 J+	0.0001 J	0.0013 J+	0.00013 J	0.00076	4.4E-05	5.4E-05	4E-05 J	4.9E-05 J	0.00019 J	0.00013	0.09 J+
2,2',3,4,4',5,5',6-Octachlorobiphenyl (PCB 203)	mg/Kg		0.0071	0.00064	0.00018 J	0.0013	0.0002 J	0.00055	0.00012	0.00016	4.5E-05 J	7.2E-05 J	0.00055 J	0.00031	0.0046
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (PCB 204)	mg/Kg		0.00011 J	3.1E-05 J	6.3E-06 U	5.9E-05	2.9E-05 J	9.3E-06 U	9.1E-06 J	9.1E-06 J	7E-06 J	9E-06 J	4.1E-05 J	3.1E-05 J	2.1E-05 U
2,2',3,4,4',5,6-Heptachlorobiphenyl (PCB 181)	mg/Kg		4.5E-05 U	4.2E-06 U	9.7E-06 U	3.3E-05 J	8.2E-06 U	1.1E-05 U	4.2E-06 J	5.6E-06 J	4.7E-06 U	8.1E-06 U	3.4E-05 J	1E-05 J	0.00053 J
2,2',3,4,4',5,6'-Heptachlorobiphenyl (PCB 182)	mg/Kg		2.1E-05 U	2E-06 U	1.2E-05 U	3.1E-05 J	9E-06 U	1.3E-05 J	4.1E-06 J	4.9E-06 J	6.5E-06 U	1.1E-05 U	1.6E-05 J	1.3E-05 J	0.00021 J
2,2',3,4,4',5',6-Heptachlorobiphenyl (PCB 183)	mg/Kg		0.016	0.001	0.00016 J	0.0019	0.00028 J	0.001	7E-05	8.3E-05	3.8E-05 J	5.5E-05 J	0.0002 J	0.00019	0.013
2,2',3,4,4',5-Hexachlorobiphenyl (PCB 137)	mg/Kg		0.005 J+	0.00016	4.4E-05 J	0.0004	6.4E-05 J	0.0002 J	1.7E-05 J	2E-05 J	1.3E-05 J	1.5E-05 J	6.5E-05 J	7.4E-05	0.015 J+
2,2',3,4,4',6,6'-Heptachlorobiphenyl (PCB 184)	mg/Kg		0.00011 J	2.3E-05 J	9.3E-06 U	4.3E-05 J	1.8E-05 J	1.1E-05 J	5.7E-06 J	7.1E-06 J	5.9E-06 J	8.8E-06 U	2.3E-05 J	2.1E-05 J	2.8E-05 U
2,2',3,4,5,5',6-Heptachlorobiphenyl (PCB 185)	mg/Kg		0.0013	0.00016	2.9E-05 J	0.00036	4.8E-05 J	8.8E-05 J	3.6E-05 J	6.8E-05	1.4E-05 J	3E-05 J	0.00054 J	0.00014 J+	0.0028
2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187)	mg/Kg		0.031	0.0018	0.00031 J	0.0038	0.00056 J+	0.0019	0.00019	0.00024	9.4E-05 J	0.00014 J	0.0007 J	0.00048	0.023
2,2',3,4,5,5'-Hexachlorobiphenyl (PCB 141)	mg/Kg		0.02 J+	0.00078	0.00016 J	0.0018	0.00024 J	0.0012	9.2E-05	0.00012	5.6E-05 J	7.4E-05 J	0.00048 J	0.00029	0.044 J+
2,2',3,4',5,5'-Hexachlorobiphenyl (PCB 146)	mg/Kg		0.016 J+	0.00061	0.00013 J	0.0014	0.00021 J	0.00075	5.6E-05	6.8E-05	3.7E-05 J	4.4E-05 J	0.00022 J	0.00018	0.028 J+
2,2',3,4,5,6,6'-Heptachlorobiphenyl (PCB 186)	mg/Kg		1.6E-05 U	1.5E-06 U	8.8E-06 U	2.4E-06 U	6.9E-06 U	4.1E-06 U	1.2E-06 J	1.7E-06 J	5E-06 U	8.3E-06 U	9.3E-06 J	4.9E-06 J	2.6E-05 U
2,2',3,4',5,6,6'-Heptachlorobiphenyl (PCB 188)	mg/Kg		6.9E-05 J	2E-05 J	9.6E-06 U	2.9E-05 J	7.1E-06 U	4.5E-06 U	3.6E-06 J	5.3E-06 J	4.4E-06 U	7.7E-06 U	1.3E-05 J	1.2E-05 J	2.6E-05 U
2,2',3,4,5,6-Hexachlorobiphenyl (PCB 142)	mg/Kg		0.0013 UJ+	2.2E-05 U	2.5E-05 U	3.1E-05 U	1.9E-05 U	4.4E-05 U	6.6E-06 J	1E-05 J	9.3E-06 U	1.3E-05 U	9.1E-05 J	2.8E-05 J	0.0018 UJ+
2,2',3,4,5',6-Hexachlorobiphenyl (PCB 144)	mg/Kg		0.0047 J+	0.00014	3.3E-05 J	0.00033	4.2E-05 J	0.00022 J	1.5E-05 J	2E-05 J	1E-05 J	1.2E-05 J	0.0001 J	5.8E-05	0.011 J+
2,2',3,4',5,6'-Hexachlorobiphenyl (PCB 148)	mg/Kg		0.0012 UJ+	2E-05 U	2.2E-05 U	2.8E-05 U	1.7E-05 U	3.9E-05 U	2.4E-06 U	3.6E-06 U	8.3E-06 U	1.1E-05 U	1.7E-05 U	9.9E-06 U	0.0016 UJ+
2,2',3,4,6,6'-Hexachlorobiphenyl (PCB 145)	mg/Kg		0.00086 UJ+	1.4E-05 U	1.6E-05 U	2E-05 U	1.2E-05 U	2.8E-05 U	1.8E-06 U	2.6E-06 U	6E-06 U	8.1E-06 U	1.2E-05 U	7.1E-06 U	0.0012 U
2,2',3,4',6,6'-Hexachlorobiphenyl (PCB 150)	mg/Kg		0.0008 UJ+	1.3E-05 U	1.5E-05 U	1.9E-05 U	1.2E-05 U	2.6E-05 U	1.6E-06 U	2.4E-06 U	5.6E-06 U	7.5E-06 U	1.1E-05 U	6.7E-06 U	0.0011 U
2,2',3,4,6'-Pentachlorobiphenyl (PCB 89)	mg/Kg		0.0012 UJ+	4.2E-05 UJ+	2.4E-05 U	8.8E-05 UJ+	2.3E-05 U	7.6E-05 U	7.2E-06 U	9.7E-06 U	8.9E-06 U	1.7E-05 U	4.4E-05 U	2.7E-05 U	0.0068 UJ+
2,2',3,4-Tetrachlorobiphenyl (PCB 41)	mg/Kg		0.00012 J	2.5E-05 J	1.6E-05 U	0.0008	1E-05 J	1.9E-05 J	3.3E-06 J	4.8E-06 J	6.9E-06 U	1.2E-05 U	2.4E-05 J	1.2E-05 J	0.0001 U
2,2',3,4'-Tetrachlorobiphenyl (PCB 42)	mg/Kg		0.00045	8.7E-05	1.4E-05 U	0.0013	3.3E-05 J	9.2E-05 J	9.4E-06 J	1.2E-05 J	5.9E-06 U	1E-05 U	4.1E-05 J	3.1E-05 J	0.00087 J
2,2',3,5,5'-Pentachlorobiphenyl (PCB 92)	mg/Kg		0.015 J+	0.00027	6.9E-05 J	0.00097 J+	0.0001 J	0.00066	3.8E-05 J	4.7E-05	3.3E-05 J	5.2E-05 J	0.00021 J	0.0002	0.1 J+
2,2',3,5,6,6'-Hexachlorobiphenyl (PCB 152)	mg/Kg		0.00082 UJ+	1.4E-05 U	1.5E-05 U	1.9E-05 U	1.2E-05 U	2.7E-05 U	1.7E-06 U	2.5E-06 U	5.7E-06 U	7.7E-06 U	1.2E-05 U	6.8E-06 U	0.0011 U
2,2',3,5,6'-Pentachlorobiphenyl (PCB 94)	mg/Kg		0.0011 UJ+	3.9E-05 U	2.3E-05 U	8.3E-05 UJ+	2.2E-05 U	7.2E-05 U	6.8E-06 U	9.2E-06 U	8.4E-06 U	1.6E-05 U	4.1E-05 U	2.5E-05 U	0.0065 UJ+
2,2',3,5',6-Pentachlorobiphenyl (PCB 95)	mg/Kg		0.053 J+	0.0011	0.00028 J	0.0038 J+	0.00035 J	0.0026	0.0001	0.00013	0.00013 J	0.00017 J	0.0007 J	0.00048	0.4 J
2,2',3,5-Tetrachlorobiphenyl (PCB 43)	mg/Kg		3.9E-05 U	1.2E-05 J	1.4E-05 U	0.00013	8.5E-06 U	6.6E-06 U	2.3E-06 J	3.1E-06 J	6.1E-06 U	1E-05 U	2E-05 J	1E-05 J	9.2E-05 U
2,2',3,6,6'-Pentachlorobiphenyl (PCB 96)	mg/Kg		0.00011 J	3.9E-06 J	7.3E-06 U	3.6E-05 J	4.9E-06 U	5.6E-06 J	6.5E-07 J	1E-06 J	2.9E-06 U	5E-06 U	3.9E-06 J	4E-06 J	0.001 J
2,2',3,6-Tetrachlorobiphenyl (PCB 45)	mg/Kg		0.00017 J	4.2E-05	1.4E-05 U	0.0007	1.1E-05 J	1.9E-05 J	3.5E-06 J	3.9E-06 J	6E-06 U	1E-05 U	2.7E-05 J	1.1E-05 J	9E-05 U

Table 3-7. Soil Summary - PCBs
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	Area 5 DrainageDitches DD-B-4 DD-B-4_SS 0 0.5 ft 12/2/2013	Area 5 DrainageDitches DD-B-5 DD-B-5_SS 0 0.5 ft 11/13/2013	Area 5 DrainageDitches DD-B-6 DD-B-6_SS 0 0.5 ft 12/3/2013	Area 5 DrainageDitches DD-B-7 DD-B-7_SS 0 0.5 ft 12/6/2013	Area 5 DrainageDitches DD-B-8 DD-B-8_SS 0 0.5 ft 12/4/2013	Area 5 DrainageDitches DD-B-9 DD-B-9_SS 0 0.5 ft 12/3/2013	Area 5 FrancyMtn FM-SS-1 FM-SS-1_SS 0 0.5 ft 11/20/2013	Area 5 FrancyMtn FM-SS-1 FM-SS-1_SS DUP 0 0.5 ft 11/20/2013 FM-SS-1_SS_11/20/13	Area 5 FrancyMtn FM-SS-2 FM-SS-2_SS 0 0.5 ft 11/20/2013	Area 5 FrancyMtn FM-SS-2 FM-SS-2_SS DUP 0 0.5 ft 11/20/2013 FM-SS-2_SS_11/20/13	Area 5 FrancyMtn FM-SS-3 FM-SS-3_SS 0 0.5 ft 11/20/2013	Area 5 FrancyMtn FM-SS-4 FM-SS-4_SS 0 0.5 ft 11/20/2013	Area 8 Drainage Ditches Alpha Line AL-1 5 5.5 ft 7/30/2014
2,2',3,6'-Tetrachlorobiphenyl (PCB 46)	mg/Kg		7E-05 J	1.6E-05 J	1.5E-05 U	0.00034	8.9E-06 U	6.9E-06 U	7.8E-07 J	1.9E-06 J	6.4E-06 U	1.1E-05 U	7.2E-06 U	5.2E-06 J	9.6E-05 U
2,2',3-Trichlorobiphenyl (PCB 16)	mg/Kg		0.00032 J	7.7E-05	4.3E-05 U	0.00093	2.2E-05 U	3.1E-05 J	6.3E-06 J	9E-06 J	3.4E-05 U	5.4E-05 U	3.6E-05 J	2.4E-05 J	7.4E-05 U
2,2',4,4',5,6'-Hexachlorobiphenyl (PCB 154)	mg/Kg		0.0011 UJ+	2.4E-05 J	2E-05 U	5.1E-05 J+	1.5E-05 U	3.5E-05 U	3.1E-06 J	3.2E-06 U	7.4E-06 U	9.9E-06 U	1.6E-05 J	1.3E-05 J	0.0017 J+
2,2',4,4',5-Pentachlorobiphenyl (PCB 99)	mg/Kg		0.039 J+	0.00089	0.00025 J	0.0029 J+	0.00038 J	0.0017	0.00011	0.00013	9.4E-05 J	0.00013 J	0.00045 J	0.00059	0.23 J
2,2',4,4',6,6'-Hexachlorobiphenyl (PCB 155)	mg/Kg		0.00089 UJ+	1.7E-05 U	1.7E-05 U	2.3E-05 U	1.3E-05 U	3E-05 U	2.3E-06 U	3.3E-06 U	5.5E-06 U	7.1E-06 U	1.1E-05 U	9E-06 U	0.0012 U
2,2',4,5',6-Pentachlorobiphenyl (PCB 103)	mg/Kg		0.00099 UJ+	3.4E-05 U	2E-05 U	7.2E-05 UJ+	1.9E-05 U	6.3E-05 U	5.9E-06 U	8E-06 U	7.3E-06 U	1.4E-05 U	3.6E-05 U	2.2E-05 U	0.0056 UJ+
2,2',4,5-Tetrachlorobiphenyl (PCB 48)	mg/Kg		0.00024 J	4.8E-05	1.2E-05 U	0.0011	1.5E-05 J	4.6E-05 J	9.2E-06 J	1.4E-05 J	5.5E-06 U	9.2E-06 U	7.9E-05 J	4E-05 J	0.00036 J
2,2',4,6,6'-Pentachlorobiphenyl (PCB 104)	mg/Kg		6.2E-06 U	4E-07 J	7.1E-06 U	8.6E-07 J	4.8E-06 U	4E-06 U	4E-07 J	1.4E-06 J	2.6E-06 U	4.1E-06 U	3.1E-06 U	2.4E-06 J	1.4E-05 U
2,2',4,6'-Tetrachlorobiphenyl (PCB 51)	mg/Kg		4E-05 J	9.9E-06 J	1.1E-05 U	0.0002	7E-06 U	5.4E-06 U	8.1E-07 J	8.7E-07 J	5E-06 U	8.4E-06 U	5.7E-06 U	2.2E-06 J	7.5E-05 U
2,2',4-Trichlorobiphenyl (PCB 17)	mg/Kg		0.00021 J	3.1E-05 J	3E-05 U	0.00081	1.6E-05 U	2.1E-05 J	4.4E-06 J	7.5E-06 J	2.4E-05 U	3.8E-05 U	2.5E-05 J	2E-05 J	5.2E-05 U
2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	mg/Kg		0.021	0.00067	0.00019 J	0.0054 J	0.00023 J	0.0013	0.00011	0.00015	0.0001 J	0.00013 J	0.00073 J	0.00075	0.076
2,2',6,6'-Tetrachlorobiphenyl (PCB 54)	mg/Kg		8E-06 U	7.6E-07 U	1.5E-05 U	1.4E-05 J	1E-05 U	5.8E-06 U	2.9E-07 U	1.4E-06 J	5.6E-06 U	1.1E-05 U	7.8E-06 U	1.3E-06 J	1.6E-05 U
2,2',6-Trichlorobiphenyl (PCB 19)	mg/Kg		5.7E-05 J	1.8E-05 J	3.3E-05 U	0.00029	1.9E-05 U	1.7E-05 U	1.2E-06 J	3E-06 J	2.5E-05 U	3.7E-05 U	2.2E-05 U	4.5E-06 J	4.7E-05 U
2,2'-Dichlorobiphenyl (PCB 4)	mg/Kg		0.00051 J+	9.4E-05	0.00033 U	0.00015 J+	0.00014 U	7E-05 U	9E-06 U	1.3E-05 J	0.00015 U	0.00017 U	0.00011 U	2.8E-05 J	0.00028 U
2,3,3',4,4',5,5',6-Octachlorobiphenyl (PCB 205)	mg/Kg		0.0007	0.00011	1.5E-05 J	0.00015	4.3E-05 J	6E-05 J	2E-05 J	3E-05 J	8.5E-06 J	9E-06 U	0.00014 J	7E-05	0.00042 J
2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	mg/Kg		0.0014	9.2E-05	1.3E-05 U	0.00018	3.6E-05 J	8.2E-05	1E-05	1.4E-05	7.8E-06 U	1.4E-05 U	5.5E-05 J	3.2E-05	0.0012
2,3,3',4,4',5,6-Heptachlorobiphenyl (PCB 190)	mg/Kg		0.0071	0.00051	6.8E-05 J	0.00097	0.00012 J	0.00053	4.7E-05	7.1E-05	1.3E-05 J	3E-05 J	0.00025 J	0.00015	0.0062
2,3,3',4,4',5',6-Heptachlorobiphenyl (PCB 191)	mg/Kg		0.0014	0.00013	1.5E-05 J	0.00019	2.1E-05 J	7.6E-05 J	1E-05 J	1.3E-05 J	4.1E-06 U	7.2E-06 U	2.6E-05 J	2.8E-05 J	0.0013
2,3,3',4,4',6-Hexachlorobiphenyl (PCB 158)	mg/Kg		0.013 J+	0.00055	0.00015 J	0.0011	0.00019 J	0.00068	5.2E-05	6.1E-05	3E-05 J	3.3E-05 J	0.00017 J	0.00016	0.031
2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	mg/Kg		0.03 J+	0.0014 J+	0.00049	0.0031 J+	0.00068 J+	0.0016 J+	0.00017 J+	0.0002 J+	0.00012	0.00018	0.0006	0.00066 J+	0.2 J
2,3,3',4,5,5',6-Heptachlorobiphenyl (PCB 192)	mg/Kg		4.1E-05 U	3.8E-06 U	8.9E-06 U	7.7E-06 U	7.5E-06 U	1E-05 U	2.8E-06 J	4.4E-06 J	4.3E-06 U	7.4E-06 U	1.2E-05 J	1E-05 J	5.9E-05 U
2,3,3',4,5,5'-Hexachlorobiphenyl (PCB 159)	mg/Kg		0.00015 U	5.4E-05	1.1E-05 U	9.4E-05	8.3E-06 U	1.4E-05 U	3.5E-06 J	4.2E-06 U	5.4E-06 U	8.6E-06 U	2.5E-05 U	1E-05 U	0.00036 U
2,3,3',4',5,5'-Hexachlorobiphenyl (PCB 162)	mg/Kg		0.00043 J	5.5E-05	1.1E-05 U	4.1E-05 J	8E-06 U	1.5E-05 J	4.9E-06 J	4.1E-06 U	5.2E-06 U	8.3E-06 U	2.4E-05 U	9.6E-06 U	0.0008 J
2,3,3',4,5,6-Hexachlorobiphenyl (PCB 160)	mg/Kg		0.0011 UJ+	1.7E-05 U	2E-05 U	2.4E-05 U	1.5E-05 U	3.5E-05 U	1.3E-05 J	2E-05 J	7.4E-06 U	9.9E-06 U	0.00016 J	5.6E-05	0.0014 UJ+
2,3,3',4,5',6-Hexachlorobiphenyl (PCB 161)	mg/Kg		0.00092 UJ+	1.5E-05 U	1.7E-05 U	2.1E-05 U	1.3E-05 U	3E-05 U	1.9E-06 U	2.8E-06 U	6.4E-06 U	8.6E-06 U	1.3E-05 U	7.6E-06 U	0.0012 U
2,3,3',4',5',6-Hexachlorobiphenyl (PCB 164)	mg/Kg		0.0084 J+	0.00037	6.4E-05 J	0.00075	0.00013 J	0.00046	3.4E-05 J	4E-05	1.7E-05 J	3.2E-05 J	9.9E-05 J	9.9E-05	0.021 J+
2,3,3',4,5-Pentachlorobiphenyl (PCB 106)	mg/Kg		0.00096 UJ+	3.3E-05 U	2E-05 U	7E-05 UJ+	1.9E-05 U	6.1E-05 U	7.2E-06 J	1.3E-05 J	7.1E-06 U	1.4E-05 U	9E-05 J	4E-05 J	0.0055 UJ+
2,3,3',4',5'-Pentachlorobiphenyl (PCB 122)	mg/Kg		0.00098 UJ+	3.4E-05 U	2E-05 U	7.2E-05 UJ+	1.9E-05 U	6.3E-05 U	5.9E-06 U	7.9E-06 U	7.3E-06 U	1.4E-05 U	3.6E-05 U	2.2E-05 U	0.0073 J+
2,3,3',4,6-Pentachlorobiphenyl (PCB 109)	mg/Kg		0.0051 J+	0.00021	4.6E-05 J	0.00036 J+	6.8E-05 J	0.00024 J	2.4E-05 J	2.7E-05 J	1.4E-05 J	1.7E-05 J	7.6E-05 J	8.5E-05	0.022 J+
2,3,3',4-Tetrachlorobiphenyl (PCB 55)	mg/Kg		0.00011 U	9E-06 U	1.5E-05 U	3.1E-05 U	1.2E-05 U	1.6E-05 U	5.3E-06 U	6.4E-06 U	6.7E-06 U	1.2E-05 U	4.1E-05 U	1.7E-05 U	0.00076 U
2,3,3',4'-Tetrachlorobiphenyl (PCB 56)	mg/Kg		0.0022	0.00025	4.8E-05 J	0.0031	0.00017 J	0.00023 J	3.1E-05 J	3.8E-05 J	1.5E-05 J	2.6E-05 J	0.00011 J	9.8E-05	0.014
2,3,3',5,5',6-Hexachlorobiphenyl (PCB 165)	mg/Kg		0.0011 UJ+	1.8E-05 U	2E-05 U	2.5E-05 U	1.5E-05 U	3.5E-05 U	2.2E-06 U	3.2E-06 U	7.4E-06 U	1E-05 U	1.5E-05 U	8.8E-06 U	0.0014 UJ+
2,3,3',5,5'-Pentachlorobiphenyl (PCB 111)	mg/Kg		0.00078 UJ+	2.7E-05 U	1.6E-05 U	5.7E-05 UJ+	1.5E-05 U	5E-05 U	4.7E-06 U	6.3E-06 U	5.8E-06 U	1.1E-05 U	2.9E-05 U	1.8E-05 U	0.0045 UJ+
2,3,3',5,6-Pentachlorobiphenyl (PCB 112)	mg/Kg		0.00075 UJ+	2.6E-05 U	1.5E-05 U	5.5E-05 UJ+	1.5E-05 U	4.8E-05 U	4.5E-06 U	6.1E-06 U	5.6E-06 U	1.1E-05 U	2.8E-05 U	1.7E-05 U	0.0043 UJ+
2,3,3',5-Tetrachlorobiphenyl (PCB 57)	mg/Kg		0.00011 U	8.9E-06 U	1.4E-05 U	3.1E-05 U	1.1E-05 U	1.6E-05 U	5.2E-06 U	6.3E-06 U	6.6E-06 U	1.2E-05 U	4.1E-05 U	1.6E-05 U	0.00074 U
2,3,3',5'-Tetrachlorobiphenyl (PCB 58)	mg/Kg		0.00011 U	3.2E-05 J	1.5E-05 U	3.1E-05 U	1.2E-05 U	1.6E-05 U	5.2E-06 U	6.3E-06 U	6.6E-06 U	1.2E-05 U	4.1E-05 U	1.7E-05 U	0.00075 U
2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	mg/Kg		0.0054 J+	0.00027 J+	6.1E-05 J+	0.0005 J+	9.3E-05 J+	0.00032	2.5E-05	2.9E-05	1.3E-05 J	2.1E-05 J	7.1E-05 J	7.5E-05 J+	0.01 J+
2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	mg/Kg		0.00099 UJ+	5.8E-05 J+	1.9E-05 U	0.0001 J+	1.9E-05 U	6.1E-05 UJ+	1.3E-05 J+	1.8E-05 J+	7.2E-06 U	1.5E-05 U	9.5E-05 J+	5.4E-05 J+	0.0056 UJ+
2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	mg/Kg		0.077 J	0.0025 J+	0.00082	0.0051 J	0.00097 J+	0.0037 J+	0.00035 J+	0.0004 J+	0.00022 J+	0.00038 J+	0.0012	0.0015 J+	0.39 J
2,3',4,4',5'-Pentachlorobiphenyl (PCB 123)	mg/Kg		0.00089 UJ+	4.1E-05 J+	2E-05 U	8.8E-05 J+	1.7E-05 UJ+	5.9E-05 UJ+	5.3E-06 UJ+	7.4E-06 UJ+	7.2E-06 U	1.4E-05 U	3.4E-05 U	2E-05 UJ+	0.0054 UJ+
2,3,4,4',6-Pentachlorobiphenyl (PCB 115)	mg/Kg		0.11	--	--	--	0.0013 J+	0.0054	--	--	0.00028 J	0.00037 J	0.0012 J	--	--
2,3,4,4'-Tetrachlorobiphenyl (PCB 60)	mg/Kg		0.0008	0.00015	1.5E-05 U	0.0019	9.7E-05 J	0.00011 J	1.3E-05 J	2E-05 J	7.2E-06 J	1.7E-05 J	5.5E-05 J	4.7E-05	0.0044
2,3',4,4'-Tetrachlorobiphenyl (PCB 66)	mg/Kg		0.006	0.00055	0.00011 J	0.0061 J	0.00037 J	0.00052	7.5E-05	8.7E-05	4.1E-05 J	6.8E-05 J	0.00026 J	0.00016	0.072
2,3',4,5,5'-Pentachlorobiphenyl (PCB 120)	mg/Kg		0.00083 UJ+	2.9E-05 U	1.7E-05 U	6.1E-05 UJ+	1.6E-05 U	5.3E-05 U	5E-06 U	6.7E-06 U	6.2E-06 U	1.2E-05 U	3E-05 U	1.9E-05 U	0.0047 UJ+
2,3',4,5',6-Pentachlorobiphenyl (PCB 121)	mg/Kg		0.00078 UJ+	2.7E-05 U	1.6E-05 U	5.7E-05 UJ+	1.5E-05 U	5E-05 U	4.7E-06 U	6.3E-06 U	5.8E-06 U	1.1E-05 U	2.8E-05 U	1.8E-05 U	0.0044 UJ+
2,3,4',5-Tetrachlorobiphenyl (PCB 63)	mg/Kg		0.0001 U	2.1E-05 J	1.4E-05 U	0.00017 J+	1.1E-05 U	1.5E-05 U	4.9E-06 U	5.9E-06 U	6.2E-06 U	1.1E-05 U	3.8E-05 U	1.5E-05 U	0.0013
2,3',4,5-Tetrachlorobiphenyl (PCB 67)	mg/Kg		0.0001 U	1.2E-05 J	1.4E-05 U	0.00011	1.1E-05 U	1.5E-05 U	4.8E-06 U	5.9E-06 U	6.2E-06 U	1.1E-05 U	3.8E-05 U	1.5E-05 U	0.0007 U
2,3',4,5'-Tetrachlorobiphenyl (PCB 68)	mg/Kg		9.8E-05 U	7.9E-06 U	1.3E-05 U	2.7E-05 U	1E-05 U	1.4E-05 U	4.6E-06 U	5.6E-06 U	5.9E-06 U	1.1E-05 U	3.6E-05 U	1.5E-05 U	0.00067 U
2,3,4',6-Tetrachlorobiphenyl (PCB 64)	mg/Kg		0.003	0.00019	3E-05 J	0.0019	7.9E-05 J	0.00022 J	2E-05 J	2.6E-05 J	1E-05 J	1.8E-05 J	9.7E-05 J	7.9E-05	0.015
2,3,4'-Trichlorobiphenyl (PCB 22)	mg/Kg		0.00056	0.00013	1.6E-05 U	0.0021 J+	7.4E-05 J	9.9E-05 J	1E-05 J	1.3E-05 J	9E-06 U	1.5E-05 J	4.3E-05 J	3.2E-05 J	6.1E-05 U
2,3',4-Trichlorobiphenyl (PCB 25)	mg/Kg		7E-05 J	1.1E-05 J	1.5E-05 U	0.00011 J+	8E-06 U	1.3E-05 J	2.2E-06 J	3.3E-06 J	7.9E-06 U	9.8E-06 U	1.7E-05 U	8.8E-06 J	5.3E-05 U
2,3',5,5'-Tetrachlorobiphenyl (PCB 72)	mg/Kg		0.00011 U	8.6E-06 U	1.4E-05 U	3E-05 U	1.1E-05 U	1.5E-05 U	5E-06 U	6.1E-06 U	6.4E-06 U	1.1E-05 U	3.9E-05 U	1.6E-05 U	0.00072 U
2,3',5',6-Tetrachlorobiphenyl (PCB 73)	mg/Kg		2.7E-05 U	4.3E-07 U	9.6E-06 U	3.6E-06 U	5.9E-06 U	4.6E-06 U	3.5E-07 U	3.5E-07 U	4.2E-06 U	7.1E-06 U	4.8E-06 U	1.5E-06 J	6.3E-05 U
2,3,5-Trichlorobiphenyl (PCB 23)	mg/Kg		3.2E-05 U	4.5E-06 U	1.4E-05 U	4.1E-05 U	7.8E-06 U	8.4E-06 U	2E-06 U	2.5E-06 U	7.6E-06 U	9.5E-06 U	1.6E-05 U	6.1E-06 U	5.2E-05 U

Table 3-7. Soil Summary - PCBs
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

		Site Area	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 8 Drainage Ditches
		PSA (If Applicable)													
		Location	DD-B-4	DD-B-5	DD-B-6	DD-B-7	DD-B-8	DD-B-9	FM-SS-1	FM-SS-1	FM-SS-2	FM-SS-2	FM-SS-3	FM-SS-4	Alpha Line
		Sample Name	DD-B-4_SS	DD-B-5_SS	DD-B-6_SS	DD-B-7_SS	DD-B-8_SS	DD-B-9_SS	FM-SS-1_SS	FM-SS-1_SS DUP	FM-SS-2_SS	FM-SS-2_SS DUP	FM-SS-3_SS	FM-SS-4_SS	AL-1
		Start Depth	0	0	0	0	0	0	0	0	0	0	0	0	5
		End Depth	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5.5
		Depth Units	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	12/2/2013	11/13/2013	12/3/2013	12/6/2013	12/4/2013	12/3/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	7/30/2014
		Parent Sample								FM-SS-1_SS_11/20/13		FM-SS-2_SS_11/20/13			
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL													
2,3',5'-Trichlorobiphenyl (PCB 34)	mg/Kg		3.4E-05 U	4.6E-06 U	1.5E-05 U	4.3E-05 U	8.1E-06 U	8.8E-06 U	2.1E-06 U	2.6E-06 U	7.9E-06 U	9.9E-06 U	1.7E-05 U	6.4E-06 U	5.4E-05 U
2,3,6-Trichlorobiphenyl (PCB 24)	mg/Kg		1.2E-05 U	2.3E-06 J	2.2E-05 U	3.7E-05 J	1.2E-05 U	1E-05 U	7.4E-07 J	1.2E-06 J	1.8E-05 U	2.8E-05 U	1.3E-05 U	3.4E-06 J	3.8E-05 U
2,3',6-Trichlorobiphenyl (PCB 27)	mg/Kg		4.2E-05 J	1.4E-05 J	2.3E-05 U	0.00019	1.2E-05 U	1E-05 U	1.2E-06 J	1.6E-06 J	1.8E-05 U	2.8E-05 U	1.3E-05 U	4.4E-06 J	3.9E-05 U
2,3-Dichlorobiphenyl (PCB 5)	mg/Kg		0.00013 U	1.1E-05 J	0.00031 U	1.1E-05 U	0.0002 U	0.00011 U	8.4E-06 U	6.1E-06 U	0.00016 U	0.00023 U	0.00012 U	1.8E-05 U	0.00038 U
2,3'-Dichlorobiphenyl (PCB 6)	mg/Kg		0.00047 J+	0.0001	0.00031 U	0.00013	0.0002 U	0.00011 U	9.1E-06 J	1.2E-05 J	0.00016 U	0.00023 U	0.00012 U	3.3E-05 J	0.00038 U
2,4',5-Trichlorobiphenyl (PCB 31)	mg/Kg		0.001	0.00019	4.8E-05 J	0.003	0.00013 J	0.00018 J	2.7E-05 J	3.5E-05 J	1.2E-05 J	3.6E-05 J	0.00015 J	9.7E-05	0.0002 J
2,4',6-Trichlorobiphenyl (PCB 32)	mg/Kg		0.00014 J	4.4E-05	1.8E-05 U	0.0005	9.1E-06 U	2.2E-05 J	3.1E-06 J	4.9E-06 J	1.4E-05 U	2.2E-05 U	1.6E-05 J	1.1E-05 J	3E-05 U
2,4-Dichlorobiphenyl (PCB 7)	mg/Kg		0.00012 U	7.2E-06 UJ+	0.00029 U	1E-05 U	0.00019 U	0.0001 U	7.9E-06 U	5.7E-06 U	0.00015 U	0.00021 U	0.00011 U	1.7E-05 U	0.00036 U
2,4'-Dichlorobiphenyl (PCB 8)	mg/Kg		0.00086 J+	0.00015	0.00031 U	0.00044	0.00019 U	0.00011 U	1.4E-05 J	2.6E-05 J	0.00016 U	0.00022 U	0.00012 U	5.5E-05	0.00037 U
2,5-Dichlorobiphenyl (PCB 9)	mg/Kg		0.00014 U	3.4E-05 J	0.00033 U	2.3E-05 J	0.00021 U	0.00012 U	8.9E-06 U	6.5E-06 U	0.00017 U	0.00024 U	0.00013 U	2E-05 U	0.0004 U
2,6-Dichlorobiphenyl (PCB 10)	mg/Kg		5.6E-05 U	5.3E-06 U	0.00021 U	1.7E-05 U	8.1E-05 U	4.3E-05 U	5.2E-06 U	3.9E-06 U	0.0001 U	0.00012 U	6.7E-05 U	2.7E-06 U	0.00025 U
2-Chlorobiphenyl (PCB 1)	mg/Kg		0.0003 J	8.2E-05	6.8E-06 U	0.00012	3.6E-05 J	1.3E-05 J	9.8E-06 J	1.4E-05 J	3.5E-06 U	3.6E-06 U	6.6E-05 J	4.3E-05 J+	1.1E-05 U
3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	mg/Kg		0.00016 UJ+	1E-05 UJ+	1.3E-05 U	1.2E-05 UJ+	9E-06 U	1.4E-05 U	3E-06 U	4.3E-06 UJ+	7.8E-06 U	1.3E-05 U	3.4E-05 U	1.1E-05 J+	0.00052 UJ+
3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	mg/Kg		0.0011 UJ+	8.6E-05 J+	2.4E-05 U	0.00015 J+	2.6E-05 U	7.1E-05 UJ+	1.2E-05 J+	1.4E-05 J+	1E-05 U	2.2E-05 U	4.9E-05 U	3.1E-05 J+	0.0094 UJ+
3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	mg/Kg		0.0017 J+	0.00026 J+	6.1E-05 J+	0.001 J+	0.00013 J+	0.00015	6.2E-05 J+	7.5E-05 J+	1.6E-05 J	3.6E-05 J	9.3E-05	7.2E-05 J+	0.0012 UJ+
3,3',4,5,5'-Pentachlorobiphenyl (PCB 127)	mg/Kg		0.00096 UJ+	3.3E-05 U	1.9E-05 U	7E-05 UJ+	1.9E-05 U	6.1E-05 U	5.8E-06 U	7.8E-06 U	7.1E-06 U	1.4E-05 U	3.5E-05 U	2.2E-05 U	0.0055 UJ+
3,3',4,5-Tetrachlorobiphenyl (PCB 78)	mg/Kg		0.00012 U	1E-05 U	1.6E-05 U	3.5E-05 U	1.3E-05 U	1.8E-05 U	5.9E-06 U	7.1E-06 U	7.5E-06 U	1.3E-05 U	4.6E-05 U	1.9E-05 U	0.00085 U
3,3',4,5'-Tetrachlorobiphenyl (PCB 79)	mg/Kg		0.0013	5.6E-05	1.4E-05 U	0.0001	1.1E-05 U	6.6E-05 J	1.1E-05 J	1.7E-05 J	6.5E-06 U	1.2E-05 U	8.4E-05 J	4.5E-05 J+	0.0085 J
3,3',4-Trichlorobiphenyl (PCB 35)	mg/Kg		0.0008	2.9E-05 J	6.2E-05 J	6.7E-05 J+	9.4E-06 U	4.3E-05 J	0.00022	0.00024	0.0001 J	0.00017 J	0.00011 J	0.00029	6.2E-05 U
3,3',5,5'-Tetrachlorobiphenyl (PCB 80)	mg/Kg		0.0001 U	8.4E-06 U	1.4E-05 U	2.9E-05 U	1.1E-05 U	1.5E-05 U	4.9E-06 U	5.9E-06 U	6.2E-06 U	1.1E-05 U	3.8E-05 U	1.5E-05 U	0.0007 U
3,3',5-Trichlorobiphenyl (PCB 36)	mg/Kg		3.4E-05 U	4.7E-06 U	1.5E-05 U	4.4E-05 U	8.2E-06 U	8.9E-06 U	1.2E-05 J	1.2E-05 J	8.1E-06 U	1E-05 U	1.7E-05 U	2.1E-05 J	5.5E-05 U
3,3'-Dichlorobiphenyl (PCB 11)	mg/Kg		0.0044 J+	0.00013	0.0015	0.00011	0.00021 U	0.00011 U	0.0011	0.0012	0.0019 J	0.0036 J	0.00063 J	0.0051 J	0.00039 U
3,4,4',5-Tetrachlorobiphenyl (PCB 81)	mg/Kg		0.00014 UJ+	1.1E-05 J+	2E-05 U	3.3E-05 UJ+	1.5E-05 U	1.9E-05 U	5.9E-06 UJ+	7.8E-06 UJ+	9.8E-06 U	1.8E-05 U	5.4E-05 U	1.9E-05 UJ+	0.0011 UJ+
3,4,4'-Trichlorobiphenyl (PCB 37)	mg/Kg		0.00086	0.00029	2E-05 UJ+	0.0035 J+	0.00012 J	0.00017 J	2.8E-05 J	3.5E-05 J	2E-05 J	2.4E-05 J	7.8E-05 J	6E-05	0.00041 J
3,4,5-Trichlorobiphenyl (PCB 38)	mg/Kg		3.7E-05 U	5.1E-06 U	1.6E-05 U	4.7E-05 U	8.8E-06 U	9.6E-06 U	2.3E-06 U	3E-06 J	8.6E-06 U	1.1E-05 U	1.8E-05 U	1.1E-05 J	5.9E-05 U
3,4',5-Trichlorobiphenyl (PCB 39)	mg/Kg		3.5E-05 U	4.8E-06 U	1.5E-05 U	4.4E-05 U	8.3E-06 U	9E-06 U	2.1E-06 U	2.7E-06 U	8.1E-06 U	1E-05 U	1.7E-05 U	6.5E-06 U	5.5E-05 U
3,5-Dichlorobiphenyl (PCB 14)	mg/Kg		0.00012 U	6.7E-06 U	0.00027 U	9.6E-06 U	0.00017 U	9.6E-05 U	7.3E-06 U	5.3E-06 U	0.00014 U	0.0002 U	0.0001 U	1.6E-05 U	0.00033 U
3-Chlorobiphenyl (PCB 2)	mg/Kg		0.00018 J	6E-05	7.2E-06 U	9.2E-05	1.8E-05 J	4.8E-06 J	1.2E-05 J	1.5E-05 J	3.6E-06 U	3.8E-06 U	6.1E-05 J	5.1E-05	1.3E-05 U
4,4'-Dichlorobiphenyl (PCB 15)	mg/Kg		0.00064 J+	0.00015	0.00034 U	0.0027	0.0002 U	0.00013 J	2.7E-05 J	3.7E-05 J	0.00018 U	0.00028 U	0.00014 J	0.0001	0.00057 U
4-Chlorobiphenyl (PCB 3)	mg/Kg		0.00014 J	6.1E-05	7.8E-06 U	9.9E-05	1.6E-05 J	1.2E-05 J	1.7E-05 J	2.2E-05 J	3.9E-06 U	8.6E-06 J	7.6E-05 J	6.2E-05	1.5E-05 U
Decachlorobiphenyl (PCB 209)	mg/Kg		0.25 J	0.033 J	0.027	0.32 J	0.0084	0.028	0.069 J	0.089 J	0.03	0.042	0.46 J	0.24 J	0.044
PCB 107/124	mg/Kg		0.0021	0.0001	3.4E-05 J	0.0002	4E-05 J	0.00012 J	1.5E-05 J	1.9E-05 J	9.2E-06 J	1.7E-05 J	8.2E-05 J	5.8E-05 J	0.012 J+
PCB 108/124	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--	--
PCB 110/115	mg/Kg		0.11	0.003	0.00086	0.0069	0.0013 J+	0.0054	0.00035	0.00041	0.00028 J	0.00037 J	0.0012 J	0.0015	0.79 J
PCB 12/13	mg/Kg		0.00048 J	0.0001	0.00033 U	0.00023	0.00021 U	0.00012 U	1.7E-05 J	1.9E-05 J	0.00017 U	0.00024 U	0.00013 U	5.8E-05 J	0.0004 U
PCB 128/166	mg/Kg		0.019 J+	0.00083	0.00026 J	0.0017	0.00028 J	0.00098	8.4E-05	0.0001	4.2E-05 J	7.2E-05 J	0.00029 J	0.00026	0.06
PCB 129/138/163	mg/Kg		0.14	0.0054	0.0013	0.012	0.0018 J+	0.007	0.00046	0.00056	0.0003 J	0.00044 J	0.0015 J	0.0015	0.3
PCB 134/143	mg/Kg		0.0044 J+	0.00013	3.2E-05 J	0.00035	3.8E-05 J	0.00021 J	1.5E-05 J	2E-05 J	9.6E-06 U	1.8E-05 J	8.4E-05 J	6.1E-05 J	0.022
PCB 135/151	mg/Kg		0.03 J+	0.00092	0.00016 J	0.0023	0.00025 J	0.0013	8.1E-05	9.8E-05	5.8E-05 J	8.5E-05 J	0.00041 J	0.00028	0.073
PCB 139/140	mg/Kg		0.0012 UJ+	4.9E-05 J	2.2E-05 U	0.00011	1.7E-05 U	4.6E-05 J	5.4E-06 J	6.4E-06 J	8.1E-06 U	1.1E-05 U	1.8E-05 J	2.1E-05 J	0.0053
PCB 147/149	mg/Kg		0.083 J+	0.0024	0.00051 J	0.0061	0.00076 J	0.0037	0.00021	0.00026	0.00016 J	0.00024 J	0.00088 J	0.00078	0.2
PCB 153/168	mg/Kg		0.1 J+	0.0039	0.0009	0.0083	0.0012 J+	0.0049	0.00036	0.00042	0.00023 J	0.00035 J	0.0013 J	0.0012	0.15
PCB 156/157	mg/Kg		0.016 J+	0.00074 J+	0.0002	0.0014 J+	0.00024	0.00091	7.8E-05	9.4E-05	4.1E-05 J	7.2E-05 J	0.0003	0.00026 J+	0.037 J+
PCB 171/173	mg/Kg		0.01	0.00058	7.9E-05 J	0.0012	0.00015 J	0.00063 J	5.3E-05 J	7.1E-05 J	3E-05 J	3.7E-05 J	0.00031 J	0.00015	0.011
PCB 18/30	mg/Kg		0.00038 J	0.0001	2.6E-05 U	0.0012	5.7E-05 J	6.9E-05 J	7.3E-06 J	1.2E-05 J	2.1E-05 U	3.2E-05 U	7.3E-05 J	3E-05 J	7.6E-05 J
PCB 180/193	mg/Kg		0.068	0.0053	0.00087	0.0098 J	0.0014 J+	0.0049	0.00042	0.00051	0.00019 J	0.00025 J	0.0012 J	0.00099	0.056
PCB 198/199	mg/Kg		0.011	0.001	0.0003 J	0.0021	0.00034 J	0.00085	0.00032	0.00038	0.00012 J	0.00019 J	0.0012 J	0.00064	0.0072
PCB 20/28	mg/Kg		0.0014	0.00025	5.3E-05 J	0.004	0.00014 J	0.00025 J	2.9E-05 J	3.8E-05 J	2.5E-05 J	3.9E-05 J	0.00015 J	9.7E-05	0.00022 J
PCB 21/33	mg/Kg		0.00072 J	9.4E-05	1.4E-05 U	0.0018	4.3E-05 J	9.2E-05 J	1.7E-05 J	2.3E-05 J	7.8E-06 U	1.4E-05 J	0.00011 J	6.7E-05 J	5.3E-05 U
PCB 26/29	mg/Kg		0.00019 J	3.6E-05 J	1.5E-05 U	0.00032	1.8E-05 J	3.5E-05 J	1.1E-05 J	1.7E-05 J	7.9E-06 U	9.9E-06 U	0.00011 J	5.5E-05 J	5.4E-05 U
PCB 40/41/71	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--	--
PCB 40/71	mg/Kg		0.0008 J	0.00017	3.6E-05 J	0.0023	5.2E-05 J	0.00016 J	2E-05 J	2.6E-05 J	5.3E-06 U	1.7E-05 J	0.00011 J	6.9E-05 J	0.0016 J
PCB 43/73	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--	--
PCB 44/47/65	mg/Kg		0.0033	0.00039	7.8E-05 J	0.0044	0.00015 J	0.00054 J	5.4E-05 J	7.1E-05 J	4.6E-05 J	4.8E-05 J	0.0003 J	0.0003	0.01

Table 3-7. Soil Summary - PCBs
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	Site Area: Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 DrainageDitches	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 5 FrancyMtn	Area 8 Drainage Ditches
			PSA (If Applicable): DD-B-4	DD-B-5	DD-B-6	DD-B-7	DD-B-8	DD-B-9	FM-SS-1	FM-SS-1	FM-SS-2	FM-SS-2	FM-SS-3	FM-SS-4	Alpha Line
			Location: DD-B-4_SS	DD-B-5_SS	DD-B-6_SS	DD-B-7_SS	DD-B-8_SS	DD-B-9_SS	FM-SS-1_SS	FM-SS-1_SS DUP	FM-SS-2_SS	FM-SS-2_SS DUP	FM-SS-3_SS	FM-SS-4_SS	AL-1
			Sample Name: 0	0	0	0	0	0	0	0	0	0	0	0	5
			Start Depth: 0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5.5
			End Depth: ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Depth Units: 12/2/2013	11/13/2013	12/3/2013	12/6/2013	12/4/2013	12/3/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	7/30/2014
			Sample Date:							FM-SS-1_SS_11/20/13		FM-SS-2_SS_11/20/13			
			Parent Sample:												
PCB 45/51	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--	--
PCB 49/69	mg/Kg		0.0027	0.00018	5.2E-05 J	0.0028	7.3E-05 J	0.00027 J	2.6E-05 J	3.5E-05 J	1.8E-05 J	3E-05 J	0.00014 J	0.00015	0.014
PCB 50/53	mg/Kg		0.00022 J	3.7E-05 J	1.1E-05 U	0.00069	1.3E-05 J	3.6E-05 J	4E-06 J	5.7E-06 J	5E-06 U	8.5E-06 U	2.9E-05 J	1.8E-05 J	0.00019 J
PCB 59/62/75	mg/Kg		0.00016 J	3.3E-05 J	9E-06 U	0.00049	5.5E-06 U	1.7E-05 J	5.3E-06 J	7.6E-06 J	3.9E-06 U	6.6E-06 U	3.6E-05 J	2.2E-05 J	0.00082 J
PCB 61/70/74/76	mg/Kg		0.01	0.001	0.00026 J	0.0084	0.00046 J	0.00099 J	0.00018	0.00021	0.00011 J	0.00015 J	0.00086 J	0.00044	0.15
PCB 83/99	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--	--
PCB 85/116	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--	--
PCB 85/116/117	mg/Kg		0.013	0.00042	8.7E-05 J	0.0012	0.00016 J	0.00056 J	5E-05 J	6.1E-05 J	3.5E-05 J	3.8E-05 J	0.00025 J	0.00024	0.085 J+
PCB 86/87/97/109/119/125	mg/Kg		0.043	0.0011	0.0004 J	0.0035	0.00055 J	0.0025	0.00017 J	0.00021 J	0.00014 J	0.0002 J	0.00082 J	0.00084	0.36
PCB 88/91	mg/Kg		0.0076 J+	0.00016	3.4E-05 J	0.00071	6.5E-05 J	0.00036 J	1.8E-05 J	2.2E-05 J	2E-05 J	2E-05 J	7.7E-05 J	5.3E-05 J	0.066 J+
PCB 90/101/113	mg/Kg		0.086	0.0018	0.00051 J	0.0051	0.00069 J	0.004	0.00024	0.0003	0.00021 J	0.00029 J	0.0011 J	0.0012	0.54 J
PCB 93/100	mg/Kg		0.0011 UJ+	3.7E-05 U	2.2E-05 U	7.8E-05 U	2.1E-05 U	6.8E-05 U	6.4E-06 U	8.7E-06 U	7.9E-06 U	1.6E-05 U	3.9E-05 U	2.4E-05 U	0.0061 UJ+
PCB 98/102	mg/Kg		0.001 UJ+	3.5E-05 U	2E-05 U	0.00011	2E-05 U	6.4E-05 U	6E-06 U	8.1E-06 U	7.4E-06 U	1.5E-05 U	3.7E-05 U	2.2E-05 U	0.0066 J+
Total Dichlorobiphenyl	mg/Kg		0.0073 J+	0.00078 J+	0.0015 J	0.0038 J+	0.00021 U	0.00013 J	0.0011	0.0013 J+	0.0019 J	0.0036 J	0.00077 J	0.0053 J+	0.00057 U
Total Heptachlorobiphenyl	mg/Kg		0.24	0.017	0.0026 J	0.032	0.0046 J+	0.016 J+	0.0013 J+	0.0016 J+	0.0006 J	0.00091 J	0.0047 J	0.0033 J+	0.22 J
Total Hexachlorobiphenyl	mg/Kg		0.52	0.019	0.0044 J+	0.042 J+	0.0061 J+	0.026 J+	0.0018 J+	0.0022 J+	0.0011 J	0.0017 J	0.007 J	0.0061	1.2
Total Monochlorobiphenyl	mg/Kg		0.00063 J	0.0002 J	7.8E-06 U	0.00032 J	7E-05 J	3E-05 J	3.9E-05 J	5.2E-05 J	3.9E-06 U	8.6E-06 J	0.0002 J	0.00016 J	1.5E-05 U
Total Nonachlorobiphenyl	mg/Kg		0.01	0.0028	0.001 J	0.0058	0.0011 J	0.0012 J	0.00099	0.0012	0.00062 J	0.001 J	0.0042 J	0.0022	0.0047 J
Total Octachlorobiphenyl	mg/Kg		0.045	0.0046	0.0011 J	0.0084	0.0014 J	0.0036 J	0.00084	0.001 J+	0.00034 J	0.00052 J	0.0032 J	0.0019	0.028 J
Total Pentachlorobiphenyl	mg/Kg		0.5	0.014 J+	0.0041 J	0.037 J+	0.0056 J+	0.025 J+	0.0018 J+	0.0021 J+	0.0014 J	0.0019 J	0.0074 J	0.0078 J+	3.4
Total Tetrachlorobiphenyl	mg/Kg		0.055	0.0042	0.00087 J	0.044 J+	0.0019 J	0.0048 J+	0.00064 J+	0.00081 J+	0.00037 J	0.00054 J	0.0031 J	0.0024 J+	0.37 J
Total Trichlorobiphenyl	mg/Kg		0.0067 J+	0.0013 J+	0.00018 J	0.019 J+	0.00058 J	0.001 J	0.00038 J	0.00046 J+	0.00016 J	0.0003 J	0.0009 J	0.00084 J+	0.0009 J
Total PCBs (Lab calculated)	mg/Kg	0.83	**1.6 J+**	0.096 J+	0.043 J+	0.52 J+	0.03 J+	0.1 J+	0.078 J+	0.1 J+	0.036 J+	0.052 J+	0.49 J+	0.27 J+	**5.3 J**
Total TEQ - Sum of Dioxin/Furan and PCB Congener	mg/Kg	0.001	0.00019	8.8E-06 J	5.4E-08 J	1.5E-05 J	3.4E-05 J	2E-05 J	1.2E-06 J	1.4E-06 J	1.7E-05 J	6.4E-05 J	0.00018	3.5E-06 J	5E-05 J
Total TEQ - Sum of Dioxin/Furan and PCB Congener	pg/g	1000	190	8.8 J	0.054 J	15 J	34 J	20 J	1.2 J	1.4 J	17 J	64 J	180	3.5 J	50 J
Total TEQ-Dioxin/Furan only	mg/Kg	0.001	0.00019	--	--	--	3.4E-05 J	2E-05 J	--	--	1.7E-05 J	6.4E-05 J	0.00018	--	3.1E-05 J
Total TEQ-Dioxin/Furan only	pg/g	1000	190	--	--	--	34 J	20 J	--	--	17 J	64 J	180	--	31 J
Total TEQ-PCB Congener Only	mg/Kg		4.1E-06 J	8.8E-06 J	5.4E-08 J	1.5E-05 J	7.3E-08 J	2.1E-07 J	1.2E-06 J	1.4E-06 J	1.3E-08 J	2.3E-08 J	7.9E-08	3.5E-06 J	1.9E-05 J
Total TEQ-PCB Congener Only	pg/g		4.1 J	8.8 J	0.054 J	15 J	0.073 J	0.21 J	1.2 J	1.4 J	0.013 J	0.023 J	0.079	3.5 J	19 J

Notes:
-- = Sample not analyzed for this compound
* LCS or LCSD exceeds the control limits
+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
blue shading = analyte concentration exceeds
comparison level for Industrial Outdoor Worker BCL

Table 3-7. Soil Summary - PCBs
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

		Site Area	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8
		PSA (If Applicable)	Drainage Ditches	DrainageDitches	None	None	PSA-35	None	None	None	None
		Location	Alpha Line	DD-B-10	NE-B-1	NE-B-2	NE-B-3	NE-B-6	NE-B-6	NE-B-7	NE-B-7
		Sample Name	AL-2	DD-B-10_SS	NE-B-1_SS	NE-B-2_SS	NE-B-3_SS	NE-B-6 0-0.5	NE-B-6 5.0-6.5	NE-B-7 0-0.5	NE-B-7 5.0-6.5
		Start Depth	2	0	0	0	0	0	5	0	5
		End Depth	2.5	0.5	0.5	0.5	0.5	0.5	6.5	0.5	6.5
		Depth Units	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	7/30/2014	12/4/2013	11/22/2013	11/22/2013	11/22/2013	3/20/2014	3/20/2014	3/20/2014	3/20/2014
		Parent Sample									
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL									
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB 206)	mg/Kg		0.0029	0.0012	7.6E-06 J	4.9E-05	5.9E-05	0.0046 J	3.9E-07 U	0.001	2.4E-06 J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (PCB 194)	mg/Kg		0.0074	0.0018	7.5E-06 J	6.3E-05	7.3E-05	0.0016	4.1E-07 U	0.00081	1.9E-06 J
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (PCB 207)	mg/Kg		0.0015	0.00075	4E-06 J	6E-05	0.00011	0.00051	2.9E-07 U	0.00084	3.2E-06 J
2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB 195)	mg/Kg		0.0027	0.00048	1.4E-06 J	1.8E-05 J	2E-05 J	0.00017	3.8E-07 U	0.00033	4.6E-07 U
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (PCB 196)	mg/Kg		0.0033	0.00082	3E-06 J	2.7E-05 J	3.3E-05 J	0.0005	3.4E-07 U	0.00055	1.1E-06 J
2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	mg/Kg		0.023	0.0019	9.9E-06 J	0.00014	0.00012	0.00068	2.8E-07 U	0.002	4.2E-06 J
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (PCB 197)	mg/Kg		0.00025 J	0.00011	5.9E-07 J	7.9E-06 J	1.9E-05 J	6.6E-05	2.3E-07 U	0.00013	2.4E-07 U
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (PCB 208)	mg/Kg		0.0019	0.00061	2.9E-06 J	3.7E-05 J	5.7E-05	0.00031	3.6E-07 U	0.00051	1.9E-06 J
2,2',3,3',4,5,5'-Heptachlorobiphenyl (PCB 172)	mg/Kg		0.0034	0.00033	1.8E-06 J	2.4E-05 J	2.2E-05 J	7E-05	2.6E-07 U	0.00032	8E-07 J
2,2',3,3',4,5,6,6'-Octachlorobiphenyl (PCB 200)	mg/Kg		0.00074 J	0.00014	6.2E-07 J	4.3E-06 J	6.7E-06 J	4.1E-05	2.3E-07 U	0.00012	2.4E-07 U
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (PCB 201)	mg/Kg		0.00068 J	0.0002	1.1E-06 J	9.5E-06 J	1.9E-05 J	4.6E-05	2.3E-07 U	0.0002	3.9E-07 J
2,2',3,3',4,5,6'-Heptachlorobiphenyl (PCB 174)	mg/Kg		0.02	0.0014	1.2E-05 J	0.00012	0.00011	0.00021	2.6E-07 U	0.002	3.2E-06 J
2,2',3,3',4,5',6-Heptachlorobiphenyl (PCB 175)	mg/Kg		0.00059 J	5.8E-05	8.5E-07 U	3.8E-06 J	4.8E-06 J	1.8E-05 J	3.6E-07 U	8.2E-05	5.5E-07 U
2,2',3,3',4,5',6'-Heptachlorobiphenyl (PCB 177)	mg/Kg		0.011	0.0008	4.8E-06 J	6.5E-05	6.6E-05	0.00011	2.6E-07 U	0.0011	1.4E-06 J
2,2',3,3',4,5'-Hexachlorobiphenyl (PCB 130)	mg/Kg		0.0039	0.00016	2.4E-06 J	1.9E-05 J	1.8E-05 J	4.6E-05	3.6E-07 U	0.00037	6.6E-07 U
2,2',3,3',4,6,6'-Heptachlorobiphenyl (PCB 176)	mg/Kg		0.0015	8.3E-05	1.5E-06 J	4.3E-06 J	9E-06 J	2.1E-05	2.4E-07 U	0.00018	3.7E-07 U
2,2',3,3',4,6-Hexachlorobiphenyl (PCB 131)	mg/Kg		0.0006 J	1.3E-05 J	1.4E-06 U	3.6E-06 J	2.8E-06 J	1.7E-05 U	3.4E-07 U	6.7E-05	6.2E-07 U
2,2',3,3',4,6'-Hexachlorobiphenyl (PCB 132)	mg/Kg		0.019	0.00047	1.7E-05 J	8.7E-05	7.6E-05	0.00019	3.2E-07 U	0.0018	4E-06 J
2,2',3,3',4-Pentachlorobiphenyl (PCB 82)	mg/Kg		0.006 J+	0.00017 J+	9.1E-06 J	2.1E-05 J	2.9E-05 J	6.4E-05 J+	4.5E-07 U	0.00057 J+	8E-07 U
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (PCB 202)	mg/Kg		0.001 J	0.00023	1.7E-06 J	9.9E-06 J	1.7E-05 J	3E-05	2.8E-07 U	0.00015	2.8E-07 U
2,2',3,3',5,5',6-Heptachlorobiphenyl (PCB 178)	mg/Kg		0.0027	0.00021	1.4E-06 J	1.6E-05 J	1.7E-05 J	3.4E-05	3.8E-07 U	0.0003	5.7E-07 U
2,2',3,3',5,5'-Hexachlorobiphenyl (PCB 133)	mg/Kg		0.00056 J	2.2E-05 J	1.3E-06 U	3.1E-06 J	2.6E-06 J	1.6E-05 U	3.2E-07 U	5.6E-05	5.8E-07 U
2,2',3,3',5,6,6'-Heptachlorobiphenyl (PCB 179)	mg/Kg		0.0051	0.00031	4.7E-06 J	2.5E-05 J	2.9E-05 J	4.4E-05	2.7E-07 U	0.0006	9.1E-07 J
2,2',3,3',5-Pentachlorobiphenyl (PCB 83)	mg/Kg		0.0018 J+	3.4E-05 J	3.3E-06 J	7.7E-06 J	5.9E-06 J	2.6E-05 UJ+	4.8E-07 U	0.00014 J+	8.7E-07 U
2,2',3,3',6,6'-Hexachlorobiphenyl (PCB 136)	mg/Kg		0.0061	8.7E-05	6.4E-06 J	2.1E-05 J	1.9E-05 J	3.6E-05	2.1E-07 U	0.00055	1E-06 J
2,2',3,3',6-Pentachlorobiphenyl (PCB 84)	mg/Kg		0.01	0.00018 J+	2.3E-05 J	4.3E-05	4.4E-05	8.5E-05 J+	4E-07 U	0.0011 J+	2.8E-06 J
2,2',3,4,4',5,5',6-Octachlorobiphenyl (PCB 203)	mg/Kg		0.0042	0.00098	4.1E-06 J	3.4E-05 J	4.5E-05	0.0011	3.1E-07 U	0.00067	1.5E-06 J
2,2',3,4,4',5,5',6,6'-Octachlorobiphenyl (PCB 204)	mg/Kg		3.2E-05 J	3.5E-05 J	3.3E-07 U	1.5E-06 J	4.2E-06 J	4.1E-05	2.4E-07 U	3.3E-05	2.5E-07 U
2,2',3,4,4',5,6-Heptachlorobiphenyl (PCB 181)	mg/Kg		0.00015 J	1.1E-05 J	5.4E-07 U	7.5E-07 U	7.6E-07 U	2.4E-05	2.1E-07 U	4.7E-06 U	2.9E-07 U
2,2',3,4,4',5,6'-Heptachlorobiphenyl (PCB 182)	mg/Kg		0.00011 J	1.6E-05 J	7.9E-07 U	9.4E-07 J	1.3E-06 J	2.4E-05	3.4E-07 U	1.6E-05 J	5.1E-07 U
2,2',3,4,4',5',6-Heptachlorobiphenyl (PCB 183)	mg/Kg		0.0091	0.00063	5.4E-06 J	5.7E-05	5.4E-05	0.00042	1.9E-07 U	0.001	1.5E-06 J
2,2',3,4,4',5-Hexachlorobiphenyl (PCB 137)	mg/Kg		0.0025	8.4E-05	3.2E-06 J	1.4E-05 J	1.2E-05 J	0.00011	2.8E-07 U	0.0003	5.2E-07 U
2,2',3,4,4',6,6'-Heptachlorobiphenyl (PCB 184)	mg/Kg		1.8E-05 U	1.5E-05 J	6.4E-07 U	1.4E-06 J	5E-06 J	2.3E-05	2.7E-07 U	2.5E-05	4.1E-07 U
2,2',3,4,5,5',6-Heptachlorobiphenyl (PCB 185)	mg/Kg		0.0016	0.00014	5.9E-07 U	5.3E-06 J	1.1E-05 J	2.6E-05	2.3E-07 U	0.00017	3.1E-07 U
2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187)	mg/Kg		0.017	0.0014	1.2E-05 J	9.6E-05	0.0001	0.00024	3.5E-07 U	0.0019	3.7E-06 J
2,2',3,4,5,5'-Hexachlorobiphenyl (PCB 141)	mg/Kg		0.013	0.00042	9.2E-06 J	5.6E-05	4.7E-05	0.00013	3E-07 U	0.0011	5.5E-07 U
2,2',3,4',5,5'-Hexachlorobiphenyl (PCB 146)	mg/Kg		0.0073	0.00029	7.3E-06 J	3.8E-05 J	3.5E-05 J	9.7E-05	3E-07 U	0.00072	1.5E-06 J
2,2',3,4,5,6,6'-Heptachlorobiphenyl (PCB 186)	mg/Kg		1.7E-05 U	1.9E-06 U	6.1E-07 U	5.7E-07 U	5.1E-07 U	2.5E-06 J	2.6E-07 U	1.5E-06 U	3.9E-07 U
2,2',3,4',5,6,6'-Heptachlorobiphenyl (PCB 188)	mg/Kg		1.7E-05 U	1.2E-05 J	8.7E-07 U	8.5E-07 J	3.5E-06 J	7.6E-06 J	2.7E-07 U	1.4E-05 J	3.9E-07 U
2,2',3,4,5,6-Hexachlorobiphenyl (PCB 142)	mg/Kg		0.00032 U	8.3E-06 U	1.3E-06 U	1.8E-06 U	2E-06 U	1.6E-05 U	3.1E-07 U	1.6E-05 U	5.7E-07 U
2,2',3,4,5',6-Hexachlorobiphenyl (PCB 144)	mg/Kg		0.0022	5.4E-05	2.5E-06 J	1.1E-05 J	9.3E-06 J	2.4E-05	2.8E-07 U	0.00022	5.2E-07 U
2,2',3,4',5,6'-Hexachlorobiphenyl (PCB 148)	mg/Kg		0.00028 U	7.4E-06 U	1.1E-06 U	1.6E-06 U	1.8E-06 U	1.4E-05 U	2.8E-07 U	1.4E-05 U	5.1E-07 U
2,2',3,4,6,6'-Hexachlorobiphenyl (PCB 145)	mg/Kg		0.00021 U	5.3E-06 U	8.2E-07 U	1.1E-06 U	1.3E-06 U	1E-05 U	2E-07 U	1E-05 U	3.7E-07 U
2,2',3,4',6,6'-Hexachlorobiphenyl (PCB 150)	mg/Kg		0.00019 U	5E-06 U	7.6E-07 U	1E-06 U	1.2E-06 U	9.4E-06 U	1.9E-07 U	9.7E-06 U	3.4E-07 U
2,2',3,4,6'-Pentachlorobiphenyl (PCB 89)	mg/Kg		0.001 U	2.3E-05 U	1.9E-06 U	4.4E-06 U	4E-06 U	2.1E-05 U	3.8E-07 U	6.5E-05 UJ+	6.8E-07 U
2,2',3,4-Tetrachlorobiphenyl (PCB 41)	mg/Kg		8.4E-05 U	1.6E-05 J	1.7E-06 J	1.3E-06 J	1.8E-05 J	7E-06 J	3E-07 U	8.3E-05	3.6E-07 U
2,2',3,4'-Tetrachlorobiphenyl (PCB 42)	mg/Kg		0.00072 J	4.5E-05 J+	4.3E-06 J	8.1E-06 J	3.4E-05 J	1.9E-05 J	2.5E-07 U	0.00025	4.1E-07 J
2,2',3,5,5'-Pentachlorobiphenyl (PCB 92)	mg/Kg		0.0096	0.00014 J+	1.7E-05 J	3.2E-05 J	2.8E-05 J	5.8E-05	3.6E-07 U	0.00068 J+	1.5E-06 J
2,2',3,5,6,6'-Hexachlorobiphenyl (PCB 152)	mg/Kg		0.0002 U	5.1E-06 U	7.8E-07 U	1.1E-06 U	1.2E-06 U	9.7E-06 U	1.9E-07 U	1E-05 U	3.5E-07 U
2,2',3,5,6'-Pentachlorobiphenyl (PCB 94)	mg/Kg		0.00095 U	2.2E-05 U	1.8E-06 U	4.1E-06 U	3.7E-06 U	1.9E-05 U	3.6E-07 U	6.2E-05 UJ+	6.5E-07 U
2,2',3,5',6-Pentachlorobiphenyl (PCB 95)	mg/Kg		0.045	0.00047 J+	6.8E-05	0.00013	0.00011	0.00021	6.7E-07 J	0.0033 J	7.8E-06 J
2,2',3,5-Tetrachlorobiphenyl (PCB 43)	mg/Kg		7.4E-05 U	3.8E-06 J	9.4E-07 U	7.9E-07 U	4.8E-06 J	5.5E-07 U	2.6E-07 U	2.8E-05	3.2E-07 U
2,2',3,6,6'-Pentachlorobiphenyl (PCB 96)	mg/Kg		0.00013 J	2.7E-06 J	4.3E-07 U	6E-07 J	7.2E-07 J	1.8E-06 J	2.5E-07 U	2.1E-05	2.4E-07 U
2,2',3,6-Tetrachlorobiphenyl (PCB 45)	mg/Kg		0.00013 J	1.6E-05 J	9.2E-07 U	5.7E-06 J	1.5E-05 J	4.5E-06 J	2.6E-07 U	0.00011	3.1E-07 U

Table 3-7. Soil Summary - PCBs
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

		Site Area	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8
		PSA (If Applicable)	Drainage Ditches	DrainageDitches	None	None	PSA-35	None	None	None	None
		Location	Alpha Line	DD-B-10	NE-B-1	NE-B-2	NE-B-3	NE-B-6	NE-B-6	NE-B-7	NE-B-7
		Sample Name	AL-2	DD-B-10_SS	NE-B-1_SS	NE-B-2_SS	NE-B-3_SS	NE-B-6 0-0.5	NE-B-6 5.0-6.5	NE-B-7 0-0.5	NE-B-7 5.0-6.5
		Start Depth	2	0	0	0	0	0	5	0	5
		End Depth	2.5	0.5	0.5	0.5	0.5	0.5	6.5	0.5	6.5
		Depth Units	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	7/30/2014	12/4/2013	11/22/2013	11/22/2013	11/22/2013	3/20/2014	3/20/2014	3/20/2014	3/20/2014
		Parent Sample									
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL									
2,2',3,6'-Tetrachlorobiphenyl (PCB 46)	mg/Kg		7.7E-05 U	6.5E-06 J	9.8E-07 U	2.3E-06 J	6.2E-06 J	5.8E-07 U	2.7E-07 U	4.5E-05	3.3E-07 U
2,2',3-Trichlorobiphenyl (PCB 16)	mg/Kg		7.8E-05 U	2.1E-05 J	2.1E-06 U	2.5E-06 J	3.1E-05 J	1.3E-05 J	6.5E-07 U	0.00016	1.1E-06 J
2,2',4,4',5,6'-Hexachlorobiphenyl (PCB 154)	mg/Kg		0.00031 J	1.4E-05 J	1E-06 U	1.4E-06 U	2.8E-06 J	1.9E-05 J	2.5E-07 U	3.3E-05	4.5E-07 U
2,2',4,4',5-Pentachlorobiphenyl (PCB 99)	mg/Kg		0.023	0.00047 J+	4.7E-05	6.9E-05	8.3E-05	0.00065	3.6E-07 U	0.0022 J	5.7E-06 J
2,2',4,4',6,6'-Hexachlorobiphenyl (PCB 155)	mg/Kg		0.00021 U	7E-06 U	1.4E-06 U	1.6E-06 U	1.9E-06 U	1.1E-05 U	2.4E-07 U	1E-05 U	4.1E-07 U
2,2',4,5',6-Pentachlorobiphenyl (PCB 103)	mg/Kg		0.00083 U	1.9E-05 U	1.6E-06 U	3.6E-06 U	3.3E-06 U	1.7E-05 U	3.2E-07 U	5.4E-05 UJ+	5.6E-07 U
2,2',4,5-Tetrachlorobiphenyl (PCB 48)	mg/Kg		6.6E-05 U	3.2E-05 J	3E-06 J	3.3E-06 J	2.4E-05 J	1.3E-05 J	2.3E-07 U	0.00016	8.2E-07 J
2,2',4,6,6'-Pentachlorobiphenyl (PCB 104)	mg/Kg		1.2E-05 U	1.2E-06 U	5.5E-07 U	5.3E-07 U	2.9E-07 U	1.8E-06 J	2.3E-07 U	1E-06 J	2.3E-07 U
2,2',4,6'-Tetrachlorobiphenyl (PCB 51)	mg/Kg		6.1E-05 U	4.5E-06 J	7.7E-07 U	1.4E-06 J	4.3E-06 J	3.1E-06 J	2.1E-07 U	2.7E-05	2.6E-07 U
2,2',4-Trichlorobiphenyl (PCB 17)	mg/Kg		5.5E-05 U	1.7E-05 J	1.5E-06 U	1.5E-06 U	1.9E-05 J	1.2E-05 J	4.6E-07 U	0.00011	9.2E-07 J
2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	mg/Kg		0.034	0.00044 J+	5.4E-05	6.8E-05	0.0001	0.00013	1.2E-06 J	0.0026 J	7.8E-06 J
2,2',6,6'-Tetrachlorobiphenyl (PCB 54)	mg/Kg		1.4E-05 U	1.5E-06 U	1E-06 U	1.1E-06 U	5.5E-07 U	2.6E-07 U	3E-07 U	2.3E-06 J	2.2E-07 U
2,2',6-Trichlorobiphenyl (PCB 19)	mg/Kg		4.7E-05 U	2.8E-06 J	2E-06 U	2.1E-06 U	5.4E-06 J	2.3E-06 J	5.1E-07 U	4.1E-05	5.5E-07 U
2,2'-Dichlorobiphenyl (PCB 4)	mg/Kg		0.00017 U	4.8E-05 UJ+	2.8E-05 U	3.1E-05 U	1.7E-05 U	2.5E-05	4.5E-06 U	5.4E-05	5.8E-06 U
2,3,3',4,4',5,5',6-Octachlorobiphenyl (PCB 205)	mg/Kg		0.00048 J	0.00013	4.4E-07 J	3E-06 J	5.2E-06 J	0.00011	2.8E-07 U	7.4E-05	3.6E-07 U
2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	mg/Kg		0.00084	9E-05	5.8E-07 U	4.8E-06	4.5E-06	9.9E-05	5E-07 U	8.2E-05	5.8E-07 U
2,3,3',4,4',5,6-Heptachlorobiphenyl (PCB 190)	mg/Kg		0.0045	0.00043	1.3E-06 J	2.8E-05 J	2.6E-05 J	0.00022	1.9E-07 U	0.0004	4.6E-07 J
2,3,3',4,4',5',6-Heptachlorobiphenyl (PCB 191)	mg/Kg		0.0011	9.9E-05	4.8E-07 U	4.9E-06 J	5.4E-06 J	7.8E-05	1.9E-07 U	9.5E-05	2.5E-07 U
2,3,3',4,4',6-Hexachlorobiphenyl (PCB 158)	mg/Kg		0.0071	0.00031	4.5E-06 J	3.7E-05 J	3.1E-05 J	0.00023	2.1E-07 U	0.00068	1.8E-06 J
2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	mg/Kg		0.018 J+	0.0014 J+	2.2E-05	8.4E-05	0.00011	0.00069 J+	3.2E-07 U	0.0022 J	7.5E-06
2,3,3',4,5,5',6-Heptachlorobiphenyl (PCB 192)	mg/Kg		4.5E-05 U	5E-06 U	5E-07 U	6.9E-07 U	7E-07 U	1.6E-06 U	2E-07 U	4.3E-06 U	2.6E-07 U
2,3,3',4,4',5-Pentachlorobiphenyl (PCB 106)	mg/Kg		0.0008 U	1.8E-05 U	1.5E-06 U	3.5E-06 U	3.2E-06 U	1.7E-05 U	3.1E-07 U	5.3E-05 UJ+	5.5E-07 U
2,3,3',4,4',5'-Pentachlorobiphenyl (PCB 122)	mg/Kg		0.00083 J	3E-05 J	1.6E-06 U	3.6E-06 U	3.2E-06 U	1.7E-05 U	3.1E-07 U	5.4E-05 UJ+	5.6E-07 U
2,3,3',4,6-Pentachlorobiphenyl (PCB 109)	mg/Kg		0.0026	0.00014	4.3E-06 J	1.1E-05 J	1.5E-05 J	4.1E-05	2.6E-07 U	0.00024 J+	4.7E-07 U
2,3,3',4-Tetrachlorobiphenyl (PCB 55)	mg/Kg		9.7E-05 U	8.1E-06 U	1.4E-06 U	1.2E-06 U	1.3E-06 U	3.5E-06 U	2.9E-07 U	8.3E-06 UJ	4.1E-07 U
2,3,3',4'-Tetrachlorobiphenyl (PCB 56)	mg/Kg		0.0016	0.00025 J+	1.1E-05 J	1.2E-05 J	7.8E-05	5.7E-05	3.2E-07 U	0.00044	1.6E-06 J
2,3,3',5,5',6-Hexachlorobiphenyl (PCB 165)	mg/Kg		0.00025 U	6.6E-06 U	1E-06 U	1.4E-06 U	1.6E-06 U	1.2E-05 U	2.5E-07 U	1.3E-05 U	4.5E-07 U
2,3,3',5,5'-Pentachlorobiphenyl (PCB 111)	mg/Kg		0.00065 U	1.5E-05 U	1.2E-06 U	2.9E-06 U	2.6E-06 U	1.3E-05 U	2.5E-07 U	4.3E-05 UJ+	4.5E-07 U
2,3,3',5,6-Pentachlorobiphenyl (PCB 112)	mg/Kg		0.00063 U	1.4E-05 U	1.2E-06 U	2.7E-06 U	2.5E-06 U	1.3E-05 U	2.4E-07 U	4.1E-05 UJ+	4.3E-07 U
2,3,3',5-Tetrachlorobiphenyl (PCB 57)	mg/Kg		9.5E-05 U	8E-06 U	1.4E-06 U	1.2E-06 U	1.3E-06 U	3.5E-06 U	2.9E-07 U	8.2E-06 U	4E-07 U
2,3,3',5'-Tetrachlorobiphenyl (PCB 58)	mg/Kg		9.6E-05 U	8E-06 U	1.4E-06 U	1.2E-06 U	1.3E-06 U	3.5E-06 U	2.9E-07 U	8.2E-06 U	4.1E-07 U
2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	mg/Kg		0.0028	0.00024 J+	2E-06 J	1.7E-05	1.6E-05	0.00024 J+	3.2E-07 U	0.00029 J+	8.6E-07 J
2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	mg/Kg		0.00082 UJ+	5E-05 J+	1.5E-06 U	3.4E-06 J	5.7E-06	5.9E-05 J+	3.2E-07 U	9E-05 J+	5.4E-07 U
2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	mg/Kg		0.044 J+	0.0024 J+	5.6E-05	0.00017	0.00021	0.002 J+	1.1E-06 J	0.0044 J	1.4E-05
2,3',4,4',5'-Pentachlorobiphenyl (PCB 123)	mg/Kg		0.0008 UJ+	3.5E-05 J+	1.4E-06 U	3.1E-06 U	4.2E-06 J	5.4E-05 J+	3.1E-07 U	5.2E-05 UJ+	5.5E-07 U
2,3,4,4',6-Pentachlorobiphenyl (PCB 115)	mg/Kg		--	--	--	--	--	0.00068	1.1E-06 J	--	--
2,3,4,4'-Tetrachlorobiphenyl (PCB 60)	mg/Kg		0.00057 J	0.00014 J+	4.7E-06 J	6.2E-06 J	4.7E-05	0.00018	3E-07 U	0.00022	4.3E-07 U
2,3',4,4'-Tetrachlorobiphenyl (PCB 66)	mg/Kg		0.0057	0.00059 J+	2.5E-05 J	3E-05 J	0.00015	0.00081	8.2E-07 J	0.001	3E-06 J
2,3',4,5,5'-Pentachlorobiphenyl (PCB 120)	mg/Kg		0.0007 U	1.6E-05 U	1.3E-06 U	3E-06 U	2.7E-06 U	1.4E-05 U	2.7E-07 U	4.5E-05 UJ+	4.8E-07 U
2,3',4,5',6-Pentachlorobiphenyl (PCB 121)	mg/Kg		0.00065 U	1.5E-05 U	1.2E-06 U	2.8E-06 U	2.6E-06 U	1.3E-05 U	2.5E-07 U	4.3E-05 UJ+	4.5E-07 U
2,3,4',5-Tetrachlorobiphenyl (PCB 63)	mg/Kg		8.9E-05 U	1.3E-05 J	1.3E-06 U	1.1E-06 J	4.9E-06 J	8.2E-06 J	2.7E-07 U	3.1E-05	3.8E-07 U
2,3',4,5-Tetrachlorobiphenyl (PCB 67)	mg/Kg		8.9E-05 U	7.5E-06 U	1.3E-06 U	1.1E-06 U	6.1E-06 J	6.5E-06 J	2.7E-07 U	2.1E-05	3.8E-07 U
2,3',4,5'-Tetrachlorobiphenyl (PCB 68)	mg/Kg		8.5E-05 U	7.1E-06 U	1.2E-06 U	1E-06 U	1.1E-06 U	3.1E-06 U	2.6E-07 U	7.3E-06 U	3.6E-07 U
2,3,4',6-Tetrachlorobiphenyl (PCB 64)	mg/Kg		0.0027	9.2E-05 J+	1.2E-05 J	2.4E-05 J	5.2E-05	4.7E-05	3.1E-07 J	0.00055	1.6E-06 J
2,3,4'-Trichlorobiphenyl (PCB 22)	mg/Kg		9.1E-05 J	6.4E-05 J+	7.8E-06 J	6.5E-06 J	7.3E-05	3.6E-05	3.6E-07 U	0.00024	8.6E-07 J
2,3',4-Trichlorobiphenyl (PCB 25)	mg/Kg		3.2E-05 U	6.9E-06 J	1.2E-06 U	8.6E-07 U	5.9E-06 J	1.2E-05 J	3.2E-07 U	3.1E-05	3E-07 U
2,3',5,5'-Tetrachlorobiphenyl (PCB 72)	mg/Kg		9.2E-05 U	7.7E-06 U	1.3E-06 U	1.1E-06 U	1.2E-06 U	3.4E-06 U	2.8E-07 U	7.9E-06 U	3.9E-07 U
2,3',5',6-Tetrachlorobiphenyl (PCB 73)	mg/Kg		5.1E-05 U	1.5E-06 U	6.5E-07 U	5.4E-07 U	4.7E-07 U	3.8E-07 U	1.8E-07 U	1.2E-06 U	2.2E-07 U
2,3,5-Trichlorobiphenyl (PCB 23)	mg/Kg		3.1E-05 U	3.5E-06 U	1.2E-06 U	8.3E-07 U	1.9E-06 U	3.3E-06 U	3.1E-07 U	8.5E-06 U	2.9E-07 U

Table 3-7. Soil Summary - PCBs
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

		Site Area	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8
		PSA (If Applicable)	Drainage Ditches	DrainageDitches	None	None	PSA-35	None	None	None	None
		Location	Alpha Line	DD-B-10	NE-B-1	NE-B-2	NE-B-3	NE-B-6	NE-B-6	NE-B-7	NE-B-7
		Sample Name	AL-2	DD-B-10_SS	NE-B-1_SS	NE-B-2_SS	NE-B-3_SS	NE-B-6 0-0.5	NE-B-6 5.0-6.5	NE-B-7 0-0.5	NE-B-7 5.0-6.5
		Start Depth	2	0	0	0	0	0	5	0	5
		End Depth	2.5	0.5	0.5	0.5	0.5	0.5	6.5	0.5	6.5
		Depth Units	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	7/30/2014	12/4/2013	11/22/2013	11/22/2013	11/22/2013	3/20/2014	3/20/2014	3/20/2014	3/20/2014
		Parent Sample									
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL									
2,3',5'-Trichlorobiphenyl (PCB 34)	mg/Kg		3.3E-05 U	3.6E-06 U	1.2E-06 U	8.6E-07 U	2E-06 U	3.4E-06 U	3.2E-07 U	8.8E-06 U	3E-07 U
2,3,6-Trichlorobiphenyl (PCB 24)	mg/Kg		4.1E-05 U	1.5E-06 U	1.1E-06 U	1.1E-06 U	7.4E-07 U	7.6E-07 J	3.4E-07 U	4.1E-06 J	3.7E-07 U
2,3',6-Trichlorobiphenyl (PCB 27)	mg/Kg		4.1E-05 U	2.5E-06 J	1.1E-06 U	1.1E-06 U	3.7E-06 J	1.3E-06 J	3.4E-07 U	2.7E-05	3.7E-07 U
2,3-Dichlorobiphenyl (PCB 5)	mg/Kg		0.00031 U	1.2E-05 U	5.9E-06 U	5.6E-06 U	4.4E-06 U	2.7E-06 U	1.7E-06 U	5.3E-06 J	2E-06 U
2,3'-Dichlorobiphenyl (PCB 6)	mg/Kg		0.00031 U	4.3E-05 J+	5.9E-06 U	5.7E-06 U	4.4E-06 U	2.1E-05	1.7E-06 U	3.7E-05	2E-06 U
2,4',5-Trichlorobiphenyl (PCB 31)	mg/Kg		0.00031 J	0.00016 J+	1.6E-05 J	1.3E-05 J	0.00011	0.0001	5.9E-07 J	0.00047	2E-06 J
2,4',6-Trichlorobiphenyl (PCB 32)	mg/Kg		3.8E-05 J	9.5E-06 J	1.6E-06 J	2.8E-06 J	1.5E-05 J	5.1E-06 J	2.7E-07 U	8.8E-05	4.8E-07 J
2,4-Dichlorobiphenyl (PCB 7)	mg/Kg		0.00029 U	1.1E-05 U	5.5E-06 U	5.3E-06 U	4.1E-06 U	4.2E-06 J	1.6E-06 U	3.3E-06 J	1.8E-06 U
2,4'-Dichlorobiphenyl (PCB 8)	mg/Kg		0.00031 U	8.2E-05 J+	5.8E-06 U	5.5E-06 U	2E-05 J	9.6E-05	1.7E-06 U	0.00013	1.9E-06 U
2,5-Dichlorobiphenyl (PCB 9)	mg/Kg		0.00033 U	2.3E-05 J	6.2E-06 U	6E-06 U	4.6E-06 U	1E-05 J	1.8E-06 U	1.3E-05 J	2.1E-06 U
2,6-Dichlorobiphenyl (PCB 10)	mg/Kg		0.00015 U	3.2E-05 U	1.6E-05 U	1.7E-05 U	8.9E-06 U	2E-06 U	3.2E-06 U	3E-06 U	4E-06 U
2-Chlorobiphenyl (PCB 1)	mg/Kg		1.2E-05 J	5.1E-05	5.1E-06 J	3.4E-06 J	7E-06 J	5.4E-05	2.2E-07 U	3.6E-05	2.5E-07 U
3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	mg/Kg		0.00019 UJ+	2.1E-05 J+	5.9E-07 U	1.1E-06 U	9.1E-07 U	5E-06 UJ+	3.7E-07 U	1.2E-05 J+	3.5E-07 U
3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	mg/Kg		0.0012 UJ+	0.00011 J+	1.5E-06 U	4.3E-06	5.8E-06	3.3E-05 J+	3.8E-07 U	7.8E-05 J+	6.4E-07 U
3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	mg/Kg		0.0006 J	0.00034 J+	1.5E-06 U	9.6E-06	3.2E-05	0.00017 J+	4.1E-07 U	0.00025 J+	5.6E-07 U
3,3',4,5,5'-Pentachlorobiphenyl (PCB 127)	mg/Kg		0.0008 U	1.8E-05 U	1.5E-06 U	3.5E-06 U	3.2E-06 U	1.6E-05 U	3.1E-07 U	5.2E-05 UJ+	5.5E-07 U
3,3',4,5-Tetrachlorobiphenyl (PCB 78)	mg/Kg		0.00011 U	9.1E-06 U	1.5E-06 U	1.3E-06 U	1.4E-06 U	4E-06 U	3.2E-07 U	9.3E-06 U	4.6E-07 U
3,3',4,5'-Tetrachlorobiphenyl (PCB 79)	mg/Kg		0.00066 J	3.1E-05 J	1.3E-06 U	3.5E-06 J	3.2E-06 J	3.4E-06 U	2.8E-07 U	1.6E-05 J	4E-07 U
3,3',4-Trichlorobiphenyl (PCB 35)	mg/Kg		3.8E-05 U	2.1E-05 J	1.4E-06 U	1E-06 U	6.8E-06 J	1.6E-05 J	2.2E-06 J	2.8E-05	3.5E-07 U
3,3',5,5'-Tetrachlorobiphenyl (PCB 80)	mg/Kg		8.9E-05 U	7.5E-06 U	1.3E-06 U	1.1E-06 U	1.2E-06 U	3.3E-06 U	2.7E-07 U	7.7E-06 U	3.8E-07 U
3,3',5-Trichlorobiphenyl (PCB 36)	mg/Kg		3.3E-05 U	3.7E-06 U	1.2E-06 U	8.8E-07 U	2E-06 U	3.5E-06 U	3.3E-07 U	9E-06 U	3.1E-07 U
3,3'-Dichlorobiphenyl (PCB 11)	mg/Kg		0.00032 U	2.7E-05 J	6.1E-06 U	5.8E-06 U	1.8E-05 J	2E-05 J	9.3E-06 J	3.7E-05	6E-06 J
3,4,4',5-Tetrachlorobiphenyl (PCB 81)	mg/Kg		0.00015 UJ+	1.6E-05 J+	1.4E-06 U	1.2E-06 U	1.4E-06 U	1.5E-05 J+	3.9E-07 U	1.1E-05 UJ+	5.6E-07 U
3,4,4'-Trichlorobiphenyl (PCB 37)	mg/Kg		0.00041 J	0.00026	4.6E-06 J	1.9E-05 J	9.4E-05	0.00043	4.5E-07 U	0.00046	1.5E-06 J
3,4,5-Trichlorobiphenyl (PCB 38)	mg/Kg		3.6E-05 U	4E-06 U	1.3E-06 U	9.4E-07 U	2.1E-06 U	3.7E-06 U	3.5E-07 U	9.6E-06 U	3.3E-07 U
3,4',5-Trichlorobiphenyl (PCB 39)	mg/Kg		3.3E-05 U	4.3E-06 J	1.3E-06 U	8.8E-07 U	2E-06 U	3.5E-06 U	3.3E-07 U	9.1E-06 U	3.1E-07 U
3,5-Dichlorobiphenyl (PCB 14)	mg/Kg		0.00027 U	1E-05 U	5.1E-06 U	4.9E-06 U	3.8E-06 U	2.4E-06 U	1.5E-06 U	2.2E-06 U	1.7E-06 U
3-Chlorobiphenyl (PCB 2)	mg/Kg		1E-05 J	3.1E-05 J	3.1E-06 J	1.8E-06 J	1E-05 J	2.9E-05	2.3E-07 U	3.1E-05	2.5E-07 U
4,4'-Dichlorobiphenyl (PCB 15)	mg/Kg		0.00047 U	0.0002 J+	5.8E-06 U	5.4E-06 U	4.9E-05	0.00065	2E-06 U	0.0003	2.3E-06 U
4-Chlorobiphenyl (PCB 3)	mg/Kg		2.4E-05 J	6.6E-05	8.1E-06 J	3E-06 J	4.2E-05 J	8.7E-05	2.4E-07 U	4.1E-05	2.6E-07 U
Decachlorobiphenyl (PCB 209)	mg/Kg		0.11	0.012 J	7.9E-05	0.002	0.0016	0.026 J	7.4E-06 J	0.043 J	0.00024
PCB 107/124	mg/Kg		0.0013 J	8.3E-05 J	2.8E-06 J	6.2E-06 J	9.1E-06 J	2.6E-05 J	2.8E-07 U	0.00013 J+	5E-07 U
PCB 108/124	mg/kg		--	--	--	--	--	--	--	--	--
PCB 110/115	mg/Kg		0.065	0.0016 J+	0.00011	0.00029	0.00026	0.00068	1.1E-06 J	0.006 J	1.7E-05 J
PCB 12/13	mg/Kg		0.00033 U	7.3E-05 J	6.2E-06 U	5.9E-06 U	4.6E-06 U	5.2E-05	1.8E-06 U	5.3E-05	2.1E-06 U
PCB 128/166	mg/Kg		0.01	0.00047	6.9E-06 J	5.6E-05 J	4.7E-05 J	0.00021	2.7E-07 U	0.001	3.3E-06 J
PCB 129/138/163	mg/Kg		0.07	0.0028	5.1E-05 J	0.00035	0.0003	0.0015	1.4E-06 J	0.0065 J	1.9E-05 J
PCB 134/143	mg/Kg		0.0031	5.6E-05 J	2.2E-06 J	1.3E-05 J	9.7E-06 J	2.9E-05 J	3.2E-07 U	0.00023	5.9E-07 U
PCB 135/151	mg/Kg		0.016	0.00034	1.5E-05 J	6.6E-05 J	6E-05 J	0.00011	2.9E-07 U	0.0014	3.1E-06 J
PCB 139/140	mg/Kg		0.00078 J	1.7E-05 J	1.1E-06 U	4E-06 J	4.2E-06 J	3E-05 J	2.7E-07 U	8.6E-05	5E-07 U
PCB 147/149	mg/Kg		0.043	0.00091	4.3E-05 J	0.00017	0.00016	0.00035	1E-06 J	0.0039	8E-06 J
PCB 153/168	mg/Kg		0.049	0.0019	4.1E-05 J	0.00022	0.0002	0.002	8.7E-07 J	0.0044 J	1.1E-05 J
PCB 156/157	mg/Kg		0.0089	0.00057 J+	5.8E-06 J	5.2E-05	4.6E-05	0.00044 J+	4E-07 U	0.00087 J+	2.7E-06 J
PCB 171/173	mg/Kg		0.006	0.00038	2.6E-06 J	3.3E-05 J	3.2E-05 J	0.00016	2.5E-07 U	0.00059	8.3E-07 J
PCB 18/30	mg/Kg		4.7E-05 U	3.6E-05 J	2.7E-06 J	5.3E-06 J	3.7E-05 J	1.5E-05 J	3.9E-07 U	0.00018	1.7E-06 J
PCB 180/193	mg/Kg		0.047	0.0043	2.6E-05 J	0.00028	0.00028	0.0028	7.7E-07 J	0.0046 J	8.4E-06 J
PCB 198/199	mg/Kg		0.0066	0.0017	6.5E-06 J	5.2E-05 J	6.9E-05 J	0.00031	3.5E-07 U	0.0011	2.1E-06 J
PCB 20/28	mg/Kg		0.0004 J	0.00017	1.7E-05 J	1.8E-05 J	0.00016	0.00076	1.2E-06 J	0.00067	2.9E-06 J
PCB 21/33	mg/Kg		4.2E-05 J	6.7E-05 J	8E-06 J	6.8E-06 J	7.7E-05 J	4.6E-05	3.5E-07 J	0.00026	1.1E-06 J
PCB 26/29	mg/Kg		3.3E-05 U	2.2E-05 J	1.2E-06 U	1.7E-06 J	1.6E-05 J	1.1E-05 J	3.2E-07 U	7.1E-05	4E-07 J
PCB 40/41/71	mg/kg		--	--	--	--	--	--	--	--	--
PCB 40/71	mg/Kg		0.00056 J	8.8E-05 J+	9.4E-06 J	1.8E-05 J	5.9E-05 J	3.2E-05 J	5E-07 J	0.00047	1.4E-06 J
PCB 43/73	mg/kg		--	--	--	--	--	--	--	--	--
PCB 44/47/65	mg/Kg		0.0072	0.00023 J+	2.8E-05 J	4E-05 J	0.0001 J	0.00022	8E-07 J	0.0013	5.1E-06 J

Table 3-7. Soil Summary - PCBs
Soil Samples-Areas 5 and 8
TIMET
Henderson, Nevada

		Site Area	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8	Area 8
		PSA (If Applicable)	Drainage Ditches	DrainageDitches	None	None	PSA-35	None	None	None	None
		Location	Alpha Line	DD-B-10	NE-B-1	NE-B-2	NE-B-3	NE-B-6	NE-B-6	NE-B-7	NE-B-7
		Sample Name	AL-2	DD-B-10_SS	NE-B-1_SS	NE-B-2_SS	NE-B-3_SS	NE-B-6 0-0.5	NE-B-6 5.0-6.5	NE-B-7 0-0.5	NE-B-7 5.0-6.5
		Start Depth	2	0	0	0	0	0	5	0	5
		End Depth	2.5	0.5	0.5	0.5	0.5	0.5	6.5	0.5	6.5
		Depth Units	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	7/30/2014	12/4/2013	11/22/2013	11/22/2013	11/22/2013	3/20/2014	3/20/2014	3/20/2014	3/20/2014
		Parent Sample									
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL									
PCB 45/51	mg/kg		--	--	--	--	--	--	--	--	--
PCB 49/69	mg/Kg		0.0057	0.00012 J+	1.4E-05 J	1.4E-05 J	5.1E-05 J	5.1E-05	4.8E-07 J	0.00062	1.6E-06 J
PCB 50/53	mg/Kg		0.00041 J	1.6E-05 J	2.2E-06 J	5.6E-06 J	1E-05 J	5.6E-06 J	2.1E-07 U	0.00011	2.6E-07 U
PCB 59/62/75	mg/Kg		4.8E-05 U	1.5E-05 J	1.4E-06 J	2.8E-06 J	1.1E-05 J	1.9E-05 J	1.7E-07 U	7.7E-05	2.1E-07 U
PCB 61/70/74/76	mg/Kg		0.0093	0.0011 J+	7.6E-05 J	6.4E-05 J	0.00024	0.00076	1.3E-06 J	0.0024	7E-06 J
PCB 83/99	mg/kg		--	--	--	--	--	--	--	--	--
PCB 85/116	mg/kg		--	--	--	--	--	--	--	--	--
PCB 85/116/117	mg/Kg		0.0069	0.0002 J+	1.2E-05 J	2.5E-05 J	3.3E-05 J	0.00018	3E-07 U	0.00074	2.2E-06 J
PCB 86/87/97/109/119/125	mg/Kg		0.033	0.00076 J+	6.4E-05 J	0.00011 J	0.00013 J	0.00035	3.1E-07 U	0.0029	7.2E-06 J
PCB 88/91	mg/Kg		0.0062	7.5E-05 J	1.1E-05 J	1.9E-05 J	2E-05 J	3.5E-05 J	3.4E-07 U	0.0005 J+	1.1E-06 J
PCB 90/101/113	mg/Kg		0.057	0.00097 J+	9.8E-05 J	0.00015	0.00017	0.00043	7.6E-07 J	0.0042	1.2E-05 J
PCB 93/100	mg/Kg		0.0009 U	2E-05 U	1.7E-06 U	3.9E-06 U	3.5E-06 U	1.8E-05 U	3.4E-07 U	5.9E-05 UJ+	6.1E-07 U
PCB 98/102	mg/Kg		0.00083 U	1.9E-05 U	1.6E-06 U	3.6E-06 U	3.6E-06 J	1.7E-05 U	3.2E-07 U	5.8E-05 J+	5.7E-07 U
Total Dichlorobiphenyl	mg/Kg		0.00047 U	0.00045 J+	2.8E-05 U	3.1E-05 U	8.6E-05 J	0.00088	9.3E-06 J	0.00063	6E-06 J
Total Heptachlorobiphenyl	mg/Kg		0.16	0.013 J+	8.4E-05 J	0.00091 J+	0.00091 J+	0.0053	7.7E-07 J	0.016	2.5E-05 J
Total Hexachlorobiphenyl	mg/Kg		0.27 J	0.0095 J+	0.00022 J	0.0013	0.0011	0.0058	3.2E-06 J	0.025	5.5E-05 J
Total Monochlorobiphenyl	mg/Kg		4.6E-05 J	0.00015 J	1.6E-05 J	8.1E-06 J	6E-05 J	0.00017 J	2.4E-07 U	0.00011 J	2.6E-07 U
Total Nonachlorobiphenyl	mg/Kg		0.0063 J	0.0026	1.5E-05 J	0.00015 J	0.00022 J	0.0054	3.9E-07 U	0.0024	7.5E-06 J
Total Octachlorobiphenyl	mg/Kg		0.027 J	0.0066	2.7E-05 J	0.00023 J	0.00031 J	0.004	4.1E-07 U	0.0042	7E-06 J
Total Pentachlorobiphenyl	mg/Kg		0.33	0.0093 J+	0.00055 J+	0.0012 J+	0.0013 J+	0.0056	3.6E-06 J	0.03 J	7.8E-05 J
Total Tetrachlorobiphenyl	mg/Kg		0.07 J	0.0036 J+	0.00025 J	0.00032 J	0.0011 J+	0.0026	5.4E-06 J	0.011 J	3E-05 J
Total Trichlorobiphenyl	mg/Kg		0.0013 J	0.00087 J+	5.8E-05 J	7.5E-05 J	0.00065 J+	0.0015	4.3E-06 J	0.0029	1.3E-05 J
Total PCBs (Lab calculated)	mg/Kg	0.83	**0.97 J**	0.058 J+	0.0013 J+	0.0061 J+	0.0073 J+	0.057	3.4E-05 J	0.13 J	0.00047 J
Total TEQ - Sum of Dioxin/Furan and PCB Congener	mg/Kg	0.001	0.00014 J	1.2E-05 J	2.6E-09	4.4E-07	3.3E-06 J	2.9E-05 J	8.7E-08 J	5E-05 J	1.3E-07 J
Total TEQ - Sum of Dioxin/Furan and PCB Congener	pg/g	1000	140 J	12 J	0.0026	0.44	3.3 J	29 J	0.087 J	50 J	0.13 J
Total TEQ-Dioxin/Furan only	mg/Kg	0.001	0.00013 J	--	--	--	2.7E-06 J	2.6E-05	8.7E-08 J	4.1E-05	1.3E-07 J
Total TEQ-Dioxin/Furan only	pg/g	1000	130 J	--	--	--	2.7 J	26	0.087 J	41	0.13 J
Total TEQ-PCB Congener Only	mg/Kg		2.3E-06 J	1.2E-05 J	2.6E-09	4.4E-07	6E-07	3.4E-06 J	3.3E-11 J	8.4E-06 J	7.6E-10 J
Total TEQ-PCB Congener Only	pg/g		2.3 J	12 J	0.0026	0.44	0.6	3.4 J	3.3E-05 J	8.4 J	0.00076 J

Notes:
-- = Sample not analyzed for this compound
* LCS or LCSD exceeds the control limits
+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
blue shading = analyte concentration exceeds
comparison level for Industrial Outdoor Worker BCL

Table 3-8. Soil Summary - Dioxins
Area 5 and Area 8 Soils
TIMET
Henderson, Nevada

				Site Area	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 8	Area 8	Area 8	Area 8	Area 8
				PSA (if applicable)	DrainageDitches	DrainageDitches	DrainageDitches	FrancyMtn	FrancyMtn	FrancyMtn	Drainage Ditches	Drainage Ditches	PSA 35	None	None
				Location	DD-B-4	DD-B-8	DD-B-9	FM-SS-2	FM-SS-2	FM-SS-3	Alpha Line	Alpha Line	NE-B-3	NE-B-6	NE-B-6
				Sample Name	DD-B-4_SS	DD-B-8_SS	DD-B-9_SS	FM-SS-2_SS	FM-SS-2_SS DUP	FM-SS-3_SS	AL-1	AL-2	NE-B-3_SS	NE-B-6 0-0.5	NE-B-6 5.0-6.5
				Start Depth	0	0	0	0	0	0	5	2	0	0	5
				End Depth	0.5	0.5	0.5	0.5	0.5	0.5	5.5	2.5	0.5	0.5	6.5
				Depth Units	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Date	12/2/2013	12/4/2013	12/3/2013	11/20/2013	11/20/2013	11/20/2013	7/30/2014	7/30/2014	11/22/2013	3/20/2014	3/20/2014
				Parent Sample					FM-SS-2_SS_11/20/13						
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF20												
1,2,3,4,5,6,7,8-Octachlorodibenzofuran (OCDF)	mg/Kg			0.037	0.0014	0.0066	0.0046 J	0.014 J-	0.1	0.0092	0.027	8.1E-05	0.00067	8E-06 J	
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	mg/Kg			0.00066	7.7E-05	0.00016	3.5E-05 J	0.00013 J-	0.00045	0.00015	0.0011	1E-05 J	7.3E-05 J+	5.4E-05 J+	
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	mg/Kg			0.0011	0.0002	0.00016	8.1E-05 J	0.00027 J-	0.00098	0.0003	0.0012	1.5E-05 J+	0.00014	1.2E-06 J	
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	mg/Kg			0.00011	2.2E-05	1.9E-05	3.8E-06 J	1.8E-05 J-	4.3E-05	2.3E-05 J	0.0002	1.9E-06 J	8.9E-06	2.3E-06 J	
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	mg/Kg			0.00039	6.6E-05	4E-05	4.2E-05 J	0.00015 J-	0.00048	8.3E-05	0.0004	3.2E-06 J	3.9E-05	5.5E-08 U	
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	mg/Kg			0.00056	9.2E-05	5E-05	7.2E-05 J	0.00025 J-	0.0007	8.1E-05	0.00047	6.1E-06 J	0.0001	1.5E-07 J	
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	mg/Kg			1E-05 J	2.1E-06 J	9.5E-07 J	3.8E-07 J	1.6E-06 J	3.6E-06 J	2E-06 J	1.7E-05 J	5.1E-08 U	2.7E-07 J	2.7E-08 U	
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	mg/Kg			0.00018	5.1E-05	2.1E-05	1.4E-05 J	5.6E-05 J-	0.00012	3.1E-05 J	0.00013	3E-06 J	2.9E-05	2.2E-08 U	
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	mg/Kg			1.9E-05	4.8E-06 J	2.3E-06 J	7.5E-07 J	3.6E-06 J	7E-06 J	3.6E-06 J	1.4E-05 J	4.8E-07 J	6.8E-07 J	1.1E-07 J	
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	mg/Kg			2.6E-05	6.1E-06 J	2.7E-06 J	2.2E-06 J	7.5E-06 J	2.3E-05	4.2E-06 J	1.9E-05 J	3.9E-07 J	3.6E-06 J	2.7E-08 U	
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	mg/Kg	0.000309		2E-05	4.3E-06 J	2.6E-06 J	5.7E-07 J	3.9E-06 J	6.6E-06 J	3.1E-06 J	1.5E-05 J	7E-07 J	1.1E-06 J	2E-08 U	
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	mg/Kg			0.00018	3.6E-05	1.6E-05	1.5E-05 J	5.8E-05 J-	0.00014	2.4E-05 J	0.00012	2.9E-06 J	3.1E-05	1.9E-08 U	
1,2,3,7,8-Pentachlororodibenzo-p-dioxin (PeCDD)	mg/Kg			1.2E-05	2.5E-06 J	1.2E-06 J	4.7E-07 J	2.6E-06 J	4.2E-06 J	3.7E-06 U	5.6E-06 J	2E-07 J	5.3E-07 J	2.6E-08 U	
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	mg/Kg			7.8E-05	1.2E-05	8.3E-06 J	6.6E-06 J	2E-05 J-	5.6E-05	1.1E-05 J	4.3E-05 J	1.2E-06 J	1E-05	2.5E-08 U	
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	mg/Kg			0.0001	2.1E-05	9.7E-06 J	6.9E-06 J	2.7E-05 J-	6.1E-05	1.7E-05 J	5.7E-05	1.5E-06 J	2E-05	1.9E-08 U	
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	mg/Kg			0.00021	2.3E-05	1.8E-05	1.7E-05 J	7.5E-05 J-	0.00013	2.6E-05	8.5E-05	4.3E-06	1.5E-05	7.1E-08 J	
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	mg/Kg	0.001		5.1E-06	9.8E-07 J	6.9E-07 J	3.4E-07 J	1.1E-06 J	1.7E-06 J	2E-06 J	2.5E-06 J	1E-07 J	2.9E-07 J	2.1E-08 U	

Notes:
-- = Sample not analyzed for this compound
* LCS or LCSD exceeds the control limits
+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
blue shading = analyte concentration exceeds
comparison level for Industrial Outdoor Worker BCL

Table 3-8. Soil Summary - Dioxins
Area 5 and Area 8 Soils
TIMET
Henderson, Nevada

			Site Area	Area 8	Area 8
			PSA (if applicable)	None	None
			Location	NE-B-7	NE-B-7
			Sample Name	NE-B-7 0-0.5	NE-B-7 5.0-6.5
			Start Depth	0	5
			End Depth	0.5	6.5
			Depth Units	ft	ft
			Sample Date	3/20/2014	3/20/2014
			Parent Sample		
Chemical Name	Units	NDEP Industrial Outdoor Worker BCL	NDEP LBCL DAF20		
1,2,3,4,5,6,7,8-Octachlorodibenzofuran (OCDF)	mg/Kg			0.0025	9.8E-06 J
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	mg/Kg			0.00023	8.3E-07 J
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	mg/Kg			0.00027	1.3E-06 J
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	mg/Kg			3.8E-05	2.2E-07 J
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	mg/Kg			8.4E-05	3.2E-07 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	mg/Kg			0.00011	3E-07 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	mg/Kg			3E-06 J	3.2E-08 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	mg/Kg			5.1E-05	2E-07 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	mg/Kg			7E-06	7.8E-08 J
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	mg/Kg			6.5E-06	3.8E-08 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	mg/Kg	0.000309		6.9E-06	1.1E-07 J
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	mg/Kg			4.4E-05	2.6E-07 J
1,2,3,7,8-Pentachlororodibenzo-p-dioxin (PeCDD)	mg/Kg			3.1E-06 J	3.1E-08 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	mg/Kg			1.8E-05	3.6E-08 U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	mg/Kg			2.4E-05	3.3E-08 U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	mg/Kg			3.4E-05	2.5E-07 J
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	mg/Kg	0.001		1.3E-06	2.5E-08 U

Notes:
-- = Sample not analyzed for this compound
* LCS or LCSD exceeds the control limits
+/- = suspected high or low bias
D = data reported from secondary dilution
J = estimated concentration
R = data rejected (qualifier may be used in conjunction with other qualifier)
U = analyte not detected above referenced laboratory limit
UJ = analyte not detected above referenced laboratory limit;
reporting limit may be inaccruate or imprecise
blue shading = analyte concentration exceeds
comparison level for Industrial Outdoor Worker BCL

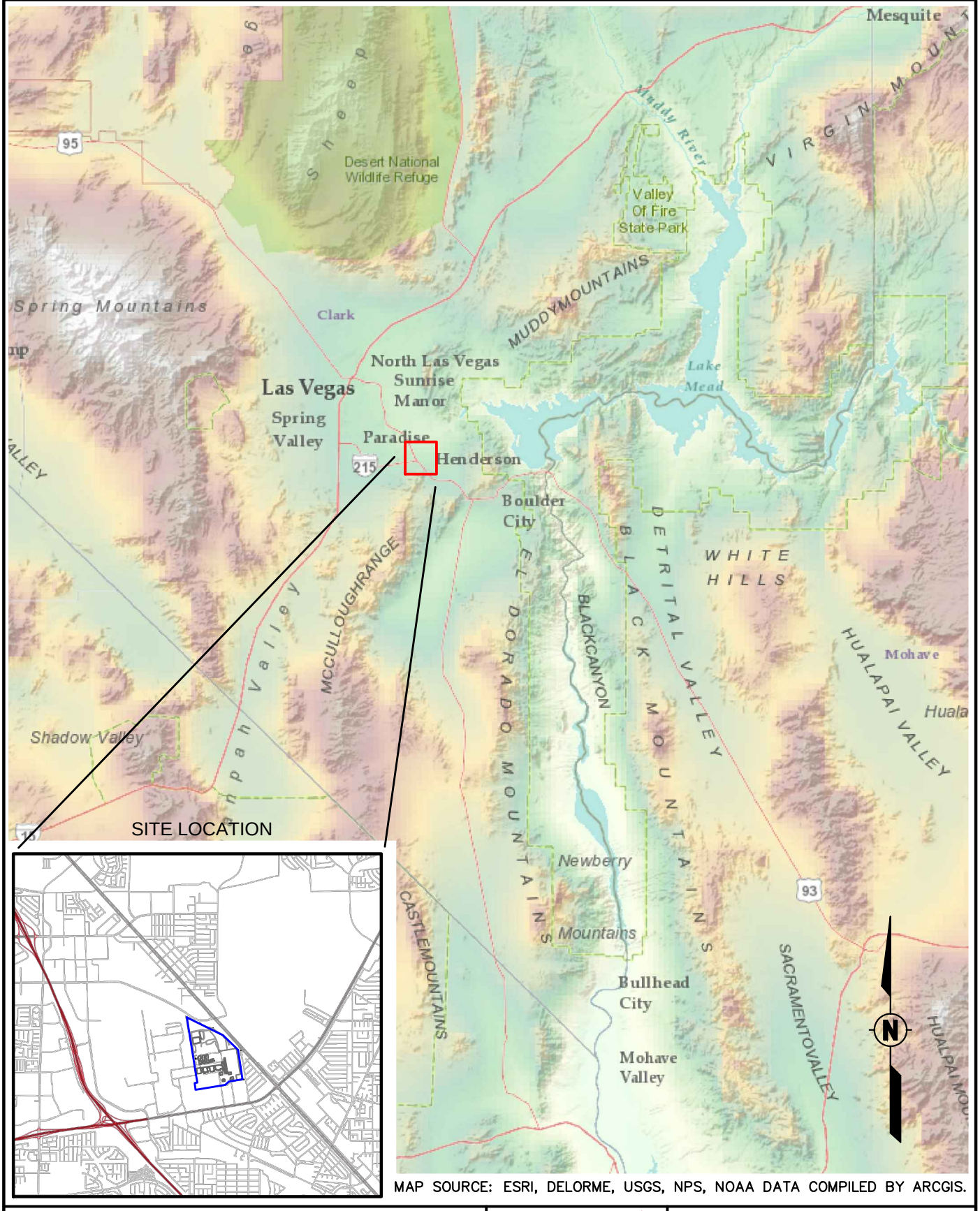
TABLE 3-9
ASBESTOS RESULTS (SURFACE SOIL) AND ANALYTICAL SENSITIVITIES
Area 5 and Area 8
Titanium Metals Corporation
Henderson, Nevada

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Analytical Sensitivity (10^6 s/gPM$_{10}$)	Concentration Total Protocol Structures[1]		Number of Protocol Structures[2]			
					Chrysotile (10^6 s/gPM$_{10}$)	Amphibole (10^6 s/gPM$_{10}$)	Chrysotile		Amphibole	
							Total	Long	Total	Long
DD-B-4	0	NORM	11/18/13	2.98	< 8.92 E+6	< 8.92 E+6	0	0	0	0
DD-B-8	0	NORM	11/18/13	2.97	< 8.90 E+6	< 8.90 E+6	0	0	0	0
DD-B-9	0	NORM	11/18/13	2.98	< 8.92 E+6	< 8.92 E+6	**1**	**1**	0	0
FM-SS-2	0	NORM	11/18/13	2.98	< 8.92 E+6	< 8.92 E+6	0	0	0	0
FM-SS-3	0	NORM	11/18/13	3.00	< 8.96 E+6	< 8.96 E+6	0	0	0	0
FM-SS-3-DUP	0	FD	11/18/13	2.96	< 8.85 E+6	< 8.85 E+6	0	0	0	0
NE-B-3	0	NORM	11/18/13	2.96	< 8.85 E+6	< 8.85 E+6	0	0	0	0

[1]Fiber dimensions are presented in the respective analytical reports for each sample.

[2]Only long structures (>10µm) present a potential risk and are used for estimating asbestos risks. Total fiber concentrations are presented for informational purposes only. Protocol structures are structures longer than 10 µm and thinner than 0.4 µm.

Figures



MAP SOURCE: ESRI, DELORME, USGS, NPS, NOAA DATA COMPILED BY ARCGIS.

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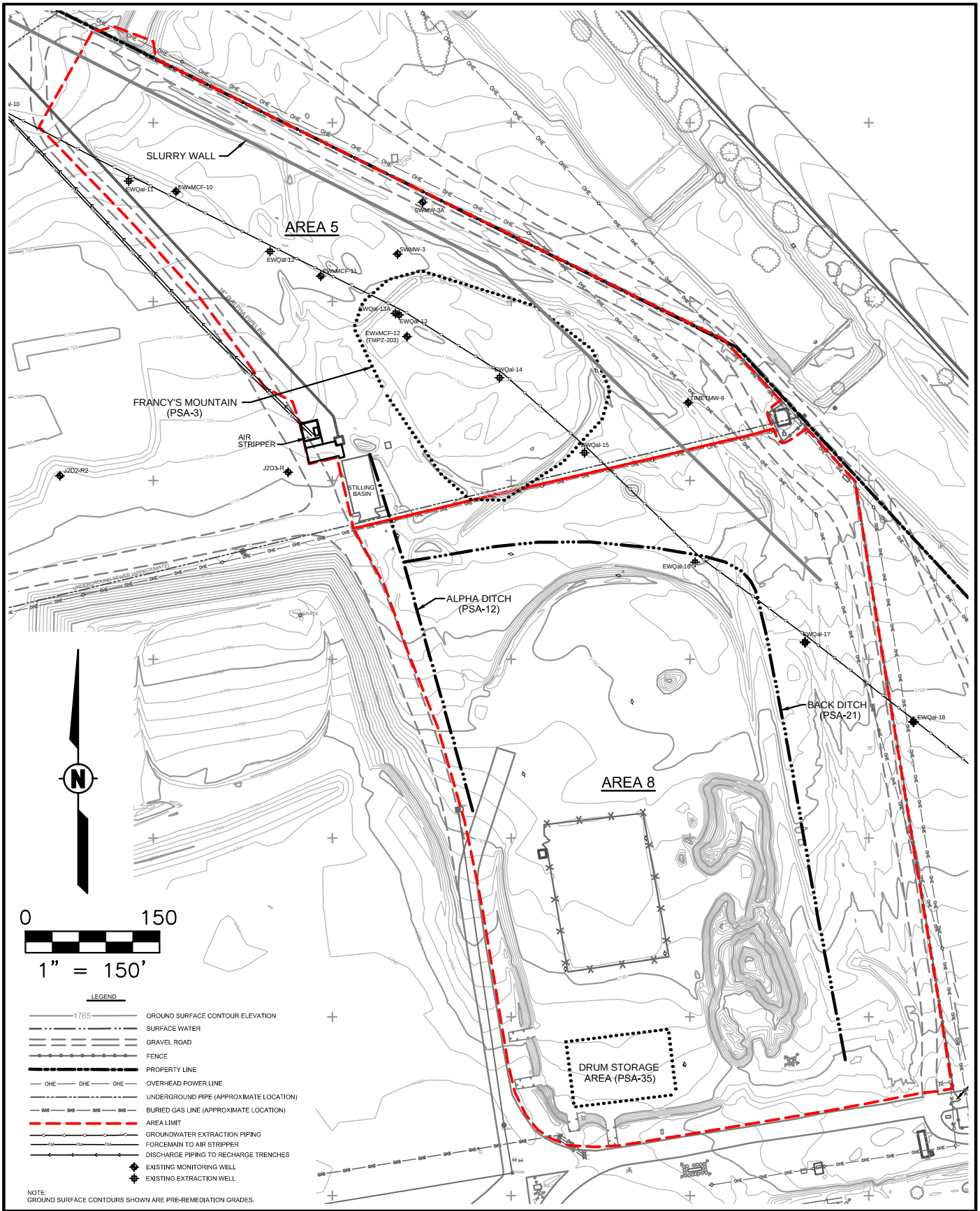
TIMET FACILITY
LOCATION MAP

Project 1323080 | December 2014 | Fig. 1-1

C:\GEI_Projects\Timet\NFA_Areas_5&8\Fig_1-1_Site-Location-Map



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AREAS 5 & 8 LOCATION PLAN

Project 1323080 | December 2014 | Fig. 1-2

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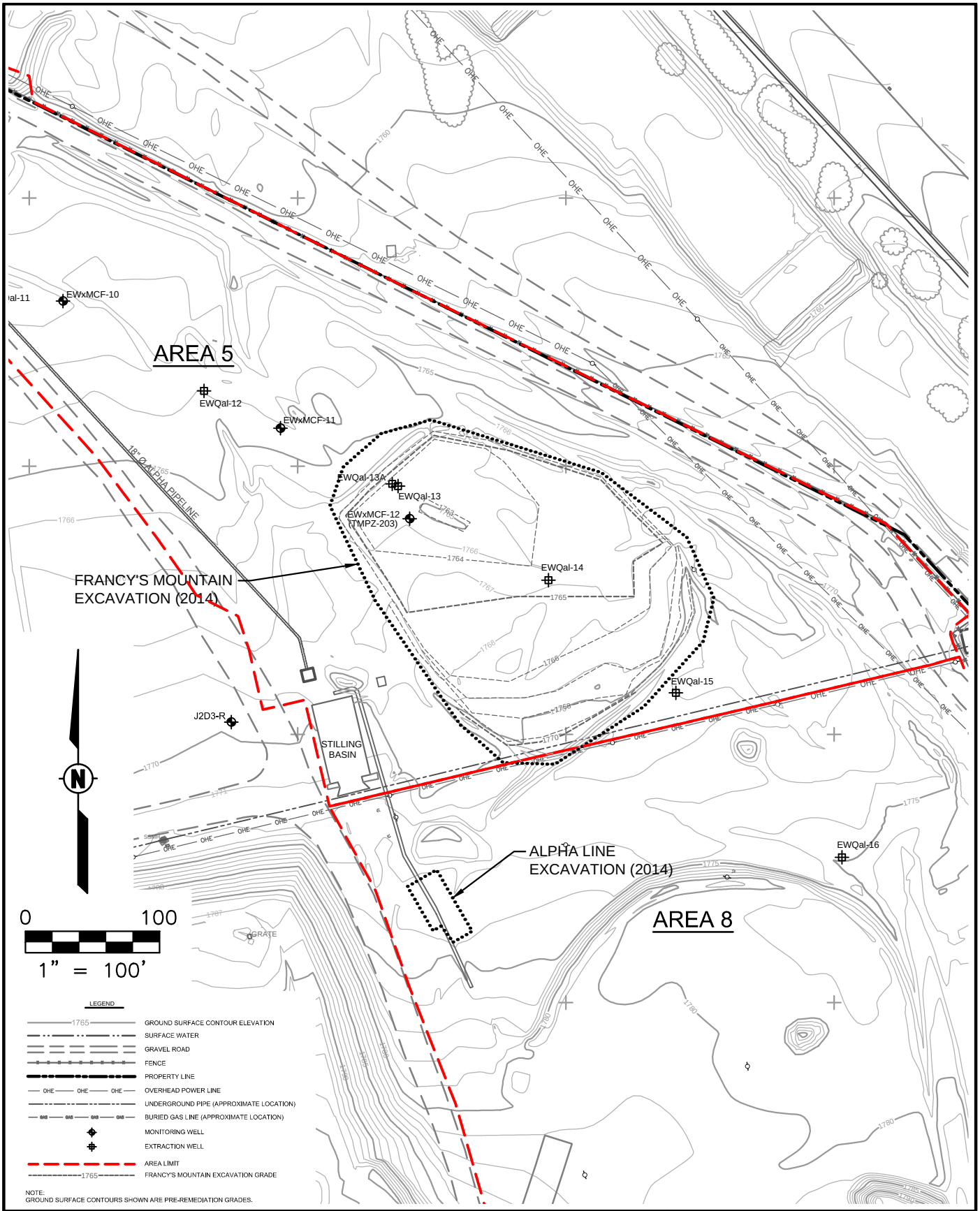

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AREAS 5 & 8
FRANCY'S MOUNTAIN AND
ALPHA LINE EXCAVATIONS

Project 1323080 | December 2014 | Fig. 1-3

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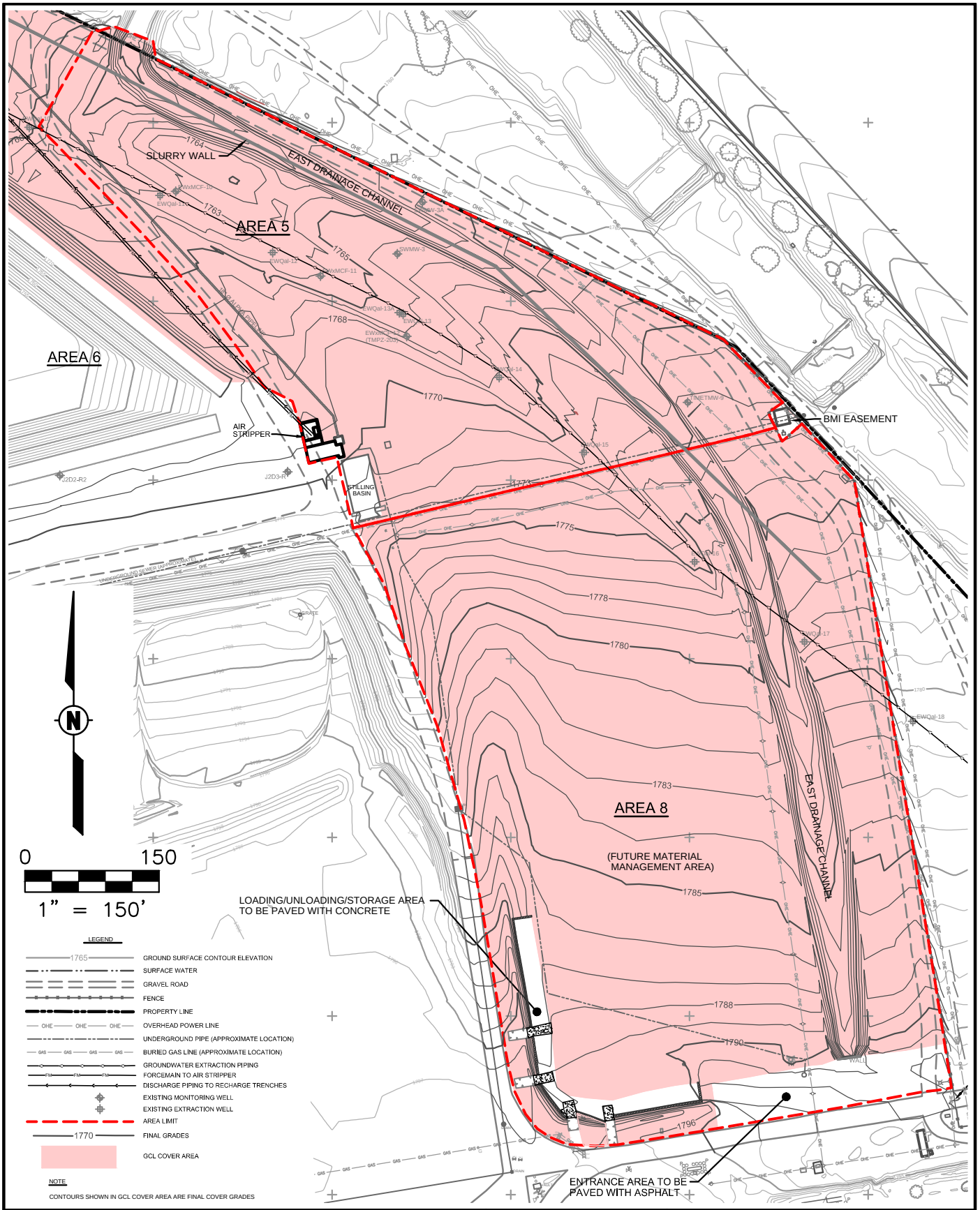

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AREAS 5 & 8 CURRENT CONDITIONS

Project 1323080 | December 2014 | Fig. 1-4

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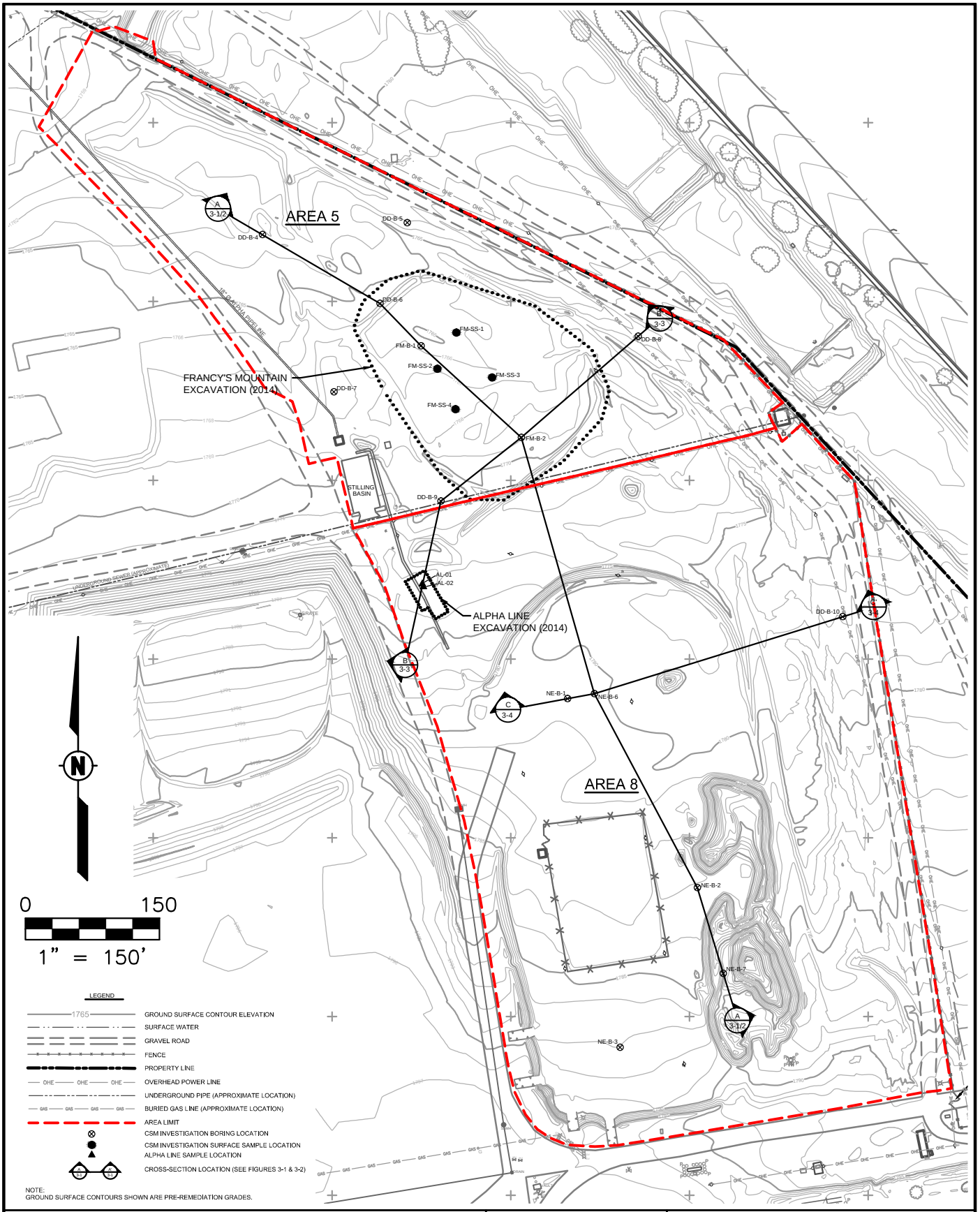

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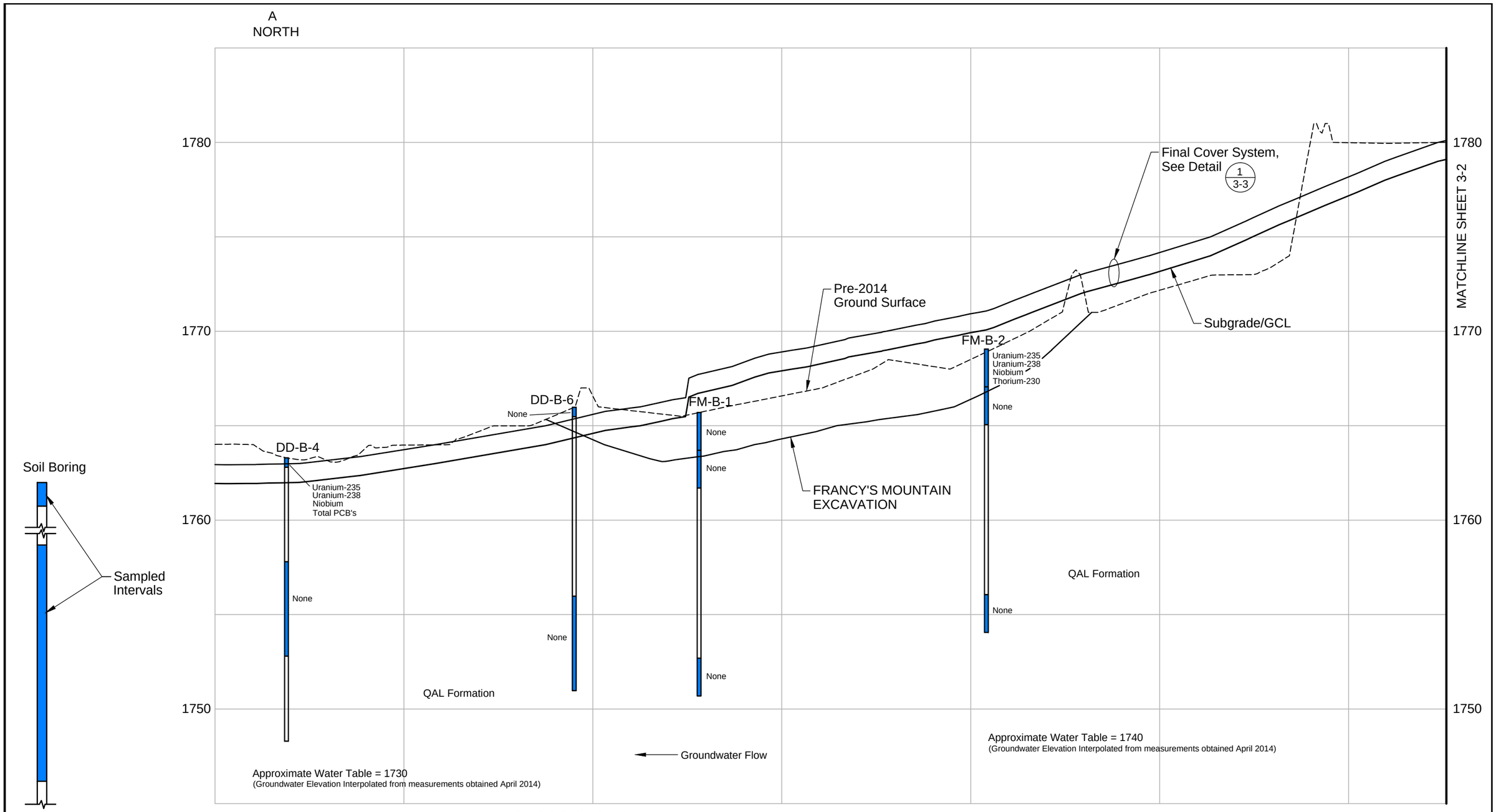
AREAS 5 & 8
SAMPLE LOCATIONS

Project 1323080 | December 2014 | Fig. 2-1

C:\GEI_Projects\Timet\NFA_Areas_5&8\Fig_2-1_Areas_5&8_Sample-Locations



CROSS-SECTION A-A'

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

Note:
Chemicals exceeding Basic Comparison Levels for Outdoor Industrial/Commercial Worker (non-cancer endpoint used for arsenic) are listed for each sampled interval.
Radium-226, Radium-228, and Thorium-228 exceed BCL's in all samples analyzed and are not listed.

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AREAS 5 & 8
CROSS-SECTION A-A'
(NORTH PORTION)

Project 1323080 | December 2014 | Fig. 3-1

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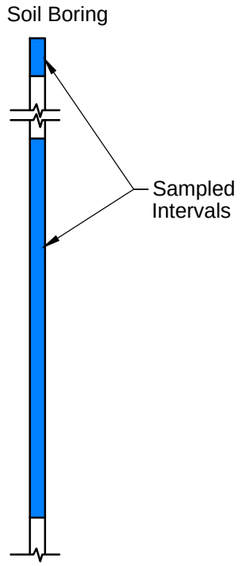

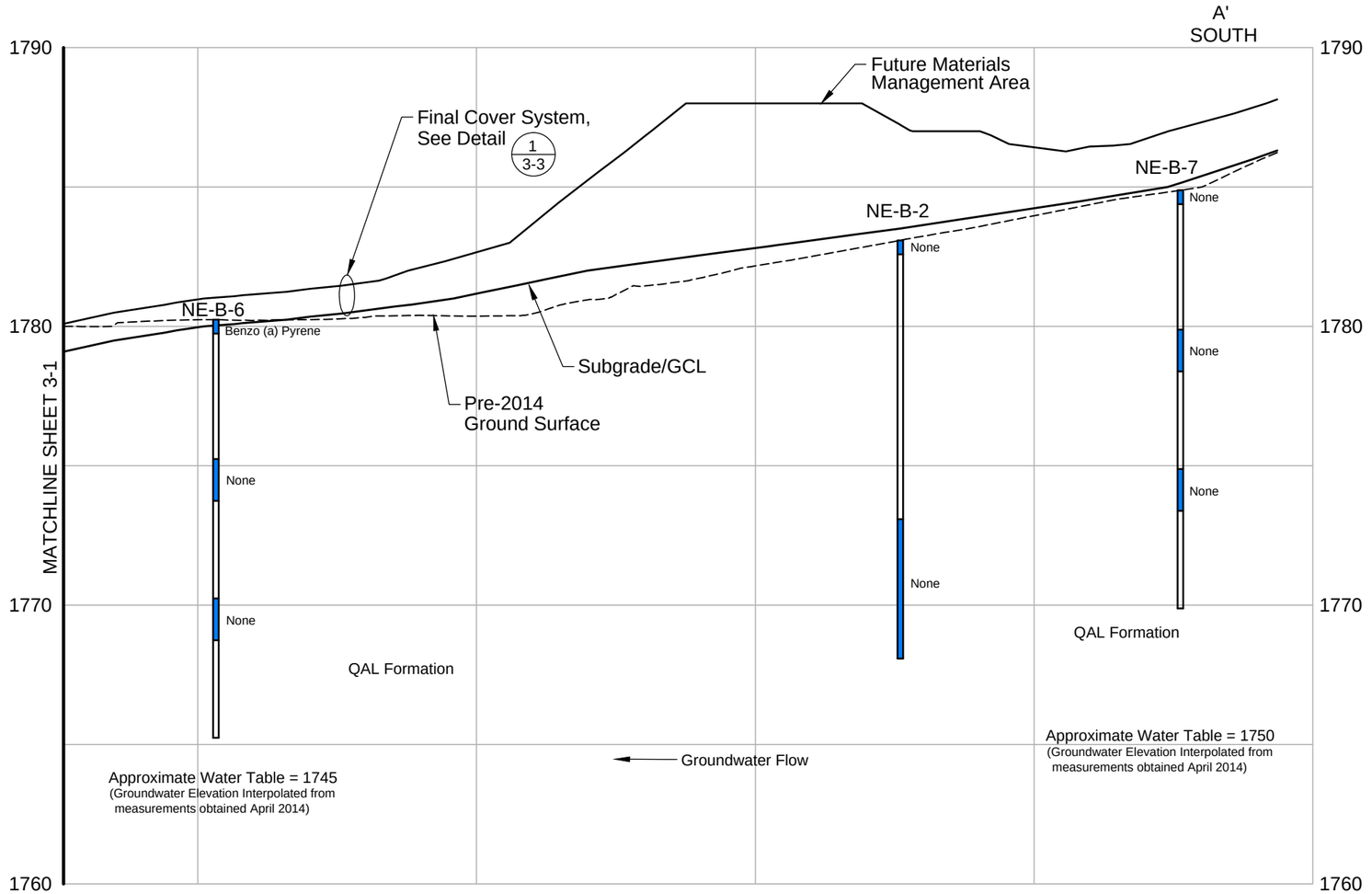

CROSS-SECTION A-A'

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

Note:
Chemicals exceeding Basic Comparison Levels for Outdoor Industrial/Commercial Worker (non-cancer endpoint used for arsenic) are listed for each sampled interval.
Radium-226, Radium-228, and Thorium-228 exceed BCL's in all samples analyzed and are not listed.

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AREAS 5 & 8
CROSS-SECTION A-A'
(SOUTH PORTION)

Project 1323080 | December 2014 | Fig. 3-2

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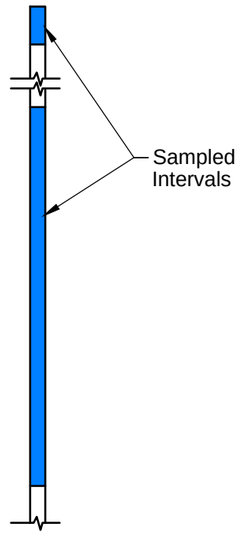
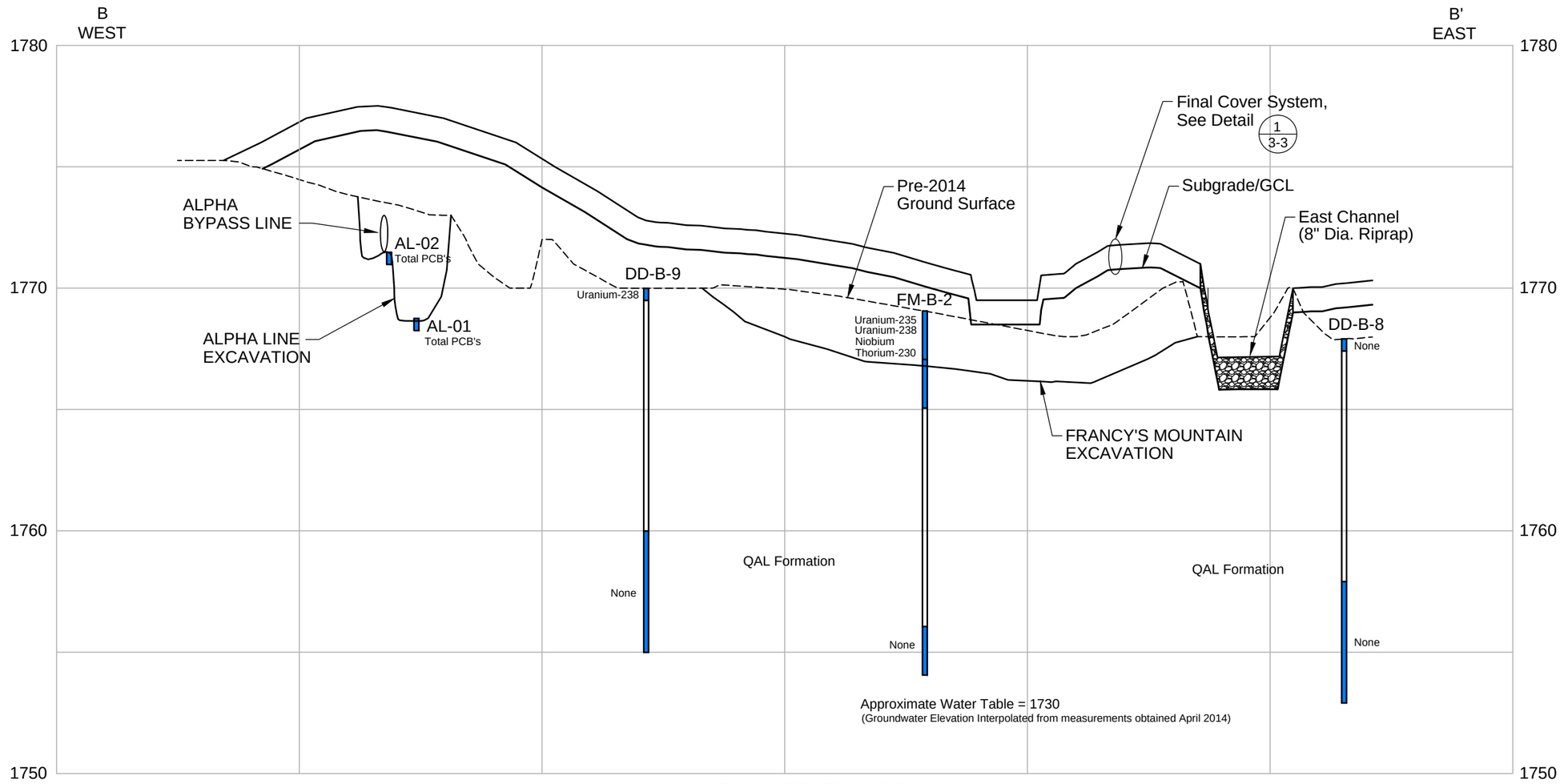
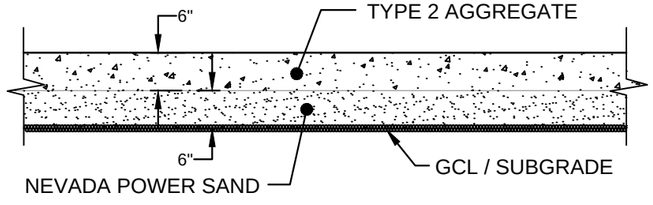




CROSS-SECTION B-B'

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.



1/3-3 FINAL COVER DETAIL
SCALE: 1"=2'

Note:
Chemicals exceeding Basic Comparison Levels for Outdoor Industrial/Commercial Worker (non-cancer endpoint used for arsenic) are listed for each sampled interval.
Radium-226, Radium-228, and Thorium-228 exceed BCL's in all samples analyzed and are not listed.

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AREAS 5 & 8
CROSS-SECTION B-B'

Project 1323080 | December 2014 | Fig. 3-3

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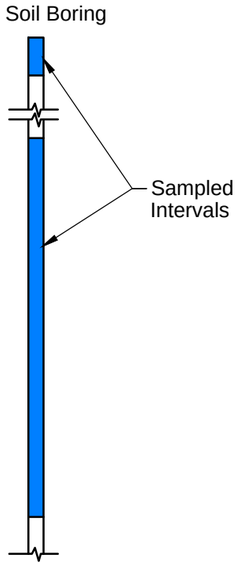

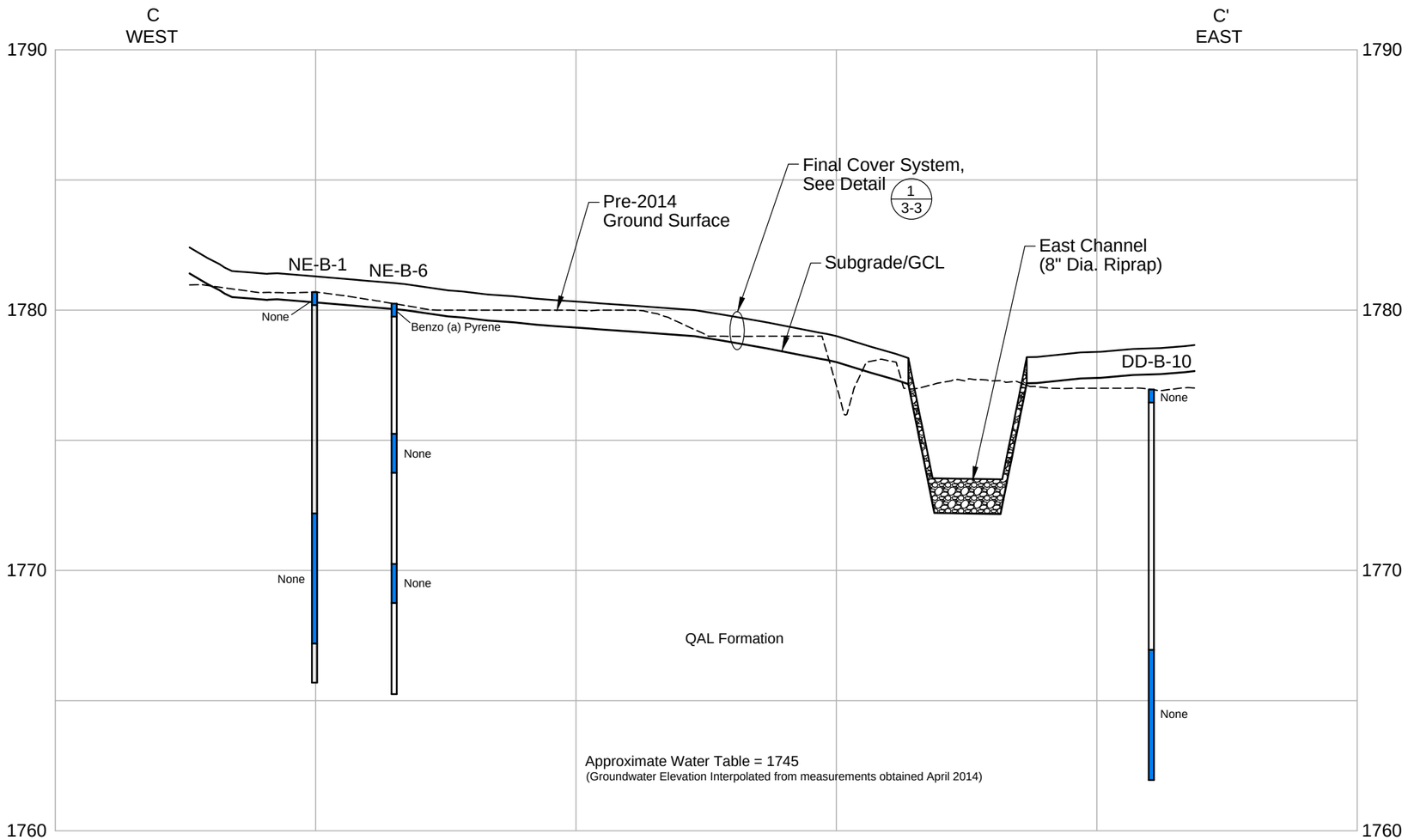

CROSS-SECTION C-C'

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

Note:
Chemicals exceeding Basic Comparison Levels for Outdoor Industrial/Commercial Worker (non-cancer endpoint used for arsenic) are listed for each sampled interval.
Radium-226, Radium-228, and Thorium-228 exceed BCL's in all samples analyzed and are not listed.

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AREAS 5 & 8
CROSS-SECTION C-C'

Project 1323080 | December 2014 | Fig. 3-4

C:\GEI_Projects\Timet\NFA_Areas_5&8\Fig_3-1_3-4_Cross-Sections

Appendix A

Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-5993-1
Client Project/Site: TIMET
Revision: 1

For:
GEI Consultants, Inc.
311 B Avenue
Suite F
Lake Oswego, Oregon 97034

Attn: Mr. Marc Chartier

Kathryn Smith

Authorized for release by:
5/23/2014 2:30:10 PM

Kathryn Smith, Project Manager II
(912)354-7858
kathy.smith@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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QC Sample Results 84
QC Association Summary 112
Surrogate Summary 119
Tracer Carrier Summary 121
Toxicity Summary 123
Isotope Dilution Summary 128

Job ID: 160-5993-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: GEI Consultants, Inc.

Project: TIMET

Report Number: 160-5993-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 03/21/2014; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.8º C and 2.1º C.

VOLATILE ORGANIC COMPOUNDS BY GC/MS

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), NE-B-7 10.0-11.5 (160-5993-3), DD-B-12 5-10 (160-5993-4), NE-B-6 10.0-11.5 (160-5993-5), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for Volatile Organic Compounds by GC/MS in accordance with EPA SW-846 Method 8260C. The samples were prepared and analyzed on 03/24/2014.

1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria low for NE-B-7 10.0-11.5 (160-5993-3). 4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria high. Refer to the QC report for details.

Dichlorodifluoromethane failed the recovery criteria high for LCS 160-112057/2-A. Bromomethane failed the recovery criteria high for LCS 160-112329/2-A. Dichlorodifluoromethane failed the recovery criteria high for LCSD 160-112057/3-A. Acetonitrile and Bromomethane exceeded the RPD limit for LCSD 160-112329/3-A. Refer to the QC report for details.

Job ID: 160-5993-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Internal standard (ISTD) and surrogate response for the following samples were outside control limits: DD-B-12 5-10 (160-5993-4), NE-B-6 0-0.5 (160-5993-7), NE-B-6 10.0-11.5 (160-5993-5), NE-B-6 5.0-6.5 (160-5993-6), NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2). The samples were re-extracted and/or re-analyzed with passing results, and the re-analysis sets of data have been reported.

The internal standard (ISTD) response for the following sample was outside control limits: NE-B-7 10.0-11.5 (160-5993-3). The sample was re-extracted and/or re-analyzed with concurring results, and the original set of data has been reported.

No other difficulties were encountered during the Volatiles analysis.
All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for Semivolatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/24/2014 and analyzed on 03/27/2014.

2-Fluorobiphenyl (Surr) failed the surrogate recovery criteria high for NE-B-7 0-0.5MS (160-5993-1MS).

Naphthalene failed the recovery criteria high for the MS/MSD of sample NE-B-7 0-0.5MS/MSD (160-5993-1) in batch 160-113346.

No other difficulties were encountered during the Semi-VOA analysis.
All other quality control parameters were within the acceptance limits.

PCB CONGENERS

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), DD-B-12 5-10 (160-5993-4), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for PCB Congeners in accordance with EPA 1668C. The samples were prepared on 03/24/2014 and analyzed on 04/12/2014.

Several analytes were detected in method blank MB 320-38915/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: NE-B-6 0-0.5 (160-5993-7), NE-B-7 0-0.5 (160-5993-1). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

No other difficulties were encountered during the PCB Congeners analysis.
All other quality control parameters were within the acceptance limits.

DIOXINS AND FURANS (HRGC/HRMS)

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), DD-B-12 5-10 (160-5993-4), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for Dioxins and Furans (HRGC/HRMS) in accordance with SW-846 Method 8290A. The samples were prepared on 03/24/2014 and analyzed on 04/12/2014 and 04/15/2014.

2,3,4,7,8-PeCDF, OCDD and OCDF were detected in method blank MB 320-38892/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the Dioxins and Furans analysis.
All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), NE-B-7 10.0-11.5 (160-5993-3), NE-B-6 10.0-11.5 (160-5993-5),

Job ID: 160-5993-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 03/24/2014 and analyzed on 04/09/2014.

Zinc was detected in method blank MB 160-112069/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Antimony, Magnesium and Manganese failed the recovery criteria low for the MS of sample NE-B-7 0-0.5MS (160-5993-1) in batch 160-115734. Aluminum and Calcium failed the recovery criteria high.

For the MSD of sample NE-B-7 0-0.5MSD (160-5993-1) in batch 160-115734, Antimony and Iron failed the recovery criteria low. Aluminum, Barium, Calcium and Manganese failed the recovery criteria high. Also, Calcium exceeded the RPD limit.

Samples NE-B-7 0-0.5 (160-5993-1)[10X], NE-B-7 5.0-6.5 (160-5993-2)[10X], NE-B-7 10.0-11.5 (160-5993-3)[10X], NE-B-6 10.0-11.5 (160-5993-5)[10X], NE-B-6 5.0-6.5 (160-5993-6)[10X] and NE-B-6 0-0.5 (160-5993-7)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.
All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), NE-B-7 10.0-11.5 (160-5993-3), NE-B-6 10.0-11.5 (160-5993-5), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 03/24/2014 and analyzed on 04/09/2014.

Niobium failed the recovery criteria low for the MS/MSD of sample NE-B-7 0-0.5MS/MSD (160-5993-1) in batch 160-115685.

Samples NE-B-7 0-0.5 (160-5993-1)[10X], NE-B-7 5.0-6.5 (160-5993-2)[10X], NE-B-7 10.0-11.5 (160-5993-3)[10X], NE-B-6 10.0-11.5 (160-5993-5)[10X], NE-B-6 5.0-6.5 (160-5993-6)[10X] and NE-B-6 0-0.5 (160-5993-7)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.
All other quality control parameters were within the acceptance limits.

MERCURY

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), NE-B-7 10.0-11.5 (160-5993-3), NE-B-6 10.0-11.5 (160-5993-5), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 03/31/2014 and analyzed on 04/01/2014.

No difficulties were encountered during the mercury analysis.
All quality control parameters were within the acceptance limits.

ANIONS, ION CHROMATOGRAPHY

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), NE-B-7 10.0-11.5 (160-5993-3), NE-B-6 10.0-11.5 (160-5993-5), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for Anions, Ion Chromatography in accordance with EPA Method 300.0. The samples were leached on 04/09/2014 and analyzed on 04/10/2014.

Nitrate as N was detected in method blank MB 160-116569/23-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Samples NE-B-7 0-0.5 (160-5993-1)[20X], NE-B-7 0-0.5 (160-5993-1)[500X], NE-B-7 5.0-6.5 (160-5993-2)[20X], NE-B-7 10.0-11.5 (160-5993-3)[20X], NE-B-6 10.0-11.5 (160-5993-5)[500X], NE-B-6 5.0-6.5 (160-5993-6)[20X], NE-B-6 5.0-6.5 (160-5993-6)[500X] and NE-B-6 0-0.5 (160-5993-7)[500X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Job ID: 160-5993-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

No other difficulties were encountered during the anions analysis.
All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), NE-B-7 10.0-11.5 (160-5993-3), DD-B-12 5-10 (160-5993-4), NE-B-6 10.0-11.5 (160-5993-5), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 03/25/2014.

No difficulties were encountered during the % solids analysis.
All quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA 900.0. The samples were leached on 03/21/2014, prepared on 03/28/2014 and analyzed on 03/31/2014.

Gross Beta was detected in method blank MB 160-113284/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No other difficulties were encountered during the Gross Alpha/Beta analysis.
All other quality control parameters were within the acceptance limits.

RADIUM-226 BY GAMMA SPEC (21 DAY INGROWTH)

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for Radium-226 by gamma spec (21 day ingrowth) in accordance with EPA 901.1. The samples were leached on 03/21/2014, prepared on 03/25/2014 and analyzed on 04/15/2014 and 04/16/2014.

Cesium-134, Cobalt-57, Cobalt-60, Protactinium-234 and Thorium-227 exceeded the RPD limit for the duplicate of sample NE-B-7 0-0.5DU (160-5993-1).

No other difficulties were encountered during the Gamma spec analysis.
All other quality control parameters were within the acceptance limits.

RADIUM-226 (GFPC)-21 DAY INGROWTH

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for Radium-226 (GFPC)-21 day ingrowth in accordance with EPA 903. The samples were leached on 03/21/2014, prepared on 03/25/2014 and analyzed on 04/17/2014.

No difficulties were encountered during the Radium-226 (GFPC) analysis.
All quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were leached on 03/21/2014, prepared on 03/25/2014 and analyzed on 04/16/2014.

No difficulties were encountered during the Radium-228 analysis.
All quality control parameters were within the acceptance limits.

ISOTOPIC THORIUM (ALPHA SPECTROMETRY)

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for Isotopic Thorium (Alpha Spectrometry) in accordance with DOE A01R_Th. The samples were leached on 03/21/2014, prepared on 03/28/2014 and analyzed on 04/09/2014.

Thorium-230 was detected in method blank MB 160-113328/1-A at a level that was above the method detection limit but below the

Job ID: 160-5993-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the Isotopic Thorium analysis.
All other quality control parameters were within the acceptance limits.

ISOTOPIC URANIUM (ALPHA SPECTROMETRY)

Samples NE-B-7 0-0.5 (160-5993-1), NE-B-7 5.0-6.5 (160-5993-2), NE-B-6 5.0-6.5 (160-5993-6) and NE-B-6 0-0.5 (160-5993-7) were analyzed for Isotopic Uranium (Alpha Spectrometry) in accordance with DOE. The samples were leached on 03/21/2014, prepared on 03/28/2014 and analyzed on 04/09/2014.

Uranium-233/234 was detected in method blank MB 160-113334/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the Isotopic Uranium analysis.
All other quality control parameters were within the acceptance limits.

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	
Company: GEI Consultants, Inc.			
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:		
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104		
Email: abrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 68011884		
Site:	SSOW#:		

COC No: 680-51812-23156.1
Page: Page 1 of 1
Job #:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
NE-B-7 0-0.5	3/20/14	0-0.5 ft	Northeast Property	0410	C/G	S		0	1	1	2	1	0	1	1	1	1	1	1	0	^	0	2x500P, 250G, 4x120G
																						0	60G 4x vial
																						0	
																						0	
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																						0	
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																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Hive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners lab.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3-20-14 1330	GEI	[signature]	3/20/14 1330	TA
[signature]	3/20/14 [illegible]	→	[signature]	3/21/14 0900	TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

5/23/2014

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0185

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	
Company: GEI Consultants, Inc.			
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:		
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104		
Email: abrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 68011884		
Site:	SSOW#:		

COC No: 680-51812-23156.1
Page: Page 1 of 1
Job #:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
NE-B-7 5.0-6.5	3/20/14	5-6.5 ft	Northeast Property	0945	C/G	S		0	1	1	2	1	0	1	1	1	1	1	1	0	^	10	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client / Disposal By Lab / Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners ier.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tom [signature]	3-20-14 13:30	GEI	[signature]	3/20/14 1:22	TB
[signature]	3/20/14 1:00	TB	[signature]	3/21/14 0900	TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information			
Client Contact: Ms. Andrea Brazell	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Company: GEI Consultants, Inc.	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	COC No: 880-51812-23156.1
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:		Page: Page 1 of 1
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		Job #:
State, Zip: GA, 30309			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104		
Email: abrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 68011884		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)
NE-B-7 10.0-11.5	3/20/14	10-11.5 ft	Northeast Property	1005	C/G	S

Analysis Requested

Sample Identification	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
Preservation Codes:			N	N	N	N	N	N	N	N	N	N	N	N	N		
NE-B-7 10.0-11.5		0	0	1	0	0	0	1	0	1	1	1	1	0	0		2x1204, 4oz, 3xvial

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3-20-14 13:30	GEI	[signature]	3/20/14 1730	[illegible]
[signature]	3/20/14 1730	TA	[signature]	3/21/14 0900	TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #:
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	8010C, 8020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
DD-B-12 5-10	3/19/14	5-10	Drainage Ditches	1520	C/G	S		0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	404, 4xVOC

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☒ Hive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners lar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: [signature]	Date/Time: 3-20-14 13:30	Company: GEI	Received by: [signature]	Date/Time: 3/20/14 1330	Company: TA
Relinquished by: [signature]	Date/Time: 3/20/14 7:00	Company: [signature]	Received by: [signature]	Date/Time: 3/21/14 0900	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

5/23/2014

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #:
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:		Analysis Requested	
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify), Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B, 6020, 7470A/B (Hg) - Total Uranium	9315_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Special Instructions/Note:
					Preservation Code:		N	N	0	0	1	0	0	0	1	0	1	1	1	1	0	0	
NE-B-6 10.0-11.5	3/20/14	10-11.5 ft	Northeast Property	0830	C/G	S															2x40g, 60g, 4x vial

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client, Disposal By Lab, Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Tom Pringle	3/20/14 1330	GEI		3/20/14 1330	TA
2		3/20/14 1600	TA		3/21/14 0940	TA
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

5/23/2014

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #:
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	8010C, 8020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8280A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	L	E	N	N		
NE-B-6 5.0-6.5	3/20/14	5-6.5 ft	Northeast Property	0900	C/G	S		0	1	1	2	1	0	1	1	1	1	1	1	0	^	10	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☒ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners lar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: [signature]	Date/Time: 3-20-14 13:30	Company: GEI	Received by: [signature]	Date/Time: 3/20/14 1330	Company: [illegible]
Relinquished by: [signature]	Date/Time: 3/20/14 [illegible]	Company: TK	Received by: [signature]	Date/Time: 3/21/14 0900	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

5/23/2014

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	COC No: 680-51812-23156.1
Company: GEI Consultants, Inc.			Page: Page 1 of 1
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:		Job #:
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104		
Email: abrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 68011884		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code				N	N	N	N	N	N	N	N	F	N	F	N	N		
NE-B-6 0-0.5	3/20/14	0-0.5 ft	Northeast Property	0715	C/G	S		0	1	1	2	1	0	1	1	1	1	1	1	0	^	10	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ■ Hive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3-20-14 13:30	SET	[signature]	3/20/14 1330	TA
[signature]	3/20/14 1600	TA	[signature]	3/21/14 0900	TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 160-5993-1

Login Number: 5993

List Source: TestAmerica St. Louis

List Number: 1

Creator: Barnett, Eddie T

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Containers for PCB/Dioxins received for -4 but not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 160-5993-1

Login Number: 5993
List Number: 321
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento
List Creation: 03/22/14 11:01 AM

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.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
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	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Dioxin

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.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
E	Result exceeded calibration range.

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.
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
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.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
X	Carrier exceeds control limit

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

Method Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SL
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
1668C	Chlorinated Biphenyl Congeners (HRGC/HRMS)	EPA	TAL SAC
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL

Protocol References:

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-5993-1	NE-B-7 0-0.5	Solid	03/20/14 09:10	03/21/14 09:00
160-5993-2	NE-B-7 5.0-6.5	Solid	03/20/14 09:45	03/21/14 09:00
160-5993-3	NE-B-7 10.0-11.5	Solid	03/20/14 10:05	03/21/14 09:00
160-5993-4	DD-B-12 5-10	Solid	03/19/14 15:20	03/21/14 09:00
160-5993-5	NE-B-6 10.0-11.5	Solid	03/20/14 08:30	03/21/14 09:00
160-5993-6	NE-B-6 5.0-6.5	Solid	03/20/14 08:00	03/21/14 09:00
160-5993-7	NE-B-6 0-0.5	Solid	03/20/14 07:15	03/21/14 09:00

Detection Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-7 0-0.5

Lab Sample ID: 160-5993-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1	36		21	0.42	pg/g	1	☼	1668C	Total/NA
PCB-2	31		21	0.42	pg/g	1	☼	1668C	Total/NA
PCB-3	41		21	0.44	pg/g	1	☼	1668C	Total/NA
PCB-4	54		21	4.4	pg/g	1	☼	1668C	Total/NA
PCB-5	5.3	J	21	2.5	pg/g	1	☼	1668C	Total/NA
PCB-6	37		21	2.5	pg/g	1	☼	1668C	Total/NA
PCB-7	3.3	J	21	2.4	pg/g	1	☼	1668C	Total/NA
PCB-8	130		21	2.5	pg/g	1	☼	1668C	Total/NA
PCB-9	13	J	21	2.7	pg/g	1	☼	1668C	Total/NA
PCB-11	37		21	2.6	pg/g	1	☼	1668C	Total/NA
PCB-12/13	53		42	2.7	pg/g	1	☼	1668C	Total/NA
PCB-15	300		21	2.9	pg/g	1	☼	1668C	Total/NA
PCB-16	160		21	1.1	pg/g	1	☼	1668C	Total/NA
PCB-17	110		21	0.75	pg/g	1	☼	1668C	Total/NA
PCB-18/30	180		42	0.63	pg/g	1	☼	1668C	Total/NA
PCB-19	41		21	0.89	pg/g	1	☼	1668C	Total/NA
PCB-20/28	670		42	9.4	pg/g	1	☼	1668C	Total/NA
PCB-21/33	260		42	8.7	pg/g	1	☼	1668C	Total/NA
PCB-22	240		21	10	pg/g	1	☼	1668C	Total/NA
PCB-24	4.1	J	21	0.55	pg/g	1	☼	1668C	Total/NA
PCB-25	31		21	8.8	pg/g	1	☼	1668C	Total/NA
PCB-26/29	71		42	8.8	pg/g	1	☼	1668C	Total/NA
PCB-27	27		21	0.56	pg/g	1	☼	1668C	Total/NA
PCB-31	470		21	8.7	pg/g	1	☼	1668C	Total/NA
PCB-32	88		21	0.43	pg/g	1	☼	1668C	Total/NA
PCB-35	28		21	10	pg/g	1	☼	1668C	Total/NA
PCB-37	460		21	11	pg/g	1	☼	1668C	Total/NA
PCB-40/71	470	B	42	1.6	pg/g	1	☼	1668C	Total/NA
PCB-41	83		21	2.0	pg/g	1	☼	1668C	Total/NA
PCB-42	250		21	1.7	pg/g	1	☼	1668C	Total/NA
PCB-43	28		21	1.8	pg/g	1	☼	1668C	Total/NA
PCB-44/47/65	1300	B	63	1.5	pg/g	1	☼	1668C	Total/NA
PCB-45	110		21	1.7	pg/g	1	☼	1668C	Total/NA
PCB-46	45		21	1.9	pg/g	1	☼	1668C	Total/NA
PCB-48	160		21	1.6	pg/g	1	☼	1668C	Total/NA
PCB-49/69	620		42	1.3	pg/g	1	☼	1668C	Total/NA
PCB-50/53	110		42	1.5	pg/g	1	☼	1668C	Total/NA
PCB-51	27		21	1.5	pg/g	1	☼	1668C	Total/NA
PCB-52	2600	E B	21	1.6	pg/g	1	☼	1668C	Total/NA
PCB-54	2.3	J	21	0.34	pg/g	1	☼	1668C	Total/NA
PCB-56	440		21	9.0	pg/g	1	☼	1668C	Total/NA
PCB-59/62/75	77		63	1.1	pg/g	1	☼	1668C	Total/NA
PCB-60	220		21	8.7	pg/g	1	☼	1668C	Total/NA
PCB-61/70/74/76	2400		84	8.1	pg/g	1	☼	1668C	Total/NA
PCB-63	31		21	7.7	pg/g	1	☼	1668C	Total/NA
PCB-64	550		21	1.1	pg/g	1	☼	1668C	Total/NA
PCB-66	1000		21	9.1	pg/g	1	☼	1668C	Total/NA
PCB-67	21		21	7.6	pg/g	1	☼	1668C	Total/NA
PCB-77	250	G	11	11	pg/g	1	☼	1668C	Total/NA
PCB-79	16	J	21	8.1	pg/g	1	☼	1668C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NE-B-7 0-0.5 (Continued)

Lab Sample ID: 160-5993-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-82	570	G	76	76	pg/g	1	☼	1668C	Total/NA
PCB-83	140	G	83	83	pg/g	1	☼	1668C	Total/NA
PCB-84	1100	G	69	69	pg/g	1	☼	1668C	Total/NA
PCB-85/116/117	740		63	51	pg/g	1	☼	1668C	Total/NA
PCB-86/87/97/108/119/125	2900		130	52	pg/g	1	☼	1668C	Total/NA
PCB-88/91	500	G	58	58	pg/g	1	☼	1668C	Total/NA
PCB-90/101/113	4200		63	53	pg/g	1	☼	1668C	Total/NA
PCB-92	680	G	62	62	pg/g	1	☼	1668C	Total/NA
PCB-107/124	130	G	48	48	pg/g	1	☼	1668C	Total/NA
PCB-95	3300	E G	58	58	pg/g	1	☼	1668C	Total/NA
PCB-96	21		21	0.29	pg/g	1	☼	1668C	Total/NA
PCB-98/102	58	G	55	55	pg/g	1	☼	1668C	Total/NA
PCB-99	2200	E G	61	61	pg/g	1	☼	1668C	Total/NA
PCB-104	1.0	J q	21	0.25	pg/g	1	☼	1668C	Total/NA
PCB-105	2200	E G	59	59	pg/g	1	☼	1668C	Total/NA
PCB-110/115	6000	E G	47	47	pg/g	1	☼	1668C	Total/NA
PCB-109	240	G	45	45	pg/g	1	☼	1668C	Total/NA
PCB-114	90	G	57	57	pg/g	1	☼	1668C	Total/NA
PCB-118	4400	E G	52	52	pg/g	1	☼	1668C	Total/NA
PCB-126	78	G	71	71	pg/g	1	☼	1668C	Total/NA
PCB-128/166	1000		42	14	pg/g	1	☼	1668C	Total/NA
PCB-129/138/163	6500	E	63	15	pg/g	1	☼	1668C	Total/NA
PCB-130	370		21	19	pg/g	1	☼	1668C	Total/NA
PCB-131	67		21	18	pg/g	1	☼	1668C	Total/NA
PCB-132	1800		21	17	pg/g	1	☼	1668C	Total/NA
PCB-133	56		21	17	pg/g	1	☼	1668C	Total/NA
PCB-134/143	230		42	17	pg/g	1	☼	1668C	Total/NA
PCB-135/151	1400		42	15	pg/g	1	☼	1668C	Total/NA
PCB-136	550		21	11	pg/g	1	☼	1668C	Total/NA
PCB-137	300		21	15	pg/g	1	☼	1668C	Total/NA
PCB-139/140	86		42	14	pg/g	1	☼	1668C	Total/NA
PCB-141	1100		21	16	pg/g	1	☼	1668C	Total/NA
PCB-144	220		21	15	pg/g	1	☼	1668C	Total/NA
PCB-146	720		21	16	pg/g	1	☼	1668C	Total/NA
PCB-147/149	3900	B	42	14	pg/g	1	☼	1668C	Total/NA
PCB-153/168	4400	E	42	12	pg/g	1	☼	1668C	Total/NA
PCB-154	33		21	13	pg/g	1	☼	1668C	Total/NA
PCB-156/157	870	G	7.9	7.9	pg/g	1	☼	1668C	Total/NA
PCB-158	680		21	11	pg/g	1	☼	1668C	Total/NA
PCB-159	35		21	6.5	pg/g	1	☼	1668C	Total/NA
PCB-162	41		21	6.2	pg/g	1	☼	1668C	Total/NA
PCB-164	390		21	12	pg/g	1	☼	1668C	Total/NA
PCB-167	290	G	6.0	6.0	pg/g	1	☼	1668C	Total/NA
PCB-169	12	G	8.3	8.3	pg/g	1	☼	1668C	Total/NA
PCB-170	2000		21	6.0	pg/g	1	☼	1668C	Total/NA
PCB-171/173	590		42	5.5	pg/g	1	☼	1668C	Total/NA
PCB-172	320		21	5.7	pg/g	1	☼	1668C	Total/NA
PCB-174	2000		21	5.6	pg/g	1	☼	1668C	Total/NA
PCB-175	82		21	2.2	pg/g	1	☼	1668C	Total/NA
PCB-176	180		21	1.5	pg/g	1	☼	1668C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NE-B-7 0-0.5 (Continued)

Lab Sample ID: 160-5993-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-177	1100		21	5.7	pg/g	1	☼	1668C	Total/NA
PCB-178	300		21	2.3	pg/g	1	☼	1668C	Total/NA
PCB-179	600		21	1.6	pg/g	1	☼	1668C	Total/NA
PCB-180/193	4600	E	42	4.6	pg/g	1	☼	1668C	Total/NA
PCB-182	16	J	21	2.0	pg/g	1	☼	1668C	Total/NA
PCB-183	1000		21	4.2	pg/g	1	☼	1668C	Total/NA
PCB-184	25		21	1.6	pg/g	1	☼	1668C	Total/NA
PCB-185	170		21	5.1	pg/g	1	☼	1668C	Total/NA
PCB-187	1900		21	2.1	pg/g	1	☼	1668C	Total/NA
PCB-188	14	J	21	1.4	pg/g	1	☼	1668C	Total/NA
PCB-189	82		2.1	1.3	pg/g	1	☼	1668C	Total/NA
PCB-190	400		21	4.2	pg/g	1	☼	1668C	Total/NA
PCB-191	95		21	4.1	pg/g	1	☼	1668C	Total/NA
PCB-194	810		21	2.6	pg/g	1	☼	1668C	Total/NA
PCB-195	330		21	2.4	pg/g	1	☼	1668C	Total/NA
PCB-196	550		21	5.2	pg/g	1	☼	1668C	Total/NA
PCB-197	130		21	3.5	pg/g	1	☼	1668C	Total/NA
PCB-198/199	1100		42	5.4	pg/g	1	☼	1668C	Total/NA
PCB-200	120		21	3.5	pg/g	1	☼	1668C	Total/NA
PCB-201	200		21	3.5	pg/g	1	☼	1668C	Total/NA
PCB-202	150		21	3.3	pg/g	1	☼	1668C	Total/NA
PCB-203	670		21	4.8	pg/g	1	☼	1668C	Total/NA
PCB-204	33		21	3.6	pg/g	1	☼	1668C	Total/NA
PCB-205	74		21	2.5	pg/g	1	☼	1668C	Total/NA
PCB-206	1000		21	2.6	pg/g	1	☼	1668C	Total/NA
PCB-207	840		21	1.5	pg/g	1	☼	1668C	Total/NA
PCB-208	510		21	1.6	pg/g	1	☼	1668C	Total/NA
PCB-209	43000	E	21	3.8	pg/g	1	☼	1668C	Total/NA
Total Monochlorobiphenyls	110	J	210	0.43	pg/g	1	☼	1668C	Total/NA
Total Dichlorobiphenyls	630		210	2.8	pg/g	1	☼	1668C	Total/NA
Total Trichlorobiphenyls	2900		210	6.3	pg/g	1	☼	1668C	Total/NA
Total Tetrachlorobiphenyls	11000	B q	210	5.0	pg/g	1	☼	1668C	Total/NA
Total Pentachlorobiphenyls	30000	q	210	53	pg/g	1	☼	1668C	Total/NA
Total Hexachlorobiphenyls	25000	B	210	13	pg/g	1	☼	1668C	Total/NA
Total Heptachlorobiphenyls	16000		210	3.5	pg/g	1	☼	1668C	Total/NA
Total Octachlorobiphenyls	4200		210	3.7	pg/g	1	☼	1668C	Total/NA
Total Nonachlorobiphenyls	2400		210	1.9	pg/g	1	☼	1668C	Total/NA
Polychlorinated biphenyls, Total	130000	B q	210	9.3	pg/g	1	☼	1668C	Total/NA
2,3,7,8-TCDD	1.3		1.0	0.071	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	3.1	J q	5.2	0.16	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	44		5.2	0.30	pg/g	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	24	B	5.2	0.31	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	3.0	J	5.2	0.082	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	7.0		5.2	0.064	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	6.9		5.2	0.061	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	110		5.2	0.29	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	51		5.2	0.23	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDF	6.5		5.2	0.28	pg/g	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	18		5.2	0.26	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	38		5.2	0.18	pg/g	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NE-B-7 0-0.5 (Continued) — Lab Sample ID: 160-5993-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDF	270		5.2	0.37	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	84		5.2	0.44	pg/g	1	☼	8290A	Total/NA
OCDD	230	B	10	0.26	pg/g	1	☼	8290A	Total/NA
OCDF	2500	B	10	0.65	pg/g	1	☼	8290A	Total/NA
2,3,7,8-TCDF - RA	34		1.0	0.30	pg/g	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone - RA	79		21	6.8	ug/Kg	1	☼	8260C	Total/NA
Benzene - RA	0.91	J	5.3	0.26	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RA	13	J	21	2.0	ug/Kg	1	☼	8260C	Total/NA
Toluene - RA	0.74	J	5.3	0.74	ug/Kg	1	☼	8260C	Total/NA
Aluminum	9500		200	42	mg/Kg	10	☼	6010C	Total/NA
Barium	180		49	1.1	mg/Kg	10	☼	6010C	Total/NA
Calcium	26000		2500	66	mg/Kg	10	☼	6010C	Total/NA
Chromium	23		9.8	1.4	mg/Kg	10	☼	6010C	Total/NA
Cobalt	12	J	49	1.4	mg/Kg	10	☼	6010C	Total/NA
Copper	47		25	2.4	mg/Kg	10	☼	6010C	Total/NA
Iron	17000		98	20	mg/Kg	10	☼	6010C	Total/NA
Lead	22		9.8	1.3	mg/Kg	10	☼	6010C	Total/NA
Magnesium	13000		980	31	mg/Kg	10	☼	6010C	Total/NA
Manganese	800		9.8	0.78	mg/Kg	10	☼	6010C	Total/NA
Nickel	24	J	39	1.1	mg/Kg	10	☼	6010C	Total/NA
Potassium	2800	J	4900	710	mg/Kg	10	☼	6010C	Total/NA
Sodium	1300		980	75	mg/Kg	10	☼	6010C	Total/NA
Titanium	930		20	1.3	mg/Kg	10	☼	6010C	Total/NA
Vanadium	45	J	49	5.0	mg/Kg	10	☼	6010C	Total/NA
Zinc	76	B	49	5.5	mg/Kg	10	☼	6010C	Total/NA
Arsenic	4.9		4.5	1.2	mg/Kg	10	☼	6020A	Total/NA
Niobium	3.2	J	11	1.7	mg/Kg	10	☼	6020A	Total/NA
Uranium	0.90		0.45	0.089	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.063		0.034	0.011	mg/Kg	1	☼	7471B	Total/NA
Nitrate as N - DL	17	B	4.2	0.83	mg/Kg	20	☼	300.0	Soluble
Sulfate - DL	540		100	10	mg/Kg	20	☼	300.0	Soluble
Chloride - DL2	5000		1000	100	mg/Kg	500	☼	300.0	Soluble

Client Sample ID: NE-B-7 5.0-6.5 — Lab Sample ID: 160-5993-2

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-11	6.0	J	22	2.0	pg/g	1	☼	1668C	Total/NA
PCB-16	1.1	J	22	0.71	pg/g	1	☼	1668C	Total/NA
PCB-17	0.92	J	22	0.50	pg/g	1	☼	1668C	Total/NA
PCB-18/30	1.7	J	43	0.42	pg/g	1	☼	1668C	Total/NA
PCB-20/28	2.9	J q	43	0.32	pg/g	1	☼	1668C	Total/NA
PCB-21/33	1.1	J q	43	0.30	pg/g	1	☼	1668C	Total/NA
PCB-22	0.86	J q	22	0.34	pg/g	1	☼	1668C	Total/NA
PCB-26/29	0.40	J q	43	0.30	pg/g	1	☼	1668C	Total/NA
PCB-31	2.0	J q	22	0.30	pg/g	1	☼	1668C	Total/NA
PCB-32	0.48	J q	22	0.29	pg/g	1	☼	1668C	Total/NA
PCB-37	1.5	J	22	0.42	pg/g	1	☼	1668C	Total/NA
PCB-40/71	1.4	J B	43	0.28	pg/g	1	☼	1668C	Total/NA
PCB-42	0.41	J q	22	0.31	pg/g	1	☼	1668C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NE-B-7 5.0-6.5 (Continued) **Lab Sample ID: 160-5993-2**

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-44/47/65	5.1	J B	65	0.27	pg/g	1	☼	1668C	Total/NA
PCB-48	0.82	J q	22	0.29	pg/g	1	☼	1668C	Total/NA
PCB-49/69	1.6	J q	43	0.23	pg/g	1	☼	1668C	Total/NA
PCB-52	7.8	J B	22	0.29	pg/g	1	☼	1668C	Total/NA
PCB-56	1.6	J q	22	0.45	pg/g	1	☼	1668C	Total/NA
PCB-61/70/74/76	7.0	J	86	0.40	pg/g	1	☼	1668C	Total/NA
PCB-64	1.6	J q	22	0.19	pg/g	1	☼	1668C	Total/NA
PCB-66	3.0	J q	22	0.45	pg/g	1	☼	1668C	Total/NA
PCB-84	2.8	J	22	0.72	pg/g	1	☼	1668C	Total/NA
PCB-85/116/117	2.2	J	65	0.53	pg/g	1	☼	1668C	Total/NA
PCB-86/87/97/108/119/125	7.2	J q	130	0.55	pg/g	1	☼	1668C	Total/NA
PCB-88/91	1.1	J	43	0.61	pg/g	1	☼	1668C	Total/NA
PCB-90/101/113	12	J	65	0.55	pg/g	1	☼	1668C	Total/NA
PCB-92	1.5	J q	22	0.65	pg/g	1	☼	1668C	Total/NA
PCB-95	7.8	J	22	0.60	pg/g	1	☼	1668C	Total/NA
PCB-99	5.7	J	22	0.64	pg/g	1	☼	1668C	Total/NA
PCB-105	7.5		2.2	0.57	pg/g	1	☼	1668C	Total/NA
PCB-110/115	17	J	43	0.49	pg/g	1	☼	1668C	Total/NA
PCB-118	14		2.2	0.54	pg/g	1	☼	1668C	Total/NA
PCB-128/166	3.3	J	43	0.49	pg/g	1	☼	1668C	Total/NA
PCB-129/138/163	19	J	65	0.52	pg/g	1	☼	1668C	Total/NA
PCB-132	4.0	J q	22	0.59	pg/g	1	☼	1668C	Total/NA
PCB-135/151	3.1	J	43	0.52	pg/g	1	☼	1668C	Total/NA
PCB-136	1.0	J q	22	0.38	pg/g	1	☼	1668C	Total/NA
PCB-146	1.5	J q	22	0.55	pg/g	1	☼	1668C	Total/NA
PCB-147/149	8.0	J B	43	0.51	pg/g	1	☼	1668C	Total/NA
PCB-153/168	11	J	43	0.43	pg/g	1	☼	1668C	Total/NA
PCB-156/157	2.7	J	4.3	0.39	pg/g	1	☼	1668C	Total/NA
PCB-158	1.8	J q	22	0.39	pg/g	1	☼	1668C	Total/NA
PCB-167	0.86	J	2.2	0.31	pg/g	1	☼	1668C	Total/NA
PCB-170	4.2	J	22	0.37	pg/g	1	☼	1668C	Total/NA
PCB-171/173	0.83	J q	43	0.34	pg/g	1	☼	1668C	Total/NA
PCB-172	0.80	J	22	0.35	pg/g	1	☼	1668C	Total/NA
PCB-174	3.2	J	22	0.35	pg/g	1	☼	1668C	Total/NA
PCB-177	1.4	J q	22	0.35	pg/g	1	☼	1668C	Total/NA
PCB-179	0.91	J q	22	0.40	pg/g	1	☼	1668C	Total/NA
PCB-180/193	8.4	J q	43	0.28	pg/g	1	☼	1668C	Total/NA
PCB-183	1.5	J q	22	0.26	pg/g	1	☼	1668C	Total/NA
PCB-187	3.7	J	22	0.53	pg/g	1	☼	1668C	Total/NA
PCB-190	0.46	J q	22	0.26	pg/g	1	☼	1668C	Total/NA
PCB-194	1.9	J	22	0.50	pg/g	1	☼	1668C	Total/NA
PCB-196	1.1	J	22	0.36	pg/g	1	☼	1668C	Total/NA
PCB-198/199	2.1	J	43	0.37	pg/g	1	☼	1668C	Total/NA
PCB-201	0.39	J q	22	0.24	pg/g	1	☼	1668C	Total/NA
PCB-203	1.5	J	22	0.33	pg/g	1	☼	1668C	Total/NA
PCB-206	2.4	J q	22	0.51	pg/g	1	☼	1668C	Total/NA
PCB-207	3.2	J	22	0.36	pg/g	1	☼	1668C	Total/NA
PCB-208	1.9	J	22	0.42	pg/g	1	☼	1668C	Total/NA
PCB-209	240		22	0.51	pg/g	1	☼	1668C	Total/NA
Total Dichlorobiphenyls	6.0	J	220	2.5	pg/g	1	☼	1668C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NE-B-7 5.0-6.5 (Continued)

Lab Sample ID: 160-5993-2

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total Trichlorobiphenyls	13	J q	220	0.37	pg/g	1	☼	1668C	Total/NA
Total Tetrachlorobiphenyls	30	J B q	220	0.35	pg/g	1	☼	1668C	Total/NA
Total Pentachlorobiphenyls	78	J q	220	0.56	pg/g	1	☼	1668C	Total/NA
Total Hexachlorobiphenyls	55	J B q	220	0.47	pg/g	1	☼	1668C	Total/NA
Total Heptachlorobiphenyls	25	J q	220	0.38	pg/g	1	☼	1668C	Total/NA
Total Octachlorobiphenyls	7.0	J q	220	0.33	pg/g	1	☼	1668C	Total/NA
Total Nonachlorobiphenyls	7.5	J q	220	0.43	pg/g	1	☼	1668C	Total/NA
Polychlorinated biphenyls, Total	470	B q	220	0.62	pg/g	1	☼	1668C	Total/NA
2,3,7,8-TCDF	0.25	J	1.1	0.020	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.26	J	5.4	0.032	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.032	J q	5.4	0.024	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.078	J	5.4	0.019	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.11	J	5.4	0.018	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.30	J q	5.4	0.039	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.20	J q	5.4	0.031	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.22	J	5.4	0.043	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	1.3	J	5.4	0.051	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.32	J q	5.4	0.061	pg/g	1	☼	8290A	Total/NA
OCDD	0.83	J q B	11	0.068	pg/g	1	☼	8290A	Total/NA
OCDF	9.8	J B	11	0.12	pg/g	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone - RA	28		21	6.8	ug/Kg	1	☼	8260C	Total/NA
Aluminum	7600		210	45	mg/Kg	10	☼	6010C	Total/NA
Barium	170		53	1.2	mg/Kg	10	☼	6010C	Total/NA
Calcium	31000		2600	71	mg/Kg	10	☼	6010C	Total/NA
Chromium	17		11	1.5	mg/Kg	10	☼	6010C	Total/NA
Cobalt	13	J	53	1.5	mg/Kg	10	☼	6010C	Total/NA
Copper	17	J	26	2.6	mg/Kg	10	☼	6010C	Total/NA
Iron	12000		110	21	mg/Kg	10	☼	6010C	Total/NA
Lead	11		11	1.4	mg/Kg	10	☼	6010C	Total/NA
Magnesium	7300		1100	33	mg/Kg	10	☼	6010C	Total/NA
Manganese	300		11	0.85	mg/Kg	10	☼	6010C	Total/NA
Nickel	20	J	42	1.2	mg/Kg	10	☼	6010C	Total/NA
Potassium	1700	J	5300	770	mg/Kg	10	☼	6010C	Total/NA
Sodium	730	J	1100	81	mg/Kg	10	☼	6010C	Total/NA
Titanium	570		21	1.4	mg/Kg	10	☼	6010C	Total/NA
Vanadium	29	J	53	5.4	mg/Kg	10	☼	6010C	Total/NA
Zinc	50	J B	53	5.9	mg/Kg	10	☼	6010C	Total/NA
Arsenic	5.1	J	5.4	1.4	mg/Kg	10	☼	6020A	Total/NA
Uranium	1.3		0.54	0.11	mg/Kg	10	☼	6020A	Total/NA
Nitrate as N	6.7	B	0.22	0.044	mg/Kg	1	☼	300.0	Soluble
Chloride - DL	770		44	4.4	mg/Kg	20	☼	300.0	Soluble
Sulfate - DL	260		110	11	mg/Kg	20	☼	300.0	Soluble

Client Sample ID: NE-B-7 10.0-11.5

Lab Sample ID: 160-5993-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	7600		190	40	mg/Kg	10	☼	6010C	Total/NA
Barium	170		47	1.0	mg/Kg	10	☼	6010C	Total/NA
Calcium	46000		2300	63	mg/Kg	10	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NE-B-7 10.0-11.5 (Continued)

Lab Sample ID: 160-5993-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	16		9.4	1.3	mg/Kg	10	☼	6010C	Total/NA
Cobalt	11	J	47	1.3	mg/Kg	10	☼	6010C	Total/NA
Copper	18	J	23	2.3	mg/Kg	10	☼	6010C	Total/NA
Iron	11000		94	19	mg/Kg	10	☼	6010C	Total/NA
Lead	11		9.4	1.2	mg/Kg	10	☼	6010C	Total/NA
Magnesium	7400		940	30	mg/Kg	10	☼	6010C	Total/NA
Manganese	270		9.4	0.75	mg/Kg	10	☼	6010C	Total/NA
Nickel	20	J	37	1.1	mg/Kg	10	☼	6010C	Total/NA
Potassium	1300	J	4700	680	mg/Kg	10	☼	6010C	Total/NA
Sodium	770	J	940	71	mg/Kg	10	☼	6010C	Total/NA
Titanium	530		19	1.2	mg/Kg	10	☼	6010C	Total/NA
Vanadium	29	J	47	4.7	mg/Kg	10	☼	6010C	Total/NA
Zinc	48	B	47	5.3	mg/Kg	10	☼	6010C	Total/NA
Arsenic	5.4		5.2	1.3	mg/Kg	10	☼	6020A	Total/NA
Uranium	1.8		0.52	0.10	mg/Kg	10	☼	6020A	Total/NA
Nitrate as N	6.6	B	0.21	0.042	mg/Kg	1	☼	300.0	Soluble
Chloride - DL	350		42	4.2	mg/Kg	20	☼	300.0	Soluble
Sulfate - DL	410		110	11	mg/Kg	20	☼	300.0	Soluble

Client Sample ID: DD-B-12 5-10

Lab Sample ID: 160-5993-4

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-18/30	1.1	J q	44	0.39	pg/g	1	☼	1668C	Total/NA
PCB-20/28	1.9	J q	44	0.35	pg/g	1	☼	1668C	Total/NA
PCB-21/33	0.62	J q	44	0.32	pg/g	1	☼	1668C	Total/NA
PCB-31	1.4	J	22	0.32	pg/g	1	☼	1668C	Total/NA
PCB-40/71	0.66	J B q	44	0.23	pg/g	1	☼	1668C	Total/NA
PCB-42	0.46	J q	22	0.26	pg/g	1	☼	1668C	Total/NA
PCB-44/47/65	2.7	J B	66	0.22	pg/g	1	☼	1668C	Total/NA
PCB-49/69	0.96	J	44	0.19	pg/g	1	☼	1668C	Total/NA
PCB-52	4.5	J B	22	0.24	pg/g	1	☼	1668C	Total/NA
PCB-56	0.70	J q	22	0.36	pg/g	1	☼	1668C	Total/NA
PCB-61/70/74/76	2.5	J q	88	0.32	pg/g	1	☼	1668C	Total/NA
PCB-64	0.75	J q	22	0.16	pg/g	1	☼	1668C	Total/NA
PCB-66	1.3	J q	22	0.36	pg/g	1	☼	1668C	Total/NA
PCB-84	1.1	J q	22	0.54	pg/g	1	☼	1668C	Total/NA
PCB-86/87/97/108/119/125	2.4	J q	130	0.41	pg/g	1	☼	1668C	Total/NA
PCB-90/101/113	7.2	J	66	0.42	pg/g	1	☼	1668C	Total/NA
PCB-92	1.2	J	22	0.49	pg/g	1	☼	1668C	Total/NA
PCB-95	6.7	J	22	0.45	pg/g	1	☼	1668C	Total/NA
PCB-99	1.5	J q	22	0.48	pg/g	1	☼	1668C	Total/NA
PCB-105	2.5		2.2	0.44	pg/g	1	☼	1668C	Total/NA
PCB-110/115	6.6	J	44	0.37	pg/g	1	☼	1668C	Total/NA
PCB-115	6.6	J	44	0.37	pg/g	1	☼	1668C	Total/NA
PCB-118	4.4		2.2	0.41	pg/g	1	☼	1668C	Total/NA
PCB-128/166	1.4	J	44	0.41	pg/g	1	☼	1668C	Total/NA
PCB-129/138/163	16	J	66	0.43	pg/g	1	☼	1668C	Total/NA
PCB-132	4.5	J	22	0.49	pg/g	1	☼	1668C	Total/NA
PCB-135/151	5.7	J	44	0.44	pg/g	1	☼	1668C	Total/NA
PCB-136	1.9	J	22	0.32	pg/g	1	☼	1668C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DD-B-12 5-10 (Continued)

Lab Sample ID: 160-5993-4

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-141	3.4	J q	22	0.46	pg/g	1	☼	1668C	Total/NA
PCB-146	1.7	J	22	0.46	pg/g	1	☼	1668C	Total/NA
PCB-147/149	11	J B q	44	0.43	pg/g	1	☼	1668C	Total/NA
PCB-153/168	14	J	44	0.36	pg/g	1	☼	1668C	Total/NA
PCB-156/157	1.3	J	4.4	0.46	pg/g	1	☼	1668C	Total/NA
PCB-158	1.0	J q	22	0.33	pg/g	1	☼	1668C	Total/NA
PCB-164	0.87	J q	22	0.36	pg/g	1	☼	1668C	Total/NA
PCB-170	7.5	J	22	0.35	pg/g	1	☼	1668C	Total/NA
PCB-171/173	0.72	J q	44	0.32	pg/g	1	☼	1668C	Total/NA
PCB-174	8.2	J	22	0.33	pg/g	1	☼	1668C	Total/NA
PCB-176	0.94	J	22	0.31	pg/g	1	☼	1668C	Total/NA
PCB-177	4.0	J	22	0.33	pg/g	1	☼	1668C	Total/NA
PCB-178	1.2	J	22	0.48	pg/g	1	☼	1668C	Total/NA
PCB-179	2.5	J q	22	0.33	pg/g	1	☼	1668C	Total/NA
PCB-180/193	18	J	44	0.27	pg/g	1	☼	1668C	Total/NA
PCB-183	4.4	J	22	0.24	pg/g	1	☼	1668C	Total/NA
PCB-185	0.49	J q	22	0.29	pg/g	1	☼	1668C	Total/NA
PCB-187	8.2	J	22	0.44	pg/g	1	☼	1668C	Total/NA
PCB-190	1.4	J q	22	0.25	pg/g	1	☼	1668C	Total/NA
PCB-194	2.6	J q	22	0.44	pg/g	1	☼	1668C	Total/NA
PCB-195	0.99	J	22	0.40	pg/g	1	☼	1668C	Total/NA
PCB-196	1.7	J	22	0.46	pg/g	1	☼	1668C	Total/NA
PCB-198/199	2.9	J q	44	0.47	pg/g	1	☼	1668C	Total/NA
PCB-202	0.54	J q	22	0.36	pg/g	1	☼	1668C	Total/NA
PCB-203	2.3	J	22	0.42	pg/g	1	☼	1668C	Total/NA
PCB-206	2.9	J	22	0.47	pg/g	1	☼	1668C	Total/NA
PCB-207	2.1	J	22	0.34	pg/g	1	☼	1668C	Total/NA
PCB-208	1.8	J	22	0.39	pg/g	1	☼	1668C	Total/NA
PCB-209	100		22	0.33	pg/g	1	☼	1668C	Total/NA
Total Trichlorobiphenyls	5.0	J q	220	0.37	pg/g	1	☼	1668C	Total/NA
Total Tetrachlorobiphenyls	15	J B q	220	0.29	pg/g	1	☼	1668C	Total/NA
Total Pentachlorobiphenyls	33	J q	220	0.42	pg/g	1	☼	1668C	Total/NA
Total Hexachlorobiphenyls	64	J B q	220	0.41	pg/g	1	☼	1668C	Total/NA
Total Heptachlorobiphenyls	57	J q	220	0.34	pg/g	1	☼	1668C	Total/NA
Total Octachlorobiphenyls	11	J q	220	0.37	pg/g	1	☼	1668C	Total/NA
Total Nonachlorobiphenyls	6.8	J	220	0.40	pg/g	1	☼	1668C	Total/NA
Polychlorinated biphenyls, Total	290	B q	220	0.63	pg/g	1	☼	1668C	Total/NA
2,3,7,8-TCDF	0.45	J	1.1	0.018	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.19	J q	5.5	0.030	pg/g	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.24	J B	5.5	0.031	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.16	J	5.5	0.019	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.19	J	5.5	0.018	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	1.9	J	5.5	0.048	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.61	J	5.5	0.038	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDF	0.27	J	5.5	0.046	pg/g	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.20	J	5.5	0.043	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.25	J q	5.5	0.029	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	4.0	J	5.5	0.11	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.45	J q	5.5	0.14	pg/g	1	☼	8290A	Total/NA
OCDD	1.4	J q B	11	0.060	pg/g	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DD-B-12 5-10 (Continued) — Lab Sample ID: 160-5993-4

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
OCDF	9.4	J B	11	0.11	pg/g	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone - RA	17	J	24	7.8	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: NE-B-6 10.0-11.5 — Lab Sample ID: 160-5993-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone - RA	29		25	8.0	ug/Kg	1	☼	8260C	Total/NA
Aluminum	7600		190	39	mg/Kg	10	☼	6010C	Total/NA
Barium	100		46	1.0	mg/Kg	10	☼	6010C	Total/NA
Calcium	32000		2300	62	mg/Kg	10	☼	6010C	Total/NA
Chromium	16		9.3	1.3	mg/Kg	10	☼	6010C	Total/NA
Cobalt	10	J	46	1.3	mg/Kg	10	☼	6010C	Total/NA
Copper	13	J	23	2.3	mg/Kg	10	☼	6010C	Total/NA
Iron	11000		93	18	mg/Kg	10	☼	6010C	Total/NA
Lead	11		9.3	1.2	mg/Kg	10	☼	6010C	Total/NA
Magnesium	8600		930	29	mg/Kg	10	☼	6010C	Total/NA
Manganese	250		9.3	0.74	mg/Kg	10	☼	6010C	Total/NA
Nickel	18	J	37	1.1	mg/Kg	10	☼	6010C	Total/NA
Potassium	1700	J	4600	670	mg/Kg	10	☼	6010C	Total/NA
Sodium	920	J	930	71	mg/Kg	10	☼	6010C	Total/NA
Titanium	460		19	1.2	mg/Kg	10	☼	6010C	Total/NA
Vanadium	28	J	46	4.7	mg/Kg	10	☼	6010C	Total/NA
Zinc	43	J B	46	5.2	mg/Kg	10	☼	6010C	Total/NA
Arsenic	5.9		4.9	1.3	mg/Kg	10	☼	6020A	Total/NA
Uranium	1.3		0.49	0.098	mg/Kg	10	☼	6020A	Total/NA
Nitrate as N	9.9	B	0.22	0.044	mg/Kg	1	☼	300.0	Soluble
Sulfate	100		5.4	0.54	mg/Kg	1	☼	300.0	Soluble
Chloride - DL2	8300		1100	110	mg/Kg	500	☼	300.0	Soluble

Client Sample ID: NE-B-6 5.0-6.5 — Lab Sample ID: 160-5993-6

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-11	9.3	J q	21	1.8	pg/g	1	☼	1668C	Total/NA
PCB-20/28	1.2	J	42	0.34	pg/g	1	☼	1668C	Total/NA
PCB-21/33	0.35	J q	42	0.32	pg/g	1	☼	1668C	Total/NA
PCB-31	0.59	J	21	0.32	pg/g	1	☼	1668C	Total/NA
PCB-35	2.2	J	21	0.37	pg/g	1	☼	1668C	Total/NA
PCB-40/71	0.50	J B	42	0.23	pg/g	1	☼	1668C	Total/NA
PCB-44/47/65	0.80	J q B	63	0.22	pg/g	1	☼	1668C	Total/NA
PCB-49/69	0.48	J q	42	0.19	pg/g	1	☼	1668C	Total/NA
PCB-52	1.2	J B	21	0.24	pg/g	1	☼	1668C	Total/NA
PCB-61/70/74/76	1.3	J	85	0.28	pg/g	1	☼	1668C	Total/NA
PCB-64	0.31	J q	21	0.16	pg/g	1	☼	1668C	Total/NA
PCB-66	0.82	J q	21	0.32	pg/g	1	☼	1668C	Total/NA
PCB-90/101/113	0.76	J q	63	0.31	pg/g	1	☼	1668C	Total/NA
PCB-95	0.67	J q	21	0.34	pg/g	1	☼	1668C	Total/NA
PCB-110/115	1.1	J q	42	0.27	pg/g	1	☼	1668C	Total/NA
PCB-115	1.1	J q	42	0.27	pg/g	1	☼	1668C	Total/NA
PCB-118	1.1	J	2.1	0.30	pg/g	1	☼	1668C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NE-B-6 5.0-6.5 (Continued)

Lab Sample ID: 160-5993-6

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-129/138/163	1.4	J	63	0.28	pg/g	1	☼	1668C	Total/NA
PCB-147/149	1.0	J B	42	0.28	pg/g	1	☼	1668C	Total/NA
PCB-153/168	0.87	J q	42	0.24	pg/g	1	☼	1668C	Total/NA
PCB-180/193	0.77	J q	42	0.21	pg/g	1	☼	1668C	Total/NA
PCB-209	7.4	J	21	0.34	pg/g	1	☼	1668C	Total/NA
Total Dichlorobiphenyls	9.3	J q	210	2.1	pg/g	1	☼	1668C	Total/NA
Total Trichlorobiphenyls	4.3	J q	210	0.37	pg/g	1	☼	1668C	Total/NA
Total Tetrachlorobiphenyls	5.4	J q B	210	0.27	pg/g	1	☼	1668C	Total/NA
Total Pentachlorobiphenyls	3.6	J q	210	0.32	pg/g	1	☼	1668C	Total/NA
Total Hexachlorobiphenyls	3.2	J q B	210	0.28	pg/g	1	☼	1668C	Total/NA
Total Heptachlorobiphenyls	0.77	J q	210	0.27	pg/g	1	☼	1668C	Total/NA
Polychlorinated biphenyls, Total	34	J q B	210	0.50	pg/g	1	☼	1668C	Total/NA
2,3,7,8-TCDF	0.071	J	1.1	0.014	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.11	J	5.3	0.021	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.15	J	5.3	0.028	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	2.3	J q	5.3	0.060	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	1.2	J q	5.3	0.046	pg/g	1	☼	8290A	Total/NA
OCDD	54	B	11	0.17	pg/g	1	☼	8290A	Total/NA
OCDF	8.0	J B	11	0.077	pg/g	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone - RA	49		22	7.1	ug/Kg	1	☼	8260C	Total/NA
Benzene - RA	2.1	J	5.5	0.27	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RA	9.5	J	22	2.1	ug/Kg	1	☼	8260C	Total/NA
Aluminum	6700		200	42	mg/Kg	10	☼	6010C	Total/NA
Barium	120		49	1.1	mg/Kg	10	☼	6010C	Total/NA
Calcium	27000		2400	66	mg/Kg	10	☼	6010C	Total/NA
Chromium	14		9.8	1.3	mg/Kg	10	☼	6010C	Total/NA
Cobalt	11	J	49	1.4	mg/Kg	10	☼	6010C	Total/NA
Copper	16	J	24	2.4	mg/Kg	10	☼	6010C	Total/NA
Iron	12000		98	19	mg/Kg	10	☼	6010C	Total/NA
Lead	14		9.8	1.3	mg/Kg	10	☼	6010C	Total/NA
Magnesium	9400		980	31	mg/Kg	10	☼	6010C	Total/NA
Manganese	340		9.8	0.78	mg/Kg	10	☼	6010C	Total/NA
Nickel	18	J	39	1.1	mg/Kg	10	☼	6010C	Total/NA
Potassium	1600	J	4900	710	mg/Kg	10	☼	6010C	Total/NA
Sodium	360	J	980	74	mg/Kg	10	☼	6010C	Total/NA
Titanium	640		20	1.3	mg/Kg	10	☼	6010C	Total/NA
Vanadium	32	J	49	4.9	mg/Kg	10	☼	6010C	Total/NA
Zinc	47	J B	49	5.5	mg/Kg	10	☼	6010C	Total/NA
Arsenic	5.0		5.0	1.3	mg/Kg	10	☼	6020A	Total/NA
Uranium	1.2		0.50	0.10	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.018	J	0.032	0.011	mg/Kg	1	☼	7471B	Total/NA
Nitrate as N	0.62	B	0.21	0.043	mg/Kg	1	☼	300.0	Soluble
Sulfate - DL	690		110	11	mg/Kg	20	☼	300.0	Soluble
Chloride - DL2	9400		1100	110	mg/Kg	500	☼	300.0	Soluble

Client Sample ID: NE-B-6 0-0.5

Lab Sample ID: 160-5993-7

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1	54		21	0.37	pg/g	1	☼	1668C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NE-B-6 0-0.5 (Continued) **Lab Sample ID: 160-5993-7**

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-2	29		21	0.37	pg/g	1	☼	1668C	Total/NA
PCB-3	87		21	0.38	pg/g	1	☼	1668C	Total/NA
PCB-4	25		21	2.8	pg/g	1	☼	1668C	Total/NA
PCB-6	21		21	2.7	pg/g	1	☼	1668C	Total/NA
PCB-7	4.2	J	21	2.6	pg/g	1	☼	1668C	Total/NA
PCB-8	96		21	2.7	pg/g	1	☼	1668C	Total/NA
PCB-9	10	J	21	2.9	pg/g	1	☼	1668C	Total/NA
PCB-11	20	J	21	2.8	pg/g	1	☼	1668C	Total/NA
PCB-12/13	52		43	2.9	pg/g	1	☼	1668C	Total/NA
PCB-15	650		21	3.3	pg/g	1	☼	1668C	Total/NA
PCB-16	13	J	21	0.53	pg/g	1	☼	1668C	Total/NA
PCB-17	12	J	21	0.37	pg/g	1	☼	1668C	Total/NA
PCB-18/30	15	J	43	0.32	pg/g	1	☼	1668C	Total/NA
PCB-19	2.3	J	21	0.46	pg/g	1	☼	1668C	Total/NA
PCB-20/28	760		43	3.6	pg/g	1	☼	1668C	Total/NA
PCB-21/33	46		43	3.4	pg/g	1	☼	1668C	Total/NA
PCB-22	36		21	3.9	pg/g	1	☼	1668C	Total/NA
PCB-24	0.76	J	21	0.27	pg/g	1	☼	1668C	Total/NA
PCB-25	12	J	21	3.4	pg/g	1	☼	1668C	Total/NA
PCB-26/29	11	J	43	3.4	pg/g	1	☼	1668C	Total/NA
PCB-27	1.3	J	21	0.28	pg/g	1	☼	1668C	Total/NA
PCB-31	100		21	3.4	pg/g	1	☼	1668C	Total/NA
PCB-32	5.1	J	21	0.22	pg/g	1	☼	1668C	Total/NA
PCB-35	16	J	21	4.0	pg/g	1	☼	1668C	Total/NA
PCB-37	430		21	4.3	pg/g	1	☼	1668C	Total/NA
PCB-40/71	32	J B	43	0.48	pg/g	1	☼	1668C	Total/NA
PCB-41	7.0	J	21	0.63	pg/g	1	☼	1668C	Total/NA
PCB-42	19	J	21	0.54	pg/g	1	☼	1668C	Total/NA
PCB-44/47/65	220	B	64	0.46	pg/g	1	☼	1668C	Total/NA
PCB-45	4.5	J	21	0.54	pg/g	1	☼	1668C	Total/NA
PCB-48	13	J	21	0.49	pg/g	1	☼	1668C	Total/NA
PCB-49/69	51		43	0.40	pg/g	1	☼	1668C	Total/NA
PCB-50/53	5.6	J	43	0.45	pg/g	1	☼	1668C	Total/NA
PCB-51	3.1	J	21	0.45	pg/g	1	☼	1668C	Total/NA
PCB-52	130	B	21	0.51	pg/g	1	☼	1668C	Total/NA
PCB-56	57		21	3.8	pg/g	1	☼	1668C	Total/NA
PCB-59/62/75	19	J	64	0.36	pg/g	1	☼	1668C	Total/NA
PCB-60	180		21	3.7	pg/g	1	☼	1668C	Total/NA
PCB-61/70/74/76	760		85	3.4	pg/g	1	☼	1668C	Total/NA
PCB-63	8.2	J	21	3.3	pg/g	1	☼	1668C	Total/NA
PCB-64	47		21	0.34	pg/g	1	☼	1668C	Total/NA
PCB-66	810		21	3.9	pg/g	1	☼	1668C	Total/NA
PCB-67	6.5	J	21	3.3	pg/g	1	☼	1668C	Total/NA
PCB-77	170	G	4.2	4.2	pg/g	1	☼	1668C	Total/NA
PCB-81	15	G	4.1	4.1	pg/g	1	☼	1668C	Total/NA
PCB-82	64	G	24	24	pg/g	1	☼	1668C	Total/NA
PCB-84	85	G	22	22	pg/g	1	☼	1668C	Total/NA
PCB-85/116/117	180		64	16	pg/g	1	☼	1668C	Total/NA
PCB-86/87/97/108/119/125	350		130	16	pg/g	1	☼	1668C	Total/NA
PCB-88/91	35	J	43	18	pg/g	1	☼	1668C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NE-B-6 0-0.5 (Continued) **Lab Sample ID: 160-5993-7**

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-90/101/113	430		64	17	pg/g	1	☼	1668C	Total/NA
PCB-92	58		21	19	pg/g	1	☼	1668C	Total/NA
PCB-107/124	26	J	43	15	pg/g	1	☼	1668C	Total/NA
PCB-95	210		21	18	pg/g	1	☼	1668C	Total/NA
PCB-96	1.8	J	21	0.20	pg/g	1	☼	1668C	Total/NA
PCB-99	650		21	19	pg/g	1	☼	1668C	Total/NA
PCB-104	1.8	J	21	0.20	pg/g	1	☼	1668C	Total/NA
PCB-105	690	G	17	17	pg/g	1	☼	1668C	Total/NA
PCB-110/115	680		43	15	pg/g	1	☼	1668C	Total/NA
PCB-109	41		21	14	pg/g	1	☼	1668C	Total/NA
PCB-114	59	G	17	17	pg/g	1	☼	1668C	Total/NA
PCB-115	680		43	15	pg/g	1	☼	1668C	Total/NA
PCB-118	2000	G	16	16	pg/g	1	☼	1668C	Total/NA
PCB-123	54	G	17	17	pg/g	1	☼	1668C	Total/NA
PCB-126	33	G	19	19	pg/g	1	☼	1668C	Total/NA
PCB-128/166	210		43	14	pg/g	1	☼	1668C	Total/NA
PCB-129/138/163	1500		64	14	pg/g	1	☼	1668C	Total/NA
PCB-130	46		21	18	pg/g	1	☼	1668C	Total/NA
PCB-132	190		21	16	pg/g	1	☼	1668C	Total/NA
PCB-134/143	29	J	43	16	pg/g	1	☼	1668C	Total/NA
PCB-135/151	110		43	14	pg/g	1	☼	1668C	Total/NA
PCB-136	36		21	10	pg/g	1	☼	1668C	Total/NA
PCB-137	110		21	14	pg/g	1	☼	1668C	Total/NA
PCB-139/140	30	J	43	14	pg/g	1	☼	1668C	Total/NA
PCB-141	130		21	15	pg/g	1	☼	1668C	Total/NA
PCB-144	24		21	14	pg/g	1	☼	1668C	Total/NA
PCB-146	97		21	15	pg/g	1	☼	1668C	Total/NA
PCB-147/149	350	B	43	14	pg/g	1	☼	1668C	Total/NA
PCB-153/168	2000		43	12	pg/g	1	☼	1668C	Total/NA
PCB-154	19	J	21	12	pg/g	1	☼	1668C	Total/NA
PCB-156/157	440	G	5.4	5.4	pg/g	1	☼	1668C	Total/NA
PCB-158	230		21	11	pg/g	1	☼	1668C	Total/NA
PCB-164	49		21	12	pg/g	1	☼	1668C	Total/NA
PCB-167	240	G	4.2	4.2	pg/g	1	☼	1668C	Total/NA
PCB-170	680		21	2.2	pg/g	1	☼	1668C	Total/NA
PCB-171/173	160		43	2.0	pg/g	1	☼	1668C	Total/NA
PCB-172	70		21	2.1	pg/g	1	☼	1668C	Total/NA
PCB-174	210		21	2.1	pg/g	1	☼	1668C	Total/NA
PCB-175	18	J	21	0.52	pg/g	1	☼	1668C	Total/NA
PCB-176	21		21	0.35	pg/g	1	☼	1668C	Total/NA
PCB-177	110		21	2.1	pg/g	1	☼	1668C	Total/NA
PCB-178	34		21	0.55	pg/g	1	☼	1668C	Total/NA
PCB-179	44		21	0.38	pg/g	1	☼	1668C	Total/NA
PCB-180/193	2800		43	1.7	pg/g	1	☼	1668C	Total/NA
PCB-181	24		21	1.7	pg/g	1	☼	1668C	Total/NA
PCB-182	24		21	0.49	pg/g	1	☼	1668C	Total/NA
PCB-183	420		21	1.5	pg/g	1	☼	1668C	Total/NA
PCB-184	23		21	0.39	pg/g	1	☼	1668C	Total/NA
PCB-185	26		21	1.8	pg/g	1	☼	1668C	Total/NA
PCB-186	2.5	J	21	0.37	pg/g	1	☼	1668C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NE-B-6 0-0.5 (Continued)

Lab Sample ID: 160-5993-7

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-187	240		21	0.50	pg/g	1	☼	1668C	Total/NA
PCB-188	7.6	J	21	0.36	pg/g	1	☼	1668C	Total/NA
PCB-189	99		2.1	0.78	pg/g	1	☼	1668C	Total/NA
PCB-190	220		21	1.5	pg/g	1	☼	1668C	Total/NA
PCB-191	78		21	1.5	pg/g	1	☼	1668C	Total/NA
PCB-194	1600		21	1.9	pg/g	1	☼	1668C	Total/NA
PCB-195	170		21	1.8	pg/g	1	☼	1668C	Total/NA
PCB-196	500		21	1.7	pg/g	1	☼	1668C	Total/NA
PCB-197	66		21	1.1	pg/g	1	☼	1668C	Total/NA
PCB-198/199	310		43	1.8	pg/g	1	☼	1668C	Total/NA
PCB-200	41		21	1.2	pg/g	1	☼	1668C	Total/NA
PCB-201	46		21	1.1	pg/g	1	☼	1668C	Total/NA
PCB-202	30		21	1.2	pg/g	1	☼	1668C	Total/NA
PCB-203	1100		21	1.6	pg/g	1	☼	1668C	Total/NA
PCB-204	41		21	1.2	pg/g	1	☼	1668C	Total/NA
PCB-205	110		21	1.5	pg/g	1	☼	1668C	Total/NA
PCB-206	4600	E	21	2.1	pg/g	1	☼	1668C	Total/NA
PCB-207	510		21	1.4	pg/g	1	☼	1668C	Total/NA
PCB-208	310		21	1.6	pg/g	1	☼	1668C	Total/NA
PCB-209	26000	E	21	2.5	pg/g	1	☼	1668C	Total/NA
Total Monochlorobiphenyls	170	J	210	0.38	pg/g	1	☼	1668C	Total/NA
Total Dichlorobiphenyls	880		210	2.7	pg/g	1	☼	1668C	Total/NA
Total Trichlorobiphenyls	1500		210	2.5	pg/g	1	☼	1668C	Total/NA
Total Tetrachlorobiphenyls	2600	B	210	2.0	pg/g	1	☼	1668C	Total/NA
Total Pentachlorobiphenyls	5600		210	16	pg/g	1	☼	1668C	Total/NA
Total Hexachlorobiphenyls	5800	B	210	12	pg/g	1	☼	1668C	Total/NA
Total Heptachlorobiphenyls	5300		210	1.2	pg/g	1	☼	1668C	Total/NA
Total Octachlorobiphenyls	4000		210	1.5	pg/g	1	☼	1668C	Total/NA
Total Nonachlorobiphenyls	5400		210	1.7	pg/g	1	☼	1668C	Total/NA
Polychlorinated biphenyls, Total	57000	B	210	4.3	pg/g	1	☼	1668C	Total/NA
2,3,7,8-TCDD	0.29	J q	1.1	0.029	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.53	J	5.3	0.057	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	31		5.3	0.080	pg/g	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	20	B	5.3	0.082	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.27	J q	5.3	0.053	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.68	J q	5.3	0.041	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	1.1	J	5.3	0.039	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	100		5.3	0.22	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	29		5.3	0.18	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDF	3.6	J	5.3	0.22	pg/g	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	10		5.3	0.20	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	8.9		5.3	0.099	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	140		5.3	0.22	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	39		5.3	0.27	pg/g	1	☼	8290A	Total/NA
OCDD	73	B	11	0.17	pg/g	1	☼	8290A	Total/NA
OCDF	670	B	11	0.38	pg/g	1	☼	8290A	Total/NA
2,3,7,8-TCDF - RA	15		1.1	0.19	pg/g	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone - RA	67		19	6.1	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RA	16	J	19	1.8	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NE-B-6 0-0.5 (Continued)

Lab Sample ID: 160-5993-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Hexanone - RA	4.7	J	19	1.7	ug/Kg	1	☼	8260C	Total/NA
Naphthalene - RA	4.4	J	4.7	0.46	ug/Kg	1	☼	8260C	Total/NA
Anthracene	460		350	35	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1300		350	35	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1600		350	35	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	670		350	35	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	280	J	350	35	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	680		350	35	ug/Kg	1	☼	8270D	Total/NA
Chrysene	2100		350	35	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	3900		350	35	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	320	J	350	35	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	2600		350	35	ug/Kg	1	☼	8270D	Total/NA
Pyrene	3300		350	35	ug/Kg	1	☼	8270D	Total/NA
Aluminum	7700		200	43	mg/Kg	10	☼	6010C	Total/NA
Barium	130		51	1.1	mg/Kg	10	☼	6010C	Total/NA
Calcium	32000		2500	68	mg/Kg	10	☼	6010C	Total/NA
Chromium	17		10	1.4	mg/Kg	10	☼	6010C	Total/NA
Cobalt	11	J	51	1.5	mg/Kg	10	☼	6010C	Total/NA
Copper	20	J	25	2.5	mg/Kg	10	☼	6010C	Total/NA
Iron	12000		100	20	mg/Kg	10	☼	6010C	Total/NA
Lead	14		10	1.3	mg/Kg	10	☼	6010C	Total/NA
Magnesium	15000		1000	32	mg/Kg	10	☼	6010C	Total/NA
Manganese	420		10	0.81	mg/Kg	10	☼	6010C	Total/NA
Nickel	18	J	41	1.2	mg/Kg	10	☼	6010C	Total/NA
Potassium	1600	J	5100	730	mg/Kg	10	☼	6010C	Total/NA
Sodium	680	J	1000	77	mg/Kg	10	☼	6010C	Total/NA
Titanium	660		20	1.3	mg/Kg	10	☼	6010C	Total/NA
Vanadium	31	J	51	5.1	mg/Kg	10	☼	6010C	Total/NA
Zinc	54	B	51	5.7	mg/Kg	10	☼	6010C	Total/NA
Arsenic	5.8		5.1	1.3	mg/Kg	10	☼	6020A	Total/NA
Niobium	3.0	J	13	1.9	mg/Kg	10	☼	6020A	Total/NA
Uranium	1.7		0.51	0.10	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.012	J	0.032	0.011	mg/Kg	1	☼	7471B	Total/NA
Nitrate as N	6.2	B	0.21	0.043	mg/Kg	1	☼	300.0	Soluble
Sulfate	170		5.4	0.54	mg/Kg	1	☼	300.0	Soluble
Chloride - DL2	22000		1100	110	mg/Kg	500	☼	300.0	Soluble

This Detection Summary does not include radiochemical test results.

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-7 0-0.5
Date Collected: 03/20/14 09:10
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-1
Matrix: Solid
Percent Solids: 95.4

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**79**		21	6.8	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Acetonitrile	21	U *	53	21	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Benzene	**0.91**	**J**	5.3	0.26	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Bromobenzene	0.39	U *	5.3	0.39	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Bromodichloromethane	0.26	U	5.3	0.26	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Bromoform	0.39	U *	5.3	0.39	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Bromomethane	1.2	U *	11	1.2	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
2-Butanone (MEK)	**13**	**J**	21	2.0	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Carbon disulfide	0.73	U	5.3	0.73	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Carbon tetrachloride	0.54	U	5.3	0.54	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Chlorobenzene	0.40	U	5.3	0.40	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Chlorobromomethane	0.86	U	5.3	0.86	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Chloroethane	0.55	U	11	0.55	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Chloroform	0.40	U	5.3	0.40	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Chloromethane	0.68	U	11	0.68	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
2-Chlorotoluene	0.36	U *	5.3	0.36	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
4-Chlorotoluene	0.40	U *	5.3	0.40	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
cis-1,2-Dichloroethene	0.63	U	5.3	0.63	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
cis-1,3-Dichloropropene	0.63	U	5.3	0.63	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Cymene	0.34	U *	5.3	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Dibromochloromethane	0.43	U	5.3	0.43	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Dibromomethane	1.0	U	5.3	1.0	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,2-Dichlorobenzene	0.29	U *	5.3	0.29	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,3-Dichlorobenzene	0.29	U *	5.3	0.29	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,4-Dichlorobenzene	0.63	U *	5.3	0.63	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Dichlorodifluoromethane	1.4	U	11	1.4	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,1-Dichloroethane	0.41	U	5.3	0.41	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,2-Dichloroethane	0.92	U	5.3	0.92	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,1-Dichloroethene	1.7	U	5.3	1.7	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,2-Dichloropropane	0.40	U	5.3	0.40	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,3-Dichloropropane	0.34	U	5.3	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
2,2-Dichloropropane	0.57	U	5.3	0.57	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,1-Dichloropropene	0.32	U	5.3	0.32	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Ethanol	65	U *	260	65	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Ethylbenzene	0.32	U	5.3	0.32	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
2-Hexanone	1.9	U	21	1.9	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Isopropylbenzene	0.27	U *	5.3	0.27	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Methylene Chloride	1.7	U	5.3	1.7	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Methyl iodide	1.6	U	5.3	1.6	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
4-Methyl-2-pentanone (MIBK)	0.77	U	21	0.77	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Methyl tert-butyl ether	0.51	U	5.3	0.51	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
m-Xylene & p-Xylene	0.60	U	5.3	0.60	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Naphthalene	0.52	U *	5.3	0.52	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
n-Butylbenzene	0.63	U *	5.3	0.63	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
N-Propylbenzene	0.34	U *	5.3	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
o-Xylene	0.36	U	5.3	0.36	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
sec-Butylbenzene	0.33	U *	5.3	0.33	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Styrene	0.37	U	5.3	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
tert-Butylbenzene	0.33	U *	5.3	0.33	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1

Client Sample ID: NE-B-7 0-0.5
Date Collected: 03/20/14 09:10
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-1
Matrix: Solid
Percent Solids: 95.4

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.37	U	5.3	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,1,2,2-Tetrachloroethane	0.42	U *	5.3	0.42	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Tetrachloroethene	0.34	U	5.3	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Toluene	**0.74**	**J**	5.3	0.74	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
trans-1,2-Dichloroethene	0.99	U	5.3	0.99	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
trans-1,3-Dichloropropene	0.37	U	5.3	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,2,3-Trichlorobenzene	0.46	U *	5.3	0.46	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,2,4-Trichlorobenzene	0.45	U *	5.3	0.45	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,1,1-Trichloroethane	0.45	U	5.3	0.45	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,1,2-Trichloroethane	0.60	U	5.3	0.60	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Trichloroethene	0.41	U	5.3	0.41	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Trichlorofluoromethane	0.53	U	5.3	0.53	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,2,3-Trichloropropane	0.59	U *	5.3	0.59	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,2,4-Trimethylbenzene	0.63	U *	5.3	0.63	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
1,3,5-Trimethylbenzene	0.33	U *	5.3	0.33	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Vinyl acetate	0.82	U	5.3	0.82	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Vinyl chloride	0.45	U	5.3	0.45	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1
Xylenes, Total	0.89	U	11	0.89	ug/Kg	☼	03/24/14 16:13	03/24/14 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*149*	*	*63 - 150*	*03/24/14 16:13*	*03/24/14 19:38*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 126*	*03/24/14 16:13*	*03/24/14 19:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*72 - 127*	*03/24/14 16:13*	*03/24/14 19:38*	*1*
Toluene-d8 (Surr)	*115*		*80 - 120*	*03/24/14 16:13*	*03/24/14 19:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Acenaphthylene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Anthracene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Benzo[a]anthracene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Benzo[b]fluoranthene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Benzo[k]fluoranthene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Benzo[g,h,i]perylene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Benzo[a]pyrene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Chrysene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Dibenz(a,h)anthracene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Fluoranthene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Fluorene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Indeno[1,2,3-cd]pyrene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Naphthalene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Phenanthrene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1
Pyrene	35	U	340	35	ug/Kg	☼	03/24/14 08:33	03/27/14 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*85*		*53 - 97*	*03/24/14 08:33*	*03/27/14 18:15*	*1*
2,4,6-Tribromophenol (Surr)	*97*		*46 - 111*	*03/24/14 08:33*	*03/27/14 18:15*	*1*
Nitrobenzene-d5 (Surr)	*86*		*55 - 98*	*03/24/14 08:33*	*03/27/14 18:15*	*1*
Phenol-d5 (Surr)	*80*		*54 - 101*	*03/24/14 08:33*	*03/27/14 18:15*	*1*
Terphenyl-d14 (Surr)	*90*		*58 - 123*	*03/24/14 08:33*	*03/27/14 18:15*	*1*

Client Sample ID: NE-B-7 0-0.5
Date Collected: 03/20/14 09:10
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-1
Matrix: Solid
Percent Solids: 95.4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	97		56 - 97	03/24/14 08:33	03/27/14 18:15	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	36		21	0.42	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-2	31		21	0.42	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-3	41		21	0.44	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-4	54		21	4.4	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-5	5.3	J	21	2.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-6	37		21	2.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-7	3.3	J	21	2.4	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-8	130		21	2.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-9	13	J	21	2.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-10	3.0	U	21	3.0	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-11	37		21	2.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-12/13	53		42	2.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-14	2.2	U	21	2.2	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-15	300		21	2.9	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-16	160		21	1.1	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-17	110		21	0.75	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-18/30	180		42	0.63	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-19	41		21	0.89	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-20/28	670		42	9.4	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-21/33	260		42	8.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-22	240		21	10	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-23	8.5	U	21	8.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-24	4.1	J	21	0.55	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-25	31		21	8.8	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-26/29	71		42	8.8	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-27	27		21	0.56	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-31	470		21	8.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-32	88		21	0.43	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-34	8.8	U	21	8.8	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-35	28		21	10	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-36	9.0	U	21	9.0	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-37	460		21	11	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-38	9.6	U	21	9.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-39	9.1	U	21	9.1	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-40/71	470	B	42	1.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-41	83		21	2.0	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-42	250		21	1.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-43	28		21	1.8	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-44/47/65	1300	B	63	1.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-45	110		21	1.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-46	45		21	1.9	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-48	160		21	1.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-49/69	620		42	1.3	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-50/53	110		42	1.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-51	27		21	1.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-7 0-0.5
Date Collected: 03/20/14 09:10
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-1
Matrix: Solid
Percent Solids: 95.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-52	2600	E B	21	1.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-54	2.3	J	21	0.34	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-55	8.3	U q	21	8.3	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-56	440		21	9.0	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-57	8.2	U	21	8.2	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-58	8.2	U	21	8.2	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-59/62/75	77		63	1.1	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-60	220		21	8.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-61/70/74/76	2400		84	8.1	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-63	31		21	7.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-64	550		21	1.1	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-66	1000		21	9.1	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-67	21		21	7.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-68	7.3	U	21	7.3	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-72	7.9	U	21	7.9	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-73	1.2	U	21	1.2	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-77	250	G	11	11	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-78	9.3	U	21	9.3	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-79	16	J	21	8.1	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-80	7.7	U	21	7.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-81	11	U G	11	11	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-82	570	G	76	76	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-83	140	G	83	83	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-84	1100	G	69	69	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-85/116/117	740		63	51	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-86/87/97/108/119/125	2900		130	52	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-88/91	500	G	58	58	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-89	65	U G	65	65	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-90/101/113	4200		63	53	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-92	680	G	62	62	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-93/100	59	U G	59	59	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-107/124	130	G	48	48	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-94	62	U G	62	62	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-95	3300	E G	58	58	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-96	21		21	0.29	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-98/102	58	G	55	55	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-99	2200	E G	61	61	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-103	54	U G	54	54	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-104	1.0	J q	21	0.25	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-105	2200	E G	59	59	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-106	53	U G	53	53	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-110/115	6000	E G	47	47	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-109	240	G	45	45	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-111	43	U G	43	43	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-112	41	U G	41	41	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-114	90	G	57	57	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-118	4400	E G	52	52	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-120	45	U G	45	45	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-121	43	U G	43	43	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-7 0-0.5
Date Collected: 03/20/14 09:10
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-1
Matrix: Solid
Percent Solids: 95.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-122	54	U G	54	54	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-123	52	U G	52	52	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-126	**78**	**G**	71	71	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-127	52	U G	52	52	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-128/166	**1000**		42	14	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-129/138/163	**6500**	**E**	63	15	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-130	**370**		21	19	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-131	**67**		21	18	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-132	**1800**		21	17	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-133	**56**		21	17	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-134/143	**230**		42	17	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-135/151	**1400**		42	15	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-136	**550**		21	11	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-137	**300**		21	15	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-139/140	**86**		42	14	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-141	**1100**		21	16	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-142	16	U	21	16	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-144	**220**		21	15	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-145	10	U	21	10	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-146	**720**		21	16	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-147/149	**3900**	**B**	42	14	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-148	14	U	21	14	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-150	9.7	U	21	9.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-152	10	U	21	10	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-153/168	**4400**	**E**	42	12	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-154	**33**		21	13	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-155	10	U	21	10	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-156/157	**870**	**G**	7.9	7.9	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-158	**680**		21	11	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-159	**35**		21	6.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-160	13	U	21	13	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-161	11	U	21	11	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-162	**41**		21	6.2	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-164	**390**		21	12	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-165	13	U	21	13	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-167	**290**	**G**	6.0	6.0	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-169	**12**	**G**	8.3	8.3	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-170	**2000**		21	6.0	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-171/173	**590**		42	5.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-172	**320**		21	5.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-174	**2000**		21	5.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-175	**82**		21	2.2	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-176	**180**		21	1.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-177	**1100**		21	5.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-178	**300**		21	2.3	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-179	**600**		21	1.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-180/193	**4600**	**E**	42	4.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-181	4.7	U	21	4.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-182	**16**	**J**	21	2.0	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1

Client Sample ID: NE-B-7 0-0.5
Date Collected: 03/20/14 09:10
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-1
Matrix: Solid
Percent Solids: 95.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-183	1000		21	4.2	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-184	25		21	1.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-185	170		21	5.1	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-186	1.5	U	21	1.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-187	1900		21	2.1	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-188	14	J	21	1.4	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-189	82		2.1	1.3	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-190	400		21	4.2	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-191	95		21	4.1	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-192	4.3	U	21	4.3	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-194	810		21	2.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-195	330		21	2.4	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-196	550		21	5.2	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-197	130		21	3.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-198/199	1100		42	5.4	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-200	120		21	3.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-201	200		21	3.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-202	150		21	3.3	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-203	670		21	4.8	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-204	33		21	3.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-205	74		21	2.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-206	1000		21	2.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-207	840		21	1.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-208	510		21	1.6	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
PCB-209	43000	E	21	3.8	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
Total Monochlorobiphenyls	110	J	210	0.43	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
Total Dichlorobiphenyls	630		210	2.8	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
Total Trichlorobiphenyls	2900		210	6.3	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
Total Tetrachlorobiphenyls	11000	B q	210	5.0	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
Total Pentachlorobiphenyls	30000	q	210	53	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
Total Hexachlorobiphenyls	25000	B	210	13	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
Total Heptachlorobiphenyls	16000		210	3.5	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
Total Octachlorobiphenyls	4200		210	3.7	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
Total Nonachlorobiphenyls	2400		210	1.9	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1
Polychlorinated biphenyls, Total	130000	B q	210	9.3	pg/g	☼	03/24/14 14:13	04/12/14 10:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*52*		*5 - 145*	*03/24/14 14:13*	*04/12/14 10:49*	*1*
PCB-15L	*49*	*q*	*5 - 145*	*03/24/14 14:13*	*04/12/14 10:49*	*1*
PCB-123L	*59*		*10 - 145*	*03/24/14 14:13*	*04/12/14 10:49*	*1*
PCB-114L	*57*		*10 - 145*	*03/24/14 14:13*	*04/12/14 10:49*	*1*
PCB-202L	*85*		*10 - 145*	*03/24/14 14:13*	*04/12/14 10:49*	*1*
PCB-3L	*54*		*5 - 145*	*03/24/14 14:13*	*04/12/14 10:49*	*1*
PCB-118L	*58*		*10 - 145*	*03/24/14 14:13*	*04/12/14 10:49*	*1*
PCB-126L	*56*		*10 - 145*	*03/24/14 14:13*	*04/12/14 10:49*	*1*
PCB-206L	*51*		*10 - 145*	*03/24/14 14:13*	*04/12/14 10:49*	*1*
PCB-169L	*61*		*10 - 145*	*03/24/14 14:13*	*04/12/14 10:49*	*1*
PCB-37L	*53*		*5 - 145*	*03/24/14 14:13*	*04/12/14 10:49*	*1*
PCB-19L	*53*		*5 - 145*	*03/24/14 14:13*	*04/12/14 10:49*	*1*
PCB-188L	*91*		*10 - 145*	*03/24/14 14:13*	*04/12/14 10:49*	*1*

Client Sample ID: NE-B-7 0-0.5
Date Collected: 03/20/14 09:10
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-1
Matrix: Solid
Percent Solids: 95.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-54L	48		5 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-156L/157L	62		10 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-167L	60		10 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-209L	46		10 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-189L	63		10 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-105L	57		10 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-208L	72		10 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-1L	46		5 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-104L	55		10 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-81L	52		10 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-77L	52		10 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-205L	53		10 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-155L	55		10 - 145	03/24/14 14:13	04/12/14 10:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	71		5 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-111L	96		10 - 145	03/24/14 14:13	04/12/14 10:49	1
PCB-178L	107		10 - 145	03/24/14 14:13	04/12/14 10:49	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.3		1.0	0.071	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
1,2,3,7,8-PeCDD	3.1	J q	5.2	0.16	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
1,2,3,7,8-PeCDF	44		5.2	0.30	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
2,3,4,7,8-PeCDF	24	B	5.2	0.31	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
1,2,3,4,7,8-HxCDD	3.0	J	5.2	0.082	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
1,2,3,6,7,8-HxCDD	7.0		5.2	0.064	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
1,2,3,7,8,9-HxCDD	6.9		5.2	0.061	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
1,2,3,4,7,8-HxCDF	110		5.2	0.29	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
1,2,3,6,7,8-HxCDF	51		5.2	0.23	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
1,2,3,7,8,9-HxCDF	6.5		5.2	0.28	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
2,3,4,6,7,8-HxCDF	18		5.2	0.26	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
1,2,3,4,6,7,8-HpCDD	38		5.2	0.18	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
1,2,3,4,6,7,8-HpCDF	270		5.2	0.37	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
1,2,3,4,7,8,9-HpCDF	84		5.2	0.44	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
OCDD	230	B	10	0.26	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1
OCDF	2500	B	10	0.65	pg/g	☼	03/24/14 11:21	04/12/14 04:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	81		40 - 135	03/24/14 11:21	04/12/14 04:58	1
13C-2,3,7,8-TCDD	77		40 - 135	03/24/14 11:21	04/12/14 04:58	1
13C-1,2,3,7,8-PeCDD	77		40 - 135	03/24/14 11:21	04/12/14 04:58	1
13C-1,2,3,4,6,7,8-HpCDF	82		40 - 135	03/24/14 11:21	04/12/14 04:58	1
13C-1,2,3,7,8-PeCDF	75		40 - 135	03/24/14 11:21	04/12/14 04:58	1
13C-1,2,3,4,6,7,8-HpCDD	86		40 - 135	03/24/14 11:21	04/12/14 04:58	1
13C-OCDD	77		40 - 135	03/24/14 11:21	04/12/14 04:58	1
13C-1,2,3,4,7,8-HxCDF	79		40 - 135	03/24/14 11:21	04/12/14 04:58	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	34		1.0	0.30	pg/g	☼	03/24/14 11:21	04/15/14 20:15	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-7 0-0.5
Date Collected: 03/20/14 09:10
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-1
Matrix: Solid
Percent Solids: 95.4

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	69		40 - 135	03/24/14 11:21	04/15/14 20:15	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9500		200	42	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Antimony	3.0	U	9.8	3.0	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Barium	180		49	1.1	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Beryllium	0.74	U	4.9	0.74	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Cadmium	0.33	U	4.9	0.33	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Calcium	26000		2500	66	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Chromium	23		9.8	1.4	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Cobalt	12	J	49	1.4	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Copper	47		25	2.4	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Iron	17000		98	20	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Lead	22		9.8	1.3	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Magnesium	13000		980	31	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Manganese	800		9.8	0.78	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Nickel	24	J	39	1.1	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Potassium	2800	J	4900	710	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Selenium	2.0	U	15	2.0	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Silver	0.69	U	9.8	0.69	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Sodium	1300		980	75	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Titanium	930		20	1.3	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Vanadium	45	J	49	5.0	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10
Zinc	76	B	49	5.5	mg/Kg	☼	03/24/14 08:27	04/09/14 15:45	10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9		4.5	1.2	mg/Kg	☼	03/24/14 08:30	04/09/14 21:37	10
Niobium	3.2	J	11	1.7	mg/Kg	☼	03/24/14 08:30	04/09/14 21:37	10
Thallium	0.68	U	2.2	0.68	mg/Kg	☼	03/24/14 08:30	04/09/14 21:37	10
Uranium	0.90		0.45	0.089	mg/Kg	☼	03/24/14 08:30	04/09/14 21:37	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.034	0.011	mg/Kg	☼	03/31/14 11:30	04/01/14 09:07	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	17	B	4.2	0.83	mg/Kg	☼		04/10/14 06:41	20
Sulfate	540		100	10	mg/Kg	☼		04/10/14 06:41	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5000		1000	100	mg/Kg	☼		04/10/14 06:55	500

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	29.3		6.56	7.37	10.0	5.38	pCi/g	03/28/14 09:21	03/31/14 11:37	1
Gross Beta	29.2		3.76	4.76	10.0	3.34	pCi/g	03/28/14 09:21	03/31/14 11:37	1

TestAmerica St. Louis

Client Sample ID: NE-B-7 0-0.5
Date Collected: 03/20/14 09:10
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-1
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium 228	**1.72**		0.280	0.330		0.173	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Bismuth-212	**1.97**		0.741	0.769		0.693	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Bismuth-214	**1.18**		0.161	0.202		0.100	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Bismuth-210M	0.0327	U	0.0475	0.0476		0.0720	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Cesium-134	0.0372	U	0.0361	0.0363		0.250	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Cesium-137	0.0369	U	0.0427	0.0429		0.0697	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Cobalt-57	0.0381	U	0.0345	0.0347		0.0461	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Cobalt-60	0.00216	U	0.0143	0.0143		0.0823	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Lead-212	**1.63**		0.137	0.252		0.113	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Lead-214	**1.25**		0.150	0.198		0.150	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Potassium-40	**21.5**		1.74	2.80		0.602	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Protactinium-231	0.798	U	0.457	0.465		2.19	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Protactinium-234	-0.0114	U	0.0237	0.0237		0.327	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Radium-224	1.18	U	1.23	1.24		2.01	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Thallium-208	**0.464**		0.0844	0.0972		0.0627	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Thorium-227	0.457	U	0.557	0.560		0.917	pCi/g	03/25/14 17:06	04/16/14 20:40	1
Thorium-234	**1.30**		0.493	0.512		1.27	pCi/g	03/25/14 17:06	04/16/14 20:40	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.17**		0.221	0.245	1.00	0.146	pCi/g	03/25/14 12:45	04/17/14 06:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*111*	*X*	*40 - 110*	*03/25/14 12:45*	*04/17/14 06:52*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.08**		0.260	0.278	1.00	0.300	pCi/g	03/25/14 12:54	04/16/14 11:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*111*	*X*	*40 - 110*	*03/25/14 12:54*	*04/16/14 11:13*	*1*
Y Carrier	*87.1*		*40 - 110*	*03/25/14 12:54*	*04/16/14 11:13*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**1.70**		0.289	0.322	1.00	0.0924	pCi/g	03/28/14 12:40	04/09/14 01:27	1
Thorium-230	**1.45**		0.265	0.292	1.00	0.0363	pCi/g	03/28/14 12:40	04/09/14 01:27	1
Thorium-232	**1.80**		0.294	0.331	1.00	0.0361	pCi/g	03/28/14 12:40	04/09/14 01:27	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*77.8*		*30 - 110*	*03/28/14 12:40*	*04/09/14 01:27*	*1*

Client Sample ID: NE-B-7 0-0.5

Lab Sample ID: 160-5993-1

Date Collected: 03/20/14 09:10

Matrix: Solid

Date Received: 03/21/14 09:00

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.920**		0.214	0.228	1.00	0.0567	pCi/g	03/28/14 12:40	04/09/14 21:51	1
Uranium-235/236	-0.00291	U	0.00581	0.00582	1.00	0.0706	pCi/g	03/28/14 12:40	04/09/14 21:51	1
Uranium-238	**0.995**		0.222	0.238	1.00	0.0373	pCi/g	03/28/14 12:40	04/09/14 21:51	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*74.0*		*30 - 110*	*03/28/14 12:40*	*04/09/14 21:51*	*1*

Client Sample ID: NE-B-7 5.0-6.5

Lab Sample ID: 160-5993-2

Date Collected: 03/20/14 09:45

Matrix: Solid

Date Received: 03/21/14 09:00

Percent Solids: 92.3

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**28**		21	6.8	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Acetonitrile	21	U *	53	21	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Benzene	0.26	U	5.3	0.26	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Bromobenzene	0.39	U	5.3	0.39	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Bromodichloromethane	0.26	U	5.3	0.26	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Bromoform	0.39	U	5.3	0.39	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Bromomethane	1.2	U *	11	1.2	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
2-Butanone (MEK)	2.0	U	21	2.0	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Carbon disulfide	0.73	U	5.3	0.73	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Carbon tetrachloride	0.54	U	5.3	0.54	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Chlorobenzene	0.40	U	5.3	0.40	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Chlorobromomethane	0.86	U	5.3	0.86	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Chloroethane	0.55	U	11	0.55	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Chloroform	0.40	U	5.3	0.40	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Chloromethane	0.68	U	11	0.68	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
2-Chlorotoluene	0.36	U	5.3	0.36	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
4-Chlorotoluene	0.40	U	5.3	0.40	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
cis-1,2-Dichloroethene	0.63	U	5.3	0.63	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
cis-1,3-Dichloropropene	0.63	U	5.3	0.63	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Cymene	0.34	U	5.3	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Dibromochloromethane	0.43	U	5.3	0.43	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Dibromomethane	1.0	U	5.3	1.0	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,2-Dichlorobenzene	0.29	U	5.3	0.29	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,3-Dichlorobenzene	0.29	U	5.3	0.29	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,4-Dichlorobenzene	0.63	U	5.3	0.63	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Dichlorodifluoromethane	1.4	U	11	1.4	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,1-Dichloroethane	0.41	U	5.3	0.41	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,2-Dichloroethane	0.91	U	5.3	0.91	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,1-Dichloroethene	1.7	U	5.3	1.7	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,2-Dichloropropane	0.40	U	5.3	0.40	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,3-Dichloropropane	0.34	U	5.3	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
2,2-Dichloropropane	0.57	U	5.3	0.57	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,1-Dichloropropene	0.32	U	5.3	0.32	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Ethanol	64	U *	260	64	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Ethylbenzene	0.32	U	5.3	0.32	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-7 5.0-6.5
Date Collected: 03/20/14 09:45
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-2
Matrix: Solid
Percent Solids: 92.3

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	1.9	U	21	1.9	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Isopropylbenzene	0.27	U	5.3	0.27	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Methylene Chloride	1.7	U	5.3	1.7	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Methyl iodide	1.6	U	5.3	1.6	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
4-Methyl-2-pentanone (MIBK)	0.77	U	21	0.77	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Methyl tert-butyl ether	0.50	U	5.3	0.50	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
m-Xylene & p-Xylene	0.60	U	5.3	0.60	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Naphthalene	0.51	U	5.3	0.51	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
n-Butylbenzene	0.63	U	5.3	0.63	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
N-Propylbenzene	0.34	U	5.3	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
o-Xylene	0.36	U	5.3	0.36	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
sec-Butylbenzene	0.33	U	5.3	0.33	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Styrene	0.37	U	5.3	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
tert-Butylbenzene	0.33	U	5.3	0.33	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,1,1,2-Tetrachloroethane	0.37	U	5.3	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,1,2,2-Tetrachloroethane	0.42	U	5.3	0.42	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Tetrachloroethene	0.34	U	5.3	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Toluene	0.74	U	5.3	0.74	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
trans-1,2-Dichloroethene	0.99	U	5.3	0.99	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
trans-1,3-Dichloropropene	0.37	U	5.3	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,2,3-Trichlorobenzene	0.46	U	5.3	0.46	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,2,4-Trichlorobenzene	0.45	U	5.3	0.45	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,1,1-Trichloroethane	0.45	U	5.3	0.45	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,1,2-Trichloroethane	0.60	U	5.3	0.60	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Trichloroethene	0.41	U	5.3	0.41	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Trichlorofluoromethane	0.53	U	5.3	0.53	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,2,3-Trichloropropane	0.59	U	5.3	0.59	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,2,4-Trimethylbenzene	0.63	U	5.3	0.63	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
1,3,5-Trimethylbenzene	0.33	U	5.3	0.33	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Vinyl acetate	0.82	U	5.3	0.82	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Vinyl chloride	0.45	U	5.3	0.45	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1
Xylenes, Total	0.89	U	11	0.89	ug/Kg	☼	03/24/14 16:13	03/24/14 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 150*	*03/24/14 16:13*	*03/24/14 20:03*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 126*	*03/24/14 16:13*	*03/24/14 20:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 127*	*03/24/14 16:13*	*03/24/14 20:03*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*03/24/14 16:13*	*03/24/14 20:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Acenaphthylene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Anthracene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Benzo[a]anthracene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Benzo[b]fluoranthene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Benzo[k]fluoranthene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Benzo[g,h,i]perylene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Benzo[a]pyrene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Chrysene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1

Client Sample ID: NE-B-7 5.0-6.5
Date Collected: 03/20/14 09:45
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-2
Matrix: Solid
Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Fluoranthene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Fluorene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Indeno[1,2,3-cd]pyrene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Naphthalene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Phenanthrene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1
Pyrene	36	U	360	36	ug/Kg	☼	03/24/14 08:33	03/27/14 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*84*		*53 - 97*	*03/24/14 08:33*	*03/27/14 20:04*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*46 - 111*	*03/24/14 08:33*	*03/27/14 20:04*	*1*
Nitrobenzene-d5 (Surr)	*85*		*55 - 98*	*03/24/14 08:33*	*03/27/14 20:04*	*1*
Phenol-d5 (Surr)	*78*		*54 - 101*	*03/24/14 08:33*	*03/27/14 20:04*	*1*
Terphenyl-d14 (Surr)	*86*		*58 - 123*	*03/24/14 08:33*	*03/27/14 20:04*	*1*
2-Fluorobiphenyl (Surr)	*94*		*56 - 97*	*03/24/14 08:33*	*03/27/14 20:04*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.25	U	22	0.25	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-2	0.25	U	22	0.25	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-3	0.26	U	22	0.26	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-4	5.8	U	22	5.8	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-5	2.0	U	22	2.0	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-6	2.0	U	22	2.0	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-7	1.8	U	22	1.8	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-8	1.9	U	22	1.9	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-9	2.1	U	22	2.1	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-10	4.0	U	22	4.0	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-11	**6.0**	**J**	22	2.0	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-12/13	2.1	U	43	2.1	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-14	1.7	U	22	1.7	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-15	2.3	U	22	2.3	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-16	**1.1**	**J**	22	0.71	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-17	**0.92**	**J**	22	0.50	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-18/30	**1.7**	**J**	43	0.42	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-19	0.55	U	22	0.55	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-20/28	**2.9**	**J q**	43	0.32	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-21/33	**1.1**	**J q**	43	0.30	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-22	**0.86**	**J q**	22	0.34	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-23	0.29	U	22	0.29	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-24	0.37	U	22	0.37	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-25	0.30	U	22	0.30	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-26/29	**0.40**	**J q**	43	0.30	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-27	0.37	U	22	0.37	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-31	**2.0**	**J q**	22	0.30	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-32	**0.48**	**J q**	22	0.29	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-34	0.30	U	22	0.30	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-35	0.35	U	22	0.35	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-36	0.31	U	22	0.31	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-37	**1.5**	**J**	22	0.42	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-7 5.0-6.5
Date Collected: 03/20/14 09:45
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-2
Matrix: Solid
Percent Solids: 92.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-38	0.33	U	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-39	0.31	U	22	0.31	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-40/71	**1.4**	**J B**	43	0.28	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-41	0.36	U	22	0.36	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-42	**0.41**	**J q**	22	0.31	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-43	0.32	U	22	0.32	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-44/47/65	**5.1**	**J B**	65	0.27	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-45	0.31	U	22	0.31	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-46	0.33	U	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-48	**0.82**	**J q**	22	0.29	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-49/69	**1.6**	**J q**	43	0.23	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-50/53	0.26	U	43	0.26	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-51	0.26	U	22	0.26	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-52	**7.8**	**J B**	22	0.29	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-54	0.22	U	22	0.22	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-55	0.41	U	22	0.41	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-56	**1.6**	**J q**	22	0.45	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-57	0.40	U	22	0.40	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-58	0.41	U	22	0.41	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-59/62/75	0.21	U	65	0.21	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-60	0.43	U	22	0.43	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-61/70/74/76	**7.0**	**J**	86	0.40	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-63	0.38	U	22	0.38	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-64	**1.6**	**J q**	22	0.19	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-66	**3.0**	**J q**	22	0.45	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-67	0.38	U	22	0.38	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-68	0.36	U	22	0.36	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-72	0.39	U	22	0.39	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-73	0.22	U	22	0.22	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-77	0.56	U	2.2	0.56	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-78	0.46	U	22	0.46	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-79	0.40	U	22	0.40	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-80	0.38	U	22	0.38	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-81	0.56	U	2.2	0.56	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-82	0.80	U	22	0.80	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-83	0.87	U	22	0.87	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-84	**2.8**	**J**	22	0.72	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-85/116/117	**2.2**	**J**	65	0.53	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-86/87/97/108/119/125	**7.2**	**J q**	130	0.55	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-88/91	**1.1**	**J**	43	0.61	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-89	0.68	U	22	0.68	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-90/101/113	**12**	**J**	65	0.55	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-92	**1.5**	**J q**	22	0.65	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-93/100	0.61	U	43	0.61	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-107/124	0.50	U	43	0.50	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-94	0.65	U	22	0.65	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-95	**7.8**	**J**	22	0.60	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-96	0.24	U	22	0.24	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-98/102	0.57	U	43	0.57	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-7 5.0-6.5
Date Collected: 03/20/14 09:45
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-2
Matrix: Solid
Percent Solids: 92.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-99	**5.7**	**J**	22	0.64	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-103	0.56	U	22	0.56	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-104	0.23	U	22	0.23	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-105	**7.5**		2.2	0.57	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-106	0.55	U	22	0.55	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-110/115	**17**	**J**	43	0.49	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-109	0.47	U	22	0.47	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-111	0.45	U	22	0.45	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-112	0.43	U	22	0.43	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-114	0.54	U	2.2	0.54	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-118	**14**		2.2	0.54	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-120	0.48	U	22	0.48	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-121	0.45	U	22	0.45	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-122	0.56	U	22	0.56	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-123	0.55	U	2.2	0.55	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-126	0.64	U	2.2	0.64	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-127	0.55	U	22	0.55	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-128/166	**3.3**	**J**	43	0.49	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-129/138/163	**19**	**J**	65	0.52	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-130	0.66	U	22	0.66	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-131	0.62	U	22	0.62	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-132	**4.0**	**J q**	22	0.59	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-133	0.58	U	22	0.58	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-134/143	0.59	U	43	0.59	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-135/151	**3.1**	**J**	43	0.52	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-136	**1.0**	**J q**	22	0.38	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-137	0.52	U	22	0.52	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-139/140	0.50	U	43	0.50	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-141	0.55	U	22	0.55	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-142	0.57	U	22	0.57	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-144	0.52	U	22	0.52	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-145	0.37	U	22	0.37	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-146	**1.5**	**J q**	22	0.55	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-147/149	**8.0**	**J B**	43	0.51	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-148	0.51	U	22	0.51	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-150	0.34	U	22	0.34	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-152	0.35	U	22	0.35	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-153/168	**11**	**J**	43	0.43	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-154	0.45	U	22	0.45	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-155	0.41	U	22	0.41	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-156/157	**2.7**	**J**	4.3	0.39	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-158	**1.8**	**J q**	22	0.39	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-159	0.32	U	22	0.32	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-160	0.45	U	22	0.45	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-161	0.39	U	22	0.39	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-162	0.31	U	22	0.31	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-164	0.44	U	22	0.44	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-165	0.45	U	22	0.45	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-167	**0.86**	**J**	2.2	0.31	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-7 5.0-6.5
Date Collected: 03/20/14 09:45
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-2
Matrix: Solid
Percent Solids: 92.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-169	0.35	U	2.2	0.35	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-170	**4.2**	**J**	22	0.37	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-171/173	**0.83**	**J q**	43	0.34	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-172	**0.80**	**J**	22	0.35	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-174	**3.2**	**J**	22	0.35	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-175	0.55	U	22	0.55	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-176	0.37	U	22	0.37	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-177	**1.4**	**J q**	22	0.35	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-178	0.57	U	22	0.57	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-179	**0.91**	**J q**	22	0.40	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-180/193	**8.4**	**J q**	43	0.28	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-181	0.29	U	22	0.29	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-182	0.51	U	22	0.51	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-183	**1.5**	**J q**	22	0.26	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-184	0.41	U	22	0.41	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-185	0.31	U	22	0.31	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-186	0.39	U	22	0.39	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-187	**3.7**	**J**	22	0.53	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-188	0.39	U	22	0.39	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-189	0.58	U	2.2	0.58	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-190	**0.46**	**J q**	22	0.26	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-191	0.25	U	22	0.25	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-192	0.26	U	22	0.26	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-194	**1.9**	**J**	22	0.50	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-195	0.46	U	22	0.46	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-196	**1.1**	**J**	22	0.36	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-197	0.24	U	22	0.24	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-198/199	**2.1**	**J**	43	0.37	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-200	0.24	U	22	0.24	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-201	**0.39**	**J q**	22	0.24	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-202	0.28	U	22	0.28	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-203	**1.5**	**J**	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-204	0.25	U	22	0.25	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-205	0.36	U	22	0.36	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-206	**2.4**	**J q**	22	0.51	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-207	**3.2**	**J**	22	0.36	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-208	**1.9**	**J**	22	0.42	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
PCB-209	**240**		22	0.51	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
Total Monochlorobiphenyls	0.26	U	220	0.26	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
Total Dichlorobiphenyls	**6.0**	**J**	220	2.5	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
Total Trichlorobiphenyls	**13**	**J q**	220	0.37	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
Total Tetrachlorobiphenyls	**30**	**J B q**	220	0.35	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
Total Pentachlorobiphenyls	**78**	**J q**	220	0.56	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
Total Hexachlorobiphenyls	**55**	**J B q**	220	0.47	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
Total Heptachlorobiphenyls	**25**	**J q**	220	0.38	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
Total Octachlorobiphenyls	**7.0**	**J q**	220	0.33	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
Total Nonachlorobiphenyls	**7.5**	**J q**	220	0.43	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1
Polychlorinated biphenyls, Total	**470**	**B q**	220	0.62	pg/g	☼	03/24/14 14:13	04/12/14 12:04	1

Client Sample ID: NE-B-7 5.0-6.5
Date Collected: 03/20/14 09:45
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-2
Matrix: Solid
Percent Solids: 92.3

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-4L	53		5 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-15L	48	q	5 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-123L	69		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-114L	72		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-202L	81		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-3L	50		5 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-118L	70		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-126L	78		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-206L	81		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-169L	92		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-37L	58		5 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-19L	60		5 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-188L	74		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-54L	57		5 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-156L/157L	83		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-167L	78		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-209L	84		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-189L	75		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-105L	73		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-208L	85		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-1L	43		5 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-104L	57		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-81L	61		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-77L	62		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-205L	83		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-155L	55		10 - 145	03/24/14 14:13	04/12/14 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	57		5 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-111L	73		10 - 145	03/24/14 14:13	04/12/14 12:04	1
PCB-178L	91		10 - 145	03/24/14 14:13	04/12/14 12:04	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.025	U	1.1	0.025	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
2,3,7,8-TCDF	**0.25**	**J**	1.1	0.020	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
1,2,3,7,8-PeCDD	0.031	U	5.4	0.031	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
1,2,3,7,8-PeCDF	**0.26**	**J**	5.4	0.032	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
2,3,4,7,8-PeCDF	0.033	U	5.4	0.033	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
1,2,3,4,7,8-HxCDD	**0.032**	**J q**	5.4	0.024	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
1,2,3,6,7,8-HxCDD	**0.078**	**J**	5.4	0.019	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
1,2,3,7,8,9-HxCDD	**0.11**	**J**	5.4	0.018	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
1,2,3,4,7,8-HxCDF	**0.30**	**J q**	5.4	0.039	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
1,2,3,6,7,8-HxCDF	**0.20**	**J q**	5.4	0.031	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
1,2,3,7,8,9-HxCDF	0.038	U	5.4	0.038	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
2,3,4,6,7,8-HxCDF	0.036	U	5.4	0.036	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
1,2,3,4,6,7,8-HpCDD	**0.22**	**J**	5.4	0.043	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
1,2,3,4,6,7,8-HpCDF	**1.3**	**J**	5.4	0.051	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
1,2,3,4,7,8,9-HpCDF	**0.32**	**J q**	5.4	0.061	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
OCDD	**0.83**	**J q B**	11	0.068	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1
OCDF	**9.8**	**J B**	11	0.12	pg/g	☼	03/24/14 11:21	04/12/14 05:40	1

Client Sample ID: NE-B-7 5.0-6.5
Date Collected: 03/20/14 09:45
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-2
Matrix: Solid
Percent Solids: 92.3

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*99*		*40 - 135*	*03/24/14 11:21*	*04/12/14 05:40*	*1*
13C-2,3,7,8-TCDD	*94*		*40 - 135*	*03/24/14 11:21*	*04/12/14 05:40*	*1*
13C-1,2,3,7,8-PeCDD	*102*		*40 - 135*	*03/24/14 11:21*	*04/12/14 05:40*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*100*		*40 - 135*	*03/24/14 11:21*	*04/12/14 05:40*	*1*
13C-1,2,3,7,8-PeCDF	*99*		*40 - 135*	*03/24/14 11:21*	*04/12/14 05:40*	*1*
13C-2,3,7,8-TCDF	*98*		*40 - 135*	*03/24/14 11:21*	*04/12/14 05:40*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*104*		*40 - 135*	*03/24/14 11:21*	*04/12/14 05:40*	*1*
13C-OCDD	*88*		*40 - 135*	*03/24/14 11:21*	*04/12/14 05:40*	*1*
13C-1,2,3,4,7,8-HxCDF	*95*		*40 - 135*	*03/24/14 11:21*	*04/12/14 05:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7600**		210	45	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Antimony	3.3	U	11	3.3	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Barium	**170**		53	1.2	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Beryllium	0.79	U	5.3	0.79	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Cadmium	0.36	U	5.3	0.36	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Calcium	**31000**		2600	71	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Chromium	**17**		11	1.5	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Cobalt	**13**	**J**	53	1.5	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Copper	**17**	**J**	26	2.6	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Iron	**12000**		110	21	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Lead	**11**		11	1.4	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Magnesium	**7300**		1100	33	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Manganese	**300**		11	0.85	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Nickel	**20**	**J**	42	1.2	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Potassium	**1700**	**J**	5300	770	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Selenium	2.2	U	16	2.2	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Silver	0.74	U	11	0.74	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Sodium	**730**	**J**	1100	81	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Titanium	**570**		21	1.4	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Vanadium	**29**	**J**	53	5.4	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10
Zinc	**50**	**J B**	53	5.9	mg/Kg	☼	03/24/14 08:27	04/09/14 16:04	10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.1**	**J**	5.4	1.4	mg/Kg	☼	03/24/14 08:30	04/09/14 22:04	10
Niobium	2.1	U	14	2.1	mg/Kg	☼	03/24/14 08:30	04/09/14 22:04	10
Thallium	0.82	U	2.7	0.82	mg/Kg	☼	03/24/14 08:30	04/09/14 22:04	10
Uranium	**1.3**		0.54	0.11	mg/Kg	☼	03/24/14 08:30	04/09/14 22:04	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	U	0.035	0.012	mg/Kg	☼	03/31/14 11:30	04/01/14 09:09	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**6.7**	**B**	0.22	0.044	mg/Kg	☼		04/10/14 08:18	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**770**		44	4.4	mg/Kg	☼		04/10/14 08:32	20

Client Sample ID: NE-B-7 5.0-6.5
Date Collected: 03/20/14 09:45
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-2
Matrix: Solid
Percent Solids: 92.3

General Chemistry - Soluble - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	260		110	11	mg/Kg	☼		04/10/14 08:32	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	18.9		5.69	6.08	10.0	5.67	pCi/g	03/28/14 09:21	03/31/14 11:37	1
Gross Beta	25.8		3.57	4.40	10.0	3.08	pCi/g	03/28/14 09:21	03/31/14 11:37	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium 228	1.72		0.237	0.295		0.161	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Bismuth-212	2.20		0.829	0.860		0.723	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Bismuth-214	1.01		0.153	0.186		0.116	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Bismuth-210M	0.000	U	0.0260	0.0260		0.139	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Cesium-134	0.0659	U	0.0266	0.0275		0.0660	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Cesium-137	-0.0242	U	0.0478	0.0478		0.0811	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Cobalt-57	0.0196	U	0.0396	0.0397		0.0462	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Cobalt-60	0.0102	U	0.0175	0.0175		0.0780	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Lead-212	1.62		0.141	0.252		0.126	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Lead-214	0.993		0.167	0.196		0.144	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Potassium-40	22.0		1.77	2.87		0.612	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Protactinium-231	1.28	U	0.572	0.589		1.98	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Protactinium-234	0.213		0.169	0.170		0.195	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Radium-224	1.41	U	1.18	1.19		1.91	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Thallium-208	0.518		0.0799	0.0963		0.0592	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Thorium-227	-0.444	U	0.491	0.494		0.806	pCi/g	03/25/14 17:06	04/15/14 19:47	1
Thorium-234	0.741	U	0.670	0.675		2.07	pCi/g	03/25/14 17:06	04/15/14 19:47	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.02		0.211	0.230	1.00	0.152	pCi/g	03/25/14 12:45	04/17/14 06:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*111*	*X*	*40 - 110*	*03/25/14 12:45*	*04/17/14 06:52*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.09		0.271	0.289	1.00	0.326	pCi/g	03/25/14 12:54	04/16/14 11:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*111*	*X*	*40 - 110*	*03/25/14 12:54*	*04/16/14 11:14*	*1*
Y Carrier	*87.6*		*40 - 110*	*03/25/14 12:54*	*04/16/14 11:14*	*1*

Client Sample ID: NE-B-7 5.0-6.5

Lab Sample ID: 160-5993-2

Date Collected: 03/20/14 09:45

Matrix: Solid

Date Received: 03/21/14 09:00

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	1.78		0.304	0.339	1.00	0.123	pCi/g	03/28/14 12:40	04/09/14 01:27	1
Thorium-230	1.00		0.225	0.241	1.00	0.0654	pCi/g	03/28/14 12:40	04/09/14 01:27	1
Thorium-232	1.62		0.285	0.315	1.00	0.0376	pCi/g	03/28/14 12:40	04/09/14 01:27	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*70.4*		*30 - 110*	*03/28/14 12:40*	*04/09/14 01:27*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	0.657		0.175	0.183	1.00	0.0772	pCi/g	03/28/14 12:40	04/09/14 21:51	1
Uranium-235/236	0.0397	U	0.0492	0.0493	1.00	0.0643	pCi/g	03/28/14 12:40	04/09/14 21:51	1
Uranium-238	0.762		0.187	0.198	1.00	0.0692	pCi/g	03/28/14 12:40	04/09/14 21:51	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*81.6*		*30 - 110*	*03/28/14 12:40*	*04/09/14 21:51*	*1*

Client Sample ID: NE-B-7 10.0-11.5

Lab Sample ID: 160-5993-3

Date Collected: 03/20/14 10:05

Matrix: Solid

Date Received: 03/21/14 09:00

Percent Solids: 94.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.4	U *	20	6.4	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Acetonitrile	20	U *	49	20	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Benzene	0.25	U *	4.9	0.25	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Bromobenzene	0.36	U *	4.9	0.36	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Bromodichloromethane	0.25	U *	4.9	0.25	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Bromoform	0.36	U *	4.9	0.36	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Bromomethane	1.1	U *	9.9	1.1	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
2-Butanone (MEK)	1.9	U *	20	1.9	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Carbon disulfide	0.68	U *	4.9	0.68	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Carbon tetrachloride	0.50	U *	4.9	0.50	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Chlorobenzene	0.37	U *	4.9	0.37	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Chlorobromomethane	0.81	U *	4.9	0.81	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Chloroethane	0.51	U *	9.9	0.51	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Chloroform	0.37	U *	4.9	0.37	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Chloromethane	0.64	U *	9.9	0.64	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
2-Chlorotoluene	0.34	U *	4.9	0.34	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
4-Chlorotoluene	0.37	U *	4.9	0.37	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
cis-1,2-Dichloroethene	0.59	U *	4.9	0.59	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
cis-1,3-Dichloropropene	0.59	U *	4.9	0.59	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Cymene	0.32	U *	4.9	0.32	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Dibromochloromethane	0.40	U *	4.9	0.40	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Dibromomethane	0.96	U *	4.9	0.96	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,2-Dichlorobenzene	0.28	U *	4.9	0.28	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,3-Dichlorobenzene	0.28	U *	4.9	0.28	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-7 10.0-11.5
Date Collected: 03/20/14 10:05
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-3
Matrix: Solid
Percent Solids: 94.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.59	U *	4.9	0.59	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Dichlorodifluoromethane	1.3	U *	9.9	1.3	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,1-Dichloroethane	0.38	U *	4.9	0.38	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,2-Dichloroethane	0.86	U *	4.9	0.86	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,1-Dichloroethene	1.6	U *	4.9	1.6	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,2-Dichloropropane	0.37	U *	4.9	0.37	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,3-Dichloropropane	0.32	U *	4.9	0.32	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
2,2-Dichloropropane	0.53	U *	4.9	0.53	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,1-Dichloropropene	0.30	U *	4.9	0.30	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Ethanol	61	U *	250	61	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Ethylbenzene	0.30	U *	4.9	0.30	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
2-Hexanone	1.7	U *	20	1.7	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Isopropylbenzene	0.26	U *	4.9	0.26	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Methylene Chloride	1.6	U *	4.9	1.6	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Methyl iodide	1.5	U *	4.9	1.5	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
4-Methyl-2-pentanone (MIBK)	0.72	U *	20	0.72	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Methyl tert-butyl ether	0.47	U *	4.9	0.47	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
m-Xylene & p-Xylene	0.56	U *	4.9	0.56	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Naphthalene	0.48	U *	4.9	0.48	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
n-Butylbenzene	0.59	U *	4.9	0.59	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
N-Propylbenzene	0.32	U *	4.9	0.32	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
o-Xylene	0.34	U *	4.9	0.34	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
sec-Butylbenzene	0.31	U *	4.9	0.31	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Styrene	0.35	U *	4.9	0.35	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
tert-Butylbenzene	0.31	U *	4.9	0.31	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,1,1,2-Tetrachloroethane	0.35	U *	4.9	0.35	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,1,2,2-Tetrachloroethane	0.39	U *	4.9	0.39	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Tetrachloroethene	0.32	U *	4.9	0.32	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Toluene	0.69	U *	4.9	0.69	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
trans-1,2-Dichloroethene	0.93	U *	4.9	0.93	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
trans-1,3-Dichloropropene	0.35	U *	4.9	0.35	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,2,3-Trichlorobenzene	0.43	U *	4.9	0.43	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,2,4-Trichlorobenzene	0.42	U *	4.9	0.42	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,1,1-Trichloroethane	0.42	U *	4.9	0.42	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,1,2-Trichloroethane	0.56	U *	4.9	0.56	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Trichloroethene	0.38	U *	4.9	0.38	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Trichlorofluoromethane	0.49	U *	4.9	0.49	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,2,3-Trichloropropane	0.55	U *	4.9	0.55	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,2,4-Trimethylbenzene	0.59	U *	4.9	0.59	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
1,3,5-Trimethylbenzene	0.31	U *	4.9	0.31	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Vinyl acetate	0.77	U *	4.9	0.77	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Vinyl chloride	0.42	U *	4.9	0.42	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1
Xylenes, Total	0.84	U *	9.9	0.84	ug/Kg	☼	03/24/14 07:10	03/24/14 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*189*	** X*	*63 - 150*	*03/24/14 07:10*	*03/24/14 13:09*	*1*
Dibromofluoromethane (Surr)	*74*	***	*70 - 126*	*03/24/14 07:10*	*03/24/14 13:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*50*	** X*	*72 - 127*	*03/24/14 07:10*	*03/24/14 13:09*	*1*
Toluene-d8 (Surr)	*145*	** X*	*80 - 120*	*03/24/14 07:10*	*03/24/14 13:09*	*1*

Client Sample ID: NE-B-7 10.0-11.5

Lab Sample ID: 160-5993-3
Date Collected: 03/20/14 10:05
Matrix: Solid
Date Received: 03/21/14 09:00
Percent Solids: 94.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7600**		190	40	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Antimony	2.9	U	9.4	2.9	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Barium	**170**		47	1.0	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Beryllium	0.70	U	4.7	0.70	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Cadmium	0.32	U	4.7	0.32	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Calcium	**46000**		2300	63	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Chromium	**16**		9.4	1.3	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Cobalt	**11**	**J**	47	1.3	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Copper	**18**	**J**	23	2.3	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Iron	**11000**		94	19	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Lead	**11**		9.4	1.2	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Magnesium	**7400**		940	30	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Manganese	**270**		9.4	0.75	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Nickel	**20**	**J**	37	1.1	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Potassium	**1300**	**J**	4700	680	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Selenium	1.9	U	14	1.9	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Silver	0.65	U	9.4	0.65	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Sodium	**770**	**J**	940	71	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Titanium	**530**		19	1.2	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Vanadium	**29**	**J**	47	4.7	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10
Zinc	**48**	**B**	47	5.3	mg/Kg	☼	03/24/14 08:27	04/09/14 16:09	10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.4**		5.2	1.3	mg/Kg	☼	03/24/14 08:30	04/09/14 22:10	10
Niobium	2.0	U	13	2.0	mg/Kg	☼	03/24/14 08:30	04/09/14 22:10	10
Thallium	0.79	U	2.6	0.79	mg/Kg	☼	03/24/14 08:30	04/09/14 22:10	10
Uranium	**1.8**		0.52	0.10	mg/Kg	☼	03/24/14 08:30	04/09/14 22:10	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.034	0.011	mg/Kg	☼	03/31/14 11:30	04/01/14 09:11	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**6.6**	**B**	0.21	0.042	mg/Kg	☼		04/10/14 08:46	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**350**		42	4.2	mg/Kg	☼		04/10/14 09:00	20
Sulfate	**410**		110	11	mg/Kg	☼		04/10/14 09:00	20

Client Sample ID: DD-B-12 5-10

Lab Sample ID: 160-5993-4
Date Collected: 03/19/14 15:20
Matrix: Solid
Date Received: 03/21/14 09:00
Percent Solids: 90.8

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**17**	**J**	24	7.8	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Acetonitrile	25	U *	60	25	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Benzene	0.30	U	6.0	0.30	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: DD-B-12 5-10
Date Collected: 03/19/14 15:20
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-4
Matrix: Solid
Percent Solids: 90.8

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	0.44	U	6.0	0.44	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Bromodichloromethane	0.30	U	6.0	0.30	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Bromoform	0.44	U	6.0	0.44	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Bromomethane	1.3	U *	12	1.3	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
2-Butanone (MEK)	2.3	U	24	2.3	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Carbon disulfide	0.83	U	6.0	0.83	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Carbon tetrachloride	0.61	U	6.0	0.61	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Chlorobenzene	0.46	U	6.0	0.46	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Chlorobromomethane	0.99	U	6.0	0.99	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Chloroethane	0.62	U	12	0.62	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Chloroform	0.46	U	6.0	0.46	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Chloromethane	0.78	U	12	0.78	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
2-Chlorotoluene	0.41	U	6.0	0.41	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
4-Chlorotoluene	0.46	U	6.0	0.46	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
cis-1,2-Dichloroethene	0.72	U	6.0	0.72	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
cis-1,3-Dichloropropene	0.72	U	6.0	0.72	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Cymene	0.38	U	6.0	0.38	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Dibromochloromethane	0.49	U	6.0	0.49	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Dibromomethane	1.2	U	6.0	1.2	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,2-Dichlorobenzene	0.34	U	6.0	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,3-Dichlorobenzene	0.34	U	6.0	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,4-Dichlorobenzene	0.72	U	6.0	0.72	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Dichlorodifluoromethane	1.6	U	12	1.6	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,1-Dichloroethane	0.47	U	6.0	0.47	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,2-Dichloroethane	1.0	U	6.0	1.0	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,1-Dichloroethene	1.9	U	6.0	1.9	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,2-Dichloropropane	0.46	U	6.0	0.46	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,3-Dichloropropane	0.38	U	6.0	0.38	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
2,2-Dichloropropane	0.65	U	6.0	0.65	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,1-Dichloropropene	0.36	U	6.0	0.36	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Ethanol	74	U *	300	74	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Ethylbenzene	0.36	U	6.0	0.36	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
2-Hexanone	2.1	U	24	2.1	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Isopropylbenzene	0.31	U	6.0	0.31	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Methylene Chloride	1.9	U	6.0	1.9	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Methyl iodide	1.8	U	6.0	1.8	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
4-Methyl-2-pentanone (MIBK)	0.88	U	24	0.88	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Methyl tert-butyl ether	0.58	U	6.0	0.58	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
m-Xylene & p-Xylene	0.68	U	6.0	0.68	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Naphthalene	0.59	U	6.0	0.59	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
n-Butylbenzene	0.72	U	6.0	0.72	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
N-Propylbenzene	0.38	U	6.0	0.38	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
o-Xylene	0.41	U	6.0	0.41	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
sec-Butylbenzene	0.37	U	6.0	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Styrene	0.42	U	6.0	0.42	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
tert-Butylbenzene	0.37	U	6.0	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,1,1,2-Tetrachloroethane	0.42	U	6.0	0.42	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,1,2,2-Tetrachloroethane	0.48	U	6.0	0.48	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Tetrachloroethene	0.38	U	6.0	0.38	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: DD-B-12 5-10
Date Collected: 03/19/14 15:20
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-4
Matrix: Solid
Percent Solids: 90.8

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.84	U	6.0	0.84	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
trans-1,2-Dichloroethene	1.1	U	6.0	1.1	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
trans-1,3-Dichloropropene	0.42	U	6.0	0.42	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,2,3-Trichlorobenzene	0.53	U	6.0	0.53	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,2,4-Trichlorobenzene	0.52	U	6.0	0.52	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,1,1-Trichloroethane	0.52	U	6.0	0.52	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,1,2-Trichloroethane	0.68	U	6.0	0.68	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Trichloroethene	0.47	U	6.0	0.47	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Trichlorofluoromethane	0.60	U	6.0	0.60	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,2,3-Trichloropropane	0.67	U	6.0	0.67	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,2,4-Trimethylbenzene	0.72	U	6.0	0.72	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
1,3,5-Trimethylbenzene	0.37	U	6.0	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Vinyl acetate	0.94	U	6.0	0.94	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Vinyl chloride	0.52	U	6.0	0.52	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1
Xylenes, Total	1.0	U	12	1.0	ug/Kg	☼	03/24/14 16:13	03/24/14 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 150*	*03/24/14 16:13*	*03/24/14 21:03*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 126*	*03/24/14 16:13*	*03/24/14 21:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 127*	*03/24/14 16:13*	*03/24/14 21:03*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*03/24/14 16:13*	*03/24/14 21:03*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.19	U	22	0.19	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-2	0.19	U	22	0.19	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-3	0.19	U	22	0.19	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-4	3.2	U	22	3.2	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-5	1.7	U	22	1.7	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-6	1.8	U	22	1.8	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-7	1.6	U	22	1.6	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-8	1.7	U	22	1.7	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-9	1.8	U	22	1.8	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-10	2.2	U	22	2.2	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-11	1.8	U	22	1.8	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-12/13	1.8	U	44	1.8	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-14	1.5	U	22	1.5	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-15	2.0	U	22	2.0	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-16	0.65	U	22	0.65	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-17	0.46	U	22	0.46	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-18/30	**1.1**	**J q**	44	0.39	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-19	0.49	U	22	0.49	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-20/28	**1.9**	**J q**	44	0.35	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-21/33	**0.62**	**J q**	44	0.32	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-22	0.37	U	22	0.37	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-23	0.32	U	22	0.32	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-24	0.34	U	22	0.34	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-25	0.33	U	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-26/29	0.33	U	44	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-27	0.34	U	22	0.34	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: DD-B-12 5-10
Date Collected: 03/19/14 15:20
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-4
Matrix: Solid
Percent Solids: 90.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-31	**1.4**	**J**	22	0.32	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-32	0.26	U	22	0.26	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-34	0.33	U	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-35	0.38	U	22	0.38	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-36	0.33	U	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-37	0.47	U	22	0.47	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-38	0.36	U	22	0.36	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-39	0.34	U	22	0.34	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-40/71	**0.66**	**J B q**	44	0.23	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-41	0.30	U	22	0.30	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-42	**0.46**	**J q**	22	0.26	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-43	0.27	U	22	0.27	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-44/47/65	**2.7**	**J B**	66	0.22	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-45	0.26	U	22	0.26	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-46	0.28	U	22	0.28	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-48	0.24	U	22	0.24	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-49/69	**0.96**	**J**	44	0.19	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-50/53	0.22	U	44	0.22	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-51	0.22	U	22	0.22	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-52	**4.5**	**J B**	22	0.24	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-54	0.23	U	22	0.23	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-55	0.33	U	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-56	**0.70**	**J q**	22	0.36	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-57	0.32	U	22	0.32	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-58	0.33	U	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-59/62/75	0.17	U	66	0.17	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-60	0.34	U	22	0.34	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-61/70/74/76	**2.5**	**J q**	88	0.32	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-63	0.30	U	22	0.30	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-64	**0.75**	**J q**	22	0.16	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-66	**1.3**	**J q**	22	0.36	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-67	0.30	U	22	0.30	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-68	0.29	U	22	0.29	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-72	0.31	U	22	0.31	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-73	0.18	U	22	0.18	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-77	0.50	U	2.2	0.50	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-78	0.37	U	22	0.37	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-79	0.32	U	22	0.32	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-80	0.30	U	22	0.30	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-81	0.47	U	2.2	0.47	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-82	0.60	U	22	0.60	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-83	0.65	U	22	0.65	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-84	**1.1**	**J q**	22	0.54	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-85/116/117	0.40	U	66	0.40	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-86/87/97/108/119/125	**2.4**	**J q**	130	0.41	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-88/91	0.46	U	44	0.46	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-89	0.52	U	22	0.52	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-90/101/113	**7.2**	**J**	66	0.42	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-92	**1.2**	**J**	22	0.49	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: DD-B-12 5-10
Date Collected: 03/19/14 15:20
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-4
Matrix: Solid
Percent Solids: 90.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-93/100	0.46	U	44	0.46	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-107/124	0.38	U	44	0.38	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-94	0.49	U	22	0.49	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-95	**6.7**	**J**	22	0.45	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-96	0.23	U	22	0.23	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-98/102	0.43	U	44	0.43	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-99	**1.5**	**J q**	22	0.48	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-103	0.43	U	22	0.43	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-104	0.21	U	22	0.21	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-105	**2.5**		2.2	0.44	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-106	0.41	U	22	0.41	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-110/115	**6.6**	**J**	44	0.37	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-109	0.35	U	22	0.35	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-111	0.34	U	22	0.34	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-112	0.32	U	22	0.32	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-114	0.43	U	2.2	0.43	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-115	**6.6**	**J**	44	0.37	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-118	**4.4**		2.2	0.41	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-120	0.36	U	22	0.36	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-121	0.34	U	22	0.34	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-122	0.42	U	22	0.42	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-123	0.42	U	2.2	0.42	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-126	0.51	U	2.2	0.51	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-127	0.41	U	22	0.41	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-128/166	**1.4**	**J**	44	0.41	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-129/138/163	**16**	**J**	66	0.43	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-130	0.55	U	22	0.55	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-131	0.52	U	22	0.52	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-132	**4.5**	**J**	22	0.49	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-133	0.49	U	22	0.49	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-134/143	0.49	U	44	0.49	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-135/151	**5.7**	**J**	44	0.44	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-136	**1.9**	**J**	22	0.32	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-137	0.43	U	22	0.43	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-139/140	0.41	U	44	0.41	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-141	**3.4**	**J q**	22	0.46	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-142	0.48	U	22	0.48	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-144	0.43	U	22	0.43	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-145	0.31	U	22	0.31	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-146	**1.7**	**J**	22	0.46	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-147/149	**11**	**J B q**	44	0.43	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-148	0.43	U	22	0.43	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-150	0.29	U	22	0.29	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-152	0.29	U	22	0.29	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-153/168	**14**	**J**	44	0.36	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-154	0.38	U	22	0.38	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-155	0.33	U	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-156/157	**1.3**	**J**	4.4	0.46	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-158	**1.0**	**J q**	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: DD-B-12 5-10
Date Collected: 03/19/14 15:20
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-4
Matrix: Solid
Percent Solids: 90.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-159	0.38	U	22	0.38	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-160	0.38	U	22	0.38	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-161	0.33	U	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-162	0.37	U	22	0.37	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-164	**0.87**	**J q**	22	0.36	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-165	0.38	U	22	0.38	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-167	0.36	U	2.2	0.36	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-169	0.43	U	2.2	0.43	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-170	**7.5**	**J**	22	0.35	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-171/173	**0.72**	**J q**	44	0.32	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-172	0.33	U	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-174	**8.2**	**J**	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-175	0.46	U	22	0.46	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-176	**0.94**	**J**	22	0.31	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-177	**4.0**	**J**	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-178	**1.2**	**J**	22	0.48	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-179	**2.5**	**J q**	22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-180/193	**18**	**J**	44	0.27	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-181	0.27	U	22	0.27	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-182	0.42	U	22	0.42	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-183	**4.4**	**J**	22	0.24	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-184	0.34	U	22	0.34	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-185	**0.49**	**J q**	22	0.29	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-186	0.32	U	22	0.32	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-187	**8.2**	**J**	22	0.44	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-188	0.32	U	22	0.32	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-189	0.53	U	2.2	0.53	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-190	**1.4**	**J q**	22	0.25	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-191	0.24	U	22	0.24	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-192	0.25	U	22	0.25	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-194	**2.6**	**J q**	22	0.44	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-195	**0.99**	**J**	22	0.40	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-196	**1.7**	**J**	22	0.46	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-197	0.30	U	22	0.30	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-198/199	**2.9**	**J q**	44	0.47	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-200	0.31	U	22	0.31	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-201	0.31	U	22	0.31	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-202	**0.54**	**J q**	22	0.36	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-203	**2.3**	**J**	22	0.42	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-204	0.32	U	22	0.32	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-205	0.31	U	22	0.31	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-206	**2.9**	**J**	22	0.47	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-207	**2.1**	**J**	22	0.34	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-208	**1.8**	**J**	22	0.39	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
PCB-209	**100**		22	0.33	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
Total Monochlorobiphenyls	0.19	U	220	0.19	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
Total Dichlorobiphenyls	3.2	U	220	3.2	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
Total Trichlorobiphenyls	**5.0**	**J q**	220	0.37	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
Total Tetrachlorobiphenyls	**15**	**J B q**	220	0.29	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1

Client Sample ID: DD-B-12 5-10
Date Collected: 03/19/14 15:20
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-4
Matrix: Solid
Percent Solids: 90.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Pentachlorobiphenyls	33	J q	220	0.42	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
Total Hexachlorobiphenyls	64	J B q	220	0.41	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
Total Heptachlorobiphenyls	57	J q	220	0.34	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
Total Octachlorobiphenyls	11	J q	220	0.37	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
Total Nonachlorobiphenyls	6.8	J	220	0.40	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1
Polychlorinated biphenyls, Total	290	B q	220	0.63	pg/g	☼	03/24/14 14:13	04/12/14 13:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*60*		*5 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-15L	*61*		*5 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-123L	*73*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-114L	*74*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-202L	*82*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-3L	*58*		*5 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-118L	*75*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-126L	*79*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-206L	*84*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-169L	*92*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-37L	*61*		*5 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-19L	*66*		*5 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-188L	*75*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-54L	*64*		*5 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-156L/157L	*84*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-167L	*80*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-209L	*87*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-189L	*76*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-105L	*77*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-208L	*86*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-1L	*47*		*5 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-104L	*66*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-81L	*62*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-77L	*61*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-205L	*84*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-155L	*60*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*63*		*5 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-111L	*76*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*
PCB-178L	*89*		*10 - 145*	*03/24/14 14:13*	*04/12/14 13:19*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.024	U	1.1	0.024	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
2,3,7,8-TCDF	0.45	J	1.1	0.018	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
1,2,3,7,8-PeCDD	0.036	U	5.5	0.036	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
1,2,3,7,8-PeCDF	0.19	J q	5.5	0.030	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
2,3,4,7,8-PeCDF	0.24	J B	5.5	0.031	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
1,2,3,4,7,8-HxCDD	0.024	U	5.5	0.024	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
1,2,3,6,7,8-HxCDD	0.16	J	5.5	0.019	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
1,2,3,7,8,9-HxCDD	0.19	J	5.5	0.018	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
1,2,3,4,7,8-HxCDF	1.9	J	5.5	0.048	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1

Client Sample ID: DD-B-12 5-10

Date Collected: 03/19/14 15:20
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-4

Matrix: Solid
Percent Solids: 90.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDF	0.61	J	5.5	0.038	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
1,2,3,7,8,9-HxCDF	0.27	J	5.5	0.046	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
2,3,4,6,7,8-HxCDF	0.20	J	5.5	0.043	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
1,2,3,4,6,7,8-HpCDD	0.25	J q	5.5	0.029	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
1,2,3,4,6,7,8-HpCDF	4.0	J	5.5	0.11	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
1,2,3,4,7,8,9-HpCDF	0.45	J q	5.5	0.14	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
OCDD	1.4	J q B	11	0.060	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1
OCDF	9.4	J B	11	0.11	pg/g	☼	03/24/14 11:21	04/12/14 06:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*102*		*40 - 135*	*03/24/14 11:21*	*04/12/14 06:22*	*1*
13C-2,3,7,8-TCDD	*94*		*40 - 135*	*03/24/14 11:21*	*04/12/14 06:22*	*1*
13C-1,2,3,7,8-PeCDD	*90*		*40 - 135*	*03/24/14 11:21*	*04/12/14 06:22*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*101*		*40 - 135*	*03/24/14 11:21*	*04/12/14 06:22*	*1*
13C-1,2,3,7,8-PeCDF	*90*		*40 - 135*	*03/24/14 11:21*	*04/12/14 06:22*	*1*
13C-2,3,7,8-TCDF	*91*		*40 - 135*	*03/24/14 11:21*	*04/12/14 06:22*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*108*		*40 - 135*	*03/24/14 11:21*	*04/12/14 06:22*	*1*
13C-OCDD	*95*		*40 - 135*	*03/24/14 11:21*	*04/12/14 06:22*	*1*
13C-1,2,3,4,7,8-HxCDF	*97*		*40 - 135*	*03/24/14 11:21*	*04/12/14 06:22*	*1*

Client Sample ID: NE-B-6 10.0-11.5

Date Collected: 03/20/14 08:30
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-5

Matrix: Solid
Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	29		25	8.0	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Acetonitrile	25	U *	62	25	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Benzene	0.31	U	6.2	0.31	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Bromobenzene	0.46	U	6.2	0.46	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Bromodichloromethane	0.31	U	6.2	0.31	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Bromoform	0.46	U	6.2	0.46	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Bromomethane	1.4	U *	12	1.4	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
2-Butanone (MEK)	2.4	U	25	2.4	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Carbon disulfide	0.85	U	6.2	0.85	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Carbon tetrachloride	0.63	U	6.2	0.63	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Chlorobenzene	0.47	U	6.2	0.47	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Chlorobromomethane	1.0	U	6.2	1.0	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Chloroethane	0.64	U	12	0.64	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Chloroform	0.47	U	6.2	0.47	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Chloromethane	0.80	U	12	0.80	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
2-Chlorotoluene	0.42	U	6.2	0.42	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
4-Chlorotoluene	0.47	U	6.2	0.47	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
cis-1,2-Dichloroethene	0.74	U	6.2	0.74	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
cis-1,3-Dichloropropene	0.74	U	6.2	0.74	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Cymene	0.39	U	6.2	0.39	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Dibromochloromethane	0.50	U	6.2	0.50	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Dibromomethane	1.2	U	6.2	1.2	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,2-Dichlorobenzene	0.34	U	6.2	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,3-Dichlorobenzene	0.34	U	6.2	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-6 10.0-11.5
Date Collected: 03/20/14 08:30
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-5
Matrix: Solid
Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.74	U	6.2	0.74	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Dichlorodifluoromethane	1.6	U	12	1.6	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,1-Dichloroethane	0.48	U	6.2	0.48	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,2-Dichloroethane	1.1	U	6.2	1.1	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,1-Dichloroethene	2.0	U	6.2	2.0	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,2-Dichloropropane	0.47	U	6.2	0.47	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,3-Dichloropropane	0.39	U	6.2	0.39	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
2,2-Dichloropropane	0.66	U	6.2	0.66	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,1-Dichloropropene	0.37	U	6.2	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Ethanol	76	U *	310	76	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Ethylbenzene	0.37	U	6.2	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
2-Hexanone	2.2	U	25	2.2	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Isopropylbenzene	0.32	U	6.2	0.32	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Methylene Chloride	1.9	U	6.2	1.9	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Methyl iodide	1.9	U	6.2	1.9	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
4-Methyl-2-pentanone (MIBK)	0.90	U	25	0.90	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Methyl tert-butyl ether	0.59	U	6.2	0.59	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
m-Xylene & p-Xylene	0.70	U	6.2	0.70	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Naphthalene	0.60	U	6.2	0.60	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
n-Butylbenzene	0.74	U	6.2	0.74	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
N-Propylbenzene	0.39	U	6.2	0.39	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
o-Xylene	0.42	U	6.2	0.42	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
sec-Butylbenzene	0.38	U	6.2	0.38	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Styrene	0.43	U	6.2	0.43	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
tert-Butylbenzene	0.38	U	6.2	0.38	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,1,1,2-Tetrachloroethane	0.43	U	6.2	0.43	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,1,2,2-Tetrachloroethane	0.49	U	6.2	0.49	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Tetrachloroethene	0.39	U	6.2	0.39	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Toluene	0.86	U	6.2	0.86	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
trans-1,2-Dichloroethene	1.2	U	6.2	1.2	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
trans-1,3-Dichloropropene	0.43	U	6.2	0.43	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,2,3-Trichlorobenzene	0.54	U	6.2	0.54	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,2,4-Trichlorobenzene	0.53	U	6.2	0.53	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,1,1-Trichloroethane	0.53	U	6.2	0.53	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,1,2-Trichloroethane	0.70	U	6.2	0.70	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Trichloroethene	0.48	U	6.2	0.48	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Trichlorofluoromethane	0.62	U	6.2	0.62	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,2,3-Trichloropropane	0.69	U	6.2	0.69	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,2,4-Trimethylbenzene	0.74	U	6.2	0.74	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
1,3,5-Trimethylbenzene	0.38	U	6.2	0.38	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Vinyl acetate	0.96	U	6.2	0.96	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Vinyl chloride	0.53	U	6.2	0.53	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1
Xylenes, Total	1.0	U	12	1.0	ug/Kg	☼	03/24/14 16:13	03/24/14 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*63 - 150*	*03/24/14 16:13*	*03/24/14 21:28*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 126*	*03/24/14 16:13*	*03/24/14 21:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 127*	*03/24/14 16:13*	*03/24/14 21:28*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*	*03/24/14 16:13*	*03/24/14 21:28*	*1*

Client Sample ID: NE-B-6 10.0-11.5

Lab Sample ID: 160-5993-5
Date Collected: 03/20/14 08:30
Matrix: Solid
Date Received: 03/21/14 09:00
Percent Solids: 92.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7600**		190	39	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Antimony	2.9	U	9.3	2.9	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Barium	**100**		46	1.0	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Beryllium	0.70	U	4.6	0.70	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Cadmium	0.32	U	4.6	0.32	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Calcium	**32000**		2300	62	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Chromium	**16**		9.3	1.3	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Cobalt	**10**	**J**	46	1.3	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Copper	**13**	**J**	23	2.3	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Iron	**11000**		93	18	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Lead	**11**		9.3	1.2	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Magnesium	**8600**		930	29	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Manganese	**250**		9.3	0.74	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Nickel	**18**	**J**	37	1.1	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Potassium	**1700**	**J**	4600	670	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Selenium	1.9	U	14	1.9	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Silver	0.65	U	9.3	0.65	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Sodium	**920**	**J**	930	71	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Titanium	**460**		19	1.2	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Vanadium	**28**	**J**	46	4.7	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10
Zinc	**43**	**J B**	46	5.2	mg/Kg	☼	03/24/14 08:27	04/09/14 16:23	10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.9**		4.9	1.3	mg/Kg	☼	03/24/14 08:30	04/09/14 22:30	10
Niobium	1.9	U	12	1.9	mg/Kg	☼	03/24/14 08:30	04/09/14 22:30	10
Thallium	0.75	U	2.5	0.75	mg/Kg	☼	03/24/14 08:30	04/09/14 22:30	10
Uranium	**1.3**		0.49	0.098	mg/Kg	☼	03/24/14 08:30	04/09/14 22:30	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	U	0.035	0.012	mg/Kg	☼	03/31/14 11:30	04/01/14 09:13	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**9.9**	**B**	0.22	0.044	mg/Kg	☼		04/10/14 09:28	1
Sulfate	**100**		5.4	0.54	mg/Kg	☼		04/10/14 09:28	1

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8300**		1100	110	mg/Kg	☼		04/10/14 09:56	500

Client Sample ID: NE-B-6 5.0-6.5

Lab Sample ID: 160-5993-6
Date Collected: 03/20/14 08:00
Matrix: Solid
Date Received: 03/21/14 09:00
Percent Solids: 94.3

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**49**		22	7.1	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Acetonitrile	22	U *	55	22	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Benzene	**2.1**	**J**	5.5	0.27	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-6 5.0-6.5
Date Collected: 03/20/14 08:00
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-6
Matrix: Solid
Percent Solids: 94.3

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	0.40	U	5.5	0.40	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Bromodichloromethane	0.27	U	5.5	0.27	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Bromoform	0.40	U	5.5	0.40	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Bromomethane	1.2	U *	11	1.2	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
2-Butanone (MEK)	**9.5**	**J**	22	2.1	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Carbon disulfide	0.75	U	5.5	0.75	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Carbon tetrachloride	0.56	U	5.5	0.56	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Chlorobenzene	0.41	U	5.5	0.41	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Chlorobromomethane	0.89	U	5.5	0.89	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Chloroethane	0.57	U	11	0.57	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Chloroform	0.41	U	5.5	0.41	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Chloromethane	0.71	U	11	0.71	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
2-Chlorotoluene	0.37	U	5.5	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
4-Chlorotoluene	0.41	U	5.5	0.41	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
cis-1,2-Dichloroethene	0.65	U	5.5	0.65	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
cis-1,3-Dichloropropene	0.65	U	5.5	0.65	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Cymene	0.35	U	5.5	0.35	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Dibromochloromethane	0.45	U	5.5	0.45	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Dibromomethane	1.1	U	5.5	1.1	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,2-Dichlorobenzene	0.31	U	5.5	0.31	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,3-Dichlorobenzene	0.31	U	5.5	0.31	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,4-Dichlorobenzene	0.65	U	5.5	0.65	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Dichlorodifluoromethane	1.4	U	11	1.4	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,1-Dichloroethane	0.43	U	5.5	0.43	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,2-Dichloroethane	0.95	U	5.5	0.95	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,1-Dichloroethene	1.8	U	5.5	1.8	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,2-Dichloropropane	0.41	U	5.5	0.41	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,3-Dichloropropane	0.35	U	5.5	0.35	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
2,2-Dichloropropane	0.59	U	5.5	0.59	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,1-Dichloropropene	0.33	U	5.5	0.33	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Ethanol	67	U *	270	67	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Ethylbenzene	0.33	U	5.5	0.33	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
2-Hexanone	1.9	U	22	1.9	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Isopropylbenzene	0.28	U	5.5	0.28	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Methylene Chloride	1.7	U	5.5	1.7	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Methyl iodide	1.6	U	5.5	1.6	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
4-Methyl-2-pentanone (MIBK)	0.80	U	22	0.80	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Methyl tert-butyl ether	0.52	U	5.5	0.52	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
m-Xylene & p-Xylene	0.62	U	5.5	0.62	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Naphthalene	0.53	U	5.5	0.53	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
n-Butylbenzene	0.65	U	5.5	0.65	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
N-Propylbenzene	0.35	U	5.5	0.35	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
o-Xylene	0.37	U	5.5	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
sec-Butylbenzene	0.34	U	5.5	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Styrene	0.38	U	5.5	0.38	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
tert-Butylbenzene	0.34	U	5.5	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,1,1,2-Tetrachloroethane	0.38	U	5.5	0.38	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,1,2,2-Tetrachloroethane	0.44	U	5.5	0.44	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Tetrachloroethene	0.35	U	5.5	0.35	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1

Client Sample ID: NE-B-6 5.0-6.5
Date Collected: 03/20/14 08:00
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-6
Matrix: Solid
Percent Solids: 94.3

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.76	U	5.5	0.76	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
trans-1,2-Dichloroethene	1.0	U	5.5	1.0	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
trans-1,3-Dichloropropene	0.38	U	5.5	0.38	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,2,3-Trichlorobenzene	0.48	U	5.5	0.48	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,2,4-Trichlorobenzene	0.47	U	5.5	0.47	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,1,1-Trichloroethane	0.47	U	5.5	0.47	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,1,2-Trichloroethane	0.62	U	5.5	0.62	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Trichloroethene	0.43	U	5.5	0.43	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Trichlorofluoromethane	0.55	U	5.5	0.55	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,2,3-Trichloropropane	0.61	U	5.5	0.61	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,2,4-Trimethylbenzene	0.65	U	5.5	0.65	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
1,3,5-Trimethylbenzene	0.34	U	5.5	0.34	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Vinyl acetate	0.85	U	5.5	0.85	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Vinyl chloride	0.47	U	5.5	0.47	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1
Xylenes, Total	0.93	U	11	0.93	ug/Kg	☼	03/24/14 16:13	03/24/14 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 150*	*03/24/14 16:13*	*03/24/14 21:53*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 126*	*03/24/14 16:13*	*03/24/14 21:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 127*	*03/24/14 16:13*	*03/24/14 21:53*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*03/24/14 16:13*	*03/24/14 21:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Acenaphthylene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Anthracene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Benzo[a]anthracene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Benzo[b]fluoranthene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Benzo[k]fluoranthene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Benzo[g,h,i]perylene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Benzo[a]pyrene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Chrysene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Dibenz(a,h)anthracene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Fluoranthene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Fluorene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Indeno[1,2,3-cd]pyrene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Naphthalene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Phenanthrene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1
Pyrene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*82*		*53 - 97*	*03/24/14 08:33*	*03/27/14 20:41*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*46 - 111*	*03/24/14 08:33*	*03/27/14 20:41*	*1*
Nitrobenzene-d5 (Surr)	*81*		*55 - 98*	*03/24/14 08:33*	*03/27/14 20:41*	*1*
Phenol-d5 (Surr)	*77*		*54 - 101*	*03/24/14 08:33*	*03/27/14 20:41*	*1*
Terphenyl-d14 (Surr)	*83*		*58 - 123*	*03/24/14 08:33*	*03/27/14 20:41*	*1*
2-Fluorobiphenyl (Surr)	*89*		*56 - 97*	*03/24/14 08:33*	*03/27/14 20:41*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-6 5.0-6.5
Date Collected: 03/20/14 08:00
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-6
Matrix: Solid
Percent Solids: 94.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.22	U	21	0.22	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-2	0.23	U	21	0.23	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-3	0.24	U	21	0.24	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-4	4.5	U	21	4.5	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-5	1.7	U	21	1.7	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-6	1.7	U	21	1.7	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-7	1.6	U	21	1.6	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-8	1.7	U	21	1.7	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-9	1.8	U	21	1.8	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-10	3.2	U	21	3.2	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-11	**9.3**	**J q**	21	1.8	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-12/13	1.8	U	42	1.8	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-14	1.5	U	21	1.5	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-15	2.0	U	21	2.0	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-16	0.65	U	21	0.65	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-17	0.46	U	21	0.46	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-18/30	0.39	U	42	0.39	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-19	0.51	U	21	0.51	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-20/28	**1.2**	**J**	42	0.34	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-21/33	**0.35**	**J q**	42	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-22	0.36	U	21	0.36	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-23	0.31	U	21	0.31	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-24	0.34	U	21	0.34	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-25	0.32	U	21	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-26/29	0.32	U	42	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-27	0.34	U	21	0.34	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-31	**0.59**	**J**	21	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-32	0.27	U	21	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-34	0.32	U	21	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-35	**2.2**	**J**	21	0.37	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-36	0.33	U	21	0.33	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-37	0.45	U	21	0.45	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-38	0.35	U	21	0.35	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-39	0.33	U	21	0.33	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-40/71	**0.50**	**J B**	42	0.23	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-41	0.30	U	21	0.30	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-42	0.25	U	21	0.25	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-43	0.26	U	21	0.26	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-44/47/65	**0.80**	**J q B**	63	0.22	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-45	0.26	U	21	0.26	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-46	0.27	U	21	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-48	0.23	U	21	0.23	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-49/69	**0.48**	**J q**	42	0.19	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-50/53	0.21	U	42	0.21	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-51	0.21	U	21	0.21	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-52	**1.2**	**J B**	21	0.24	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-54	0.30	U	21	0.30	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-55	0.29	U	21	0.29	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-56	0.32	U	21	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-6 5.0-6.5
Date Collected: 03/20/14 08:00
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-6
Matrix: Solid
Percent Solids: 94.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	0.29	U	21	0.29	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-58	0.29	U	21	0.29	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-59/62/75	0.17	U	63	0.17	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-60	0.30	U	21	0.30	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-61/70/74/76	**1.3**	**J**	85	0.28	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-63	0.27	U	21	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-64	**0.31**	**J q**	21	0.16	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-66	**0.82**	**J q**	21	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-67	0.27	U	21	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-68	0.26	U	21	0.26	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-72	0.28	U	21	0.28	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-73	0.18	U	21	0.18	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-77	0.41	U	2.1	0.41	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-78	0.32	U	21	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-79	0.28	U	21	0.28	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-80	0.27	U	21	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-81	0.39	U	2.1	0.39	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-82	0.45	U	21	0.45	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-83	0.48	U	21	0.48	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-84	0.40	U	21	0.40	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-85/116/117	0.30	U	63	0.30	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-86/87/97/108/119/125	0.31	U	130	0.31	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-88/91	0.34	U	42	0.34	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-89	0.38	U	21	0.38	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-90/101/113	**0.76**	**J q**	63	0.31	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-92	0.36	U	21	0.36	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-93/100	0.34	U	42	0.34	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-107/124	0.28	U	42	0.28	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-94	0.36	U	21	0.36	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-95	**0.67**	**J q**	21	0.34	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-96	0.25	U	21	0.25	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-98/102	0.32	U	42	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-99	0.36	U	21	0.36	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-103	0.32	U	21	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-104	0.23	U	21	0.23	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-105	0.32	U	2.1	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-106	0.31	U	21	0.31	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-110/115	**1.1**	**J q**	42	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-109	0.26	U	21	0.26	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-111	0.25	U	21	0.25	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-112	0.24	U	21	0.24	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-114	0.32	U	2.1	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-115	**1.1**	**J q**	42	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-118	**1.1**	**J**	2.1	0.30	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-120	0.27	U	21	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-121	0.25	U	21	0.25	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-122	0.31	U	21	0.31	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-123	0.31	U	2.1	0.31	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-126	0.38	U	2.1	0.38	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1

Client Sample ID: NE-B-6 5.0-6.5
Date Collected: 03/20/14 08:00
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-6
Matrix: Solid
Percent Solids: 94.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-127	0.31	U	21	0.31	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-128/166	0.27	U	42	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-129/138/163	**1.4**	**J**	63	0.28	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-130	0.36	U	21	0.36	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-131	0.34	U	21	0.34	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-132	0.32	U	21	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-133	0.32	U	21	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-134/143	0.32	U	42	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-135/151	0.29	U	42	0.29	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-136	0.21	U	21	0.21	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-137	0.28	U	21	0.28	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-139/140	0.27	U	42	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-141	0.30	U	21	0.30	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-142	0.31	U	21	0.31	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-144	0.28	U	21	0.28	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-145	0.20	U	21	0.20	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-146	0.30	U	21	0.30	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-147/149	**1.0**	**J B**	42	0.28	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-148	0.28	U	21	0.28	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-150	0.19	U	21	0.19	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-152	0.19	U	21	0.19	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-153/168	**0.87**	**J q**	42	0.24	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-154	0.25	U	21	0.25	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-155	0.24	U	21	0.24	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-156/157	0.40	U	4.2	0.40	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-158	0.21	U	21	0.21	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-159	0.34	U	21	0.34	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-160	0.25	U	21	0.25	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-161	0.22	U	21	0.22	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-162	0.33	U	21	0.33	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-164	0.24	U	21	0.24	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-165	0.25	U	21	0.25	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-167	0.32	U	2.1	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-169	0.37	U	2.1	0.37	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-170	0.28	U	21	0.28	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-171/173	0.25	U	42	0.25	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-172	0.26	U	21	0.26	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-174	0.26	U	21	0.26	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-175	0.36	U	21	0.36	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-176	0.24	U	21	0.24	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-177	0.26	U	21	0.26	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-178	0.38	U	21	0.38	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-179	0.27	U	21	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-180/193	**0.77**	**J q**	42	0.21	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-181	0.21	U	21	0.21	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-182	0.34	U	21	0.34	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-183	0.19	U	21	0.19	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-184	0.27	U	21	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-185	0.23	U	21	0.23	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-6 5.0-6.5
Date Collected: 03/20/14 08:00
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-6
Matrix: Solid
Percent Solids: 94.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-186	0.26	U	21	0.26	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-187	0.35	U	21	0.35	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-188	0.27	U	21	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-189	0.50	U	2.1	0.50	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-190	0.19	U	21	0.19	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-191	0.19	U	21	0.19	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-192	0.20	U	21	0.20	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-194	0.41	U	21	0.41	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-195	0.38	U	21	0.38	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-196	0.34	U	21	0.34	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-197	0.23	U	21	0.23	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-198/199	0.35	U	42	0.35	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-200	0.23	U	21	0.23	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-201	0.23	U	21	0.23	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-202	0.28	U	21	0.28	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-203	0.31	U	21	0.31	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-204	0.24	U	21	0.24	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-205	0.28	U	21	0.28	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-206	0.39	U	21	0.39	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-207	0.29	U	21	0.29	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-208	0.36	U	21	0.36	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
PCB-209	**7.4**	**J**	21	0.34	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
Total Monochlorobiphenyls	0.24	U	210	0.24	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
Total Dichlorobiphenyls	**9.3**	**J q**	210	2.1	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
Total Trichlorobiphenyls	**4.3**	**J q**	210	0.37	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
Total Tetrachlorobiphenyls	**5.4**	**J q B**	210	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
Total Pentachlorobiphenyls	**3.6**	**J q**	210	0.32	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
Total Hexachlorobiphenyls	**3.2**	**J q B**	210	0.28	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
Total Heptachlorobiphenyls	**0.77**	**J q**	210	0.27	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
Total Octachlorobiphenyls	0.41	U	210	0.41	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
Total Nonachlorobiphenyls	0.39	U	210	0.39	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1
Polychlorinated biphenyls, Total	**34**	**J q B**	210	0.50	pg/g	☼	03/24/14 14:13	04/12/14 14:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*52*		*5 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-15L	*54*		*5 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-123L	*68*		*10 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-114L	*69*		*10 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-202L	*76*		*10 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-3L	*50*		*5 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-118L	*70*		*10 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-126L	*74*		*10 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-206L	*86*		*10 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-169L	*91*		*10 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-37L	*56*		*5 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-19L	*59*		*5 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-188L	*67*		*10 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-54L	*53*		*5 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-156L/157L	*81*		*10 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*
PCB-167L	*76*		*10 - 145*	*03/24/14 14:13*	*04/12/14 14:35*	*1*

Client Sample ID: NE-B-6 5.0-6.5
Date Collected: 03/20/14 08:00
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-6
Matrix: Solid
Percent Solids: 94.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-209L	86		10 - 145	03/24/14 14:13	04/12/14 14:35	1
PCB-189L	74		10 - 145	03/24/14 14:13	04/12/14 14:35	1
PCB-105L	72		10 - 145	03/24/14 14:13	04/12/14 14:35	1
PCB-208L	84		10 - 145	03/24/14 14:13	04/12/14 14:35	1
PCB-1L	43		5 - 145	03/24/14 14:13	04/12/14 14:35	1
PCB-104L	56		10 - 145	03/24/14 14:13	04/12/14 14:35	1
PCB-81L	58		10 - 145	03/24/14 14:13	04/12/14 14:35	1
PCB-77L	59		10 - 145	03/24/14 14:13	04/12/14 14:35	1
PCB-205L	87		10 - 145	03/24/14 14:13	04/12/14 14:35	1
PCB-155L	50		10 - 145	03/24/14 14:13	04/12/14 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	56		5 - 145	03/24/14 14:13	04/12/14 14:35	1
PCB-111L	71		10 - 145	03/24/14 14:13	04/12/14 14:35	1
PCB-178L	89		10 - 145	03/24/14 14:13	04/12/14 14:35	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.021	U	1.1	0.021	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
2,3,7,8-TCDF	**0.071**	**J**	1.1	0.014	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
1,2,3,7,8-PeCDD	0.026	U	5.3	0.026	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
1,2,3,7,8-PeCDF	0.019	U	5.3	0.019	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
2,3,4,7,8-PeCDF	0.019	U	5.3	0.019	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
1,2,3,4,7,8-HxCDD	0.027	U	5.3	0.027	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
1,2,3,6,7,8-HxCDD	**0.11**	**J**	5.3	0.021	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
1,2,3,7,8,9-HxCDD	0.020	U	5.3	0.020	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
1,2,3,4,7,8-HxCDF	**0.15**	**J**	5.3	0.028	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
1,2,3,6,7,8-HxCDF	0.022	U	5.3	0.022	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
1,2,3,7,8,9-HxCDF	0.027	U	5.3	0.027	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
2,3,4,6,7,8-HxCDF	0.025	U	5.3	0.025	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
1,2,3,4,6,7,8-HpCDD	**2.3**	**J q**	5.3	0.060	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
1,2,3,4,6,7,8-HpCDF	**1.2**	**J q**	5.3	0.046	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
1,2,3,4,7,8,9-HpCDF	0.055	U	5.3	0.055	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
OCDD	**54**	**B**	11	0.17	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1
OCDF	**8.0**	**J B**	11	0.077	pg/g	☼	03/24/14 11:21	04/12/14 07:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	99		40 - 135	03/24/14 11:21	04/12/14 07:03	1
13C-2,3,7,8-TCDD	95		40 - 135	03/24/14 11:21	04/12/14 07:03	1
13C-1,2,3,7,8-PeCDD	94		40 - 135	03/24/14 11:21	04/12/14 07:03	1
13C-1,2,3,4,6,7,8-HpCDF	103		40 - 135	03/24/14 11:21	04/12/14 07:03	1
13C-1,2,3,7,8-PeCDF	92		40 - 135	03/24/14 11:21	04/12/14 07:03	1
13C-2,3,7,8-TCDF	93		40 - 135	03/24/14 11:21	04/12/14 07:03	1
13C-1,2,3,4,6,7,8-HpCDD	108		40 - 135	03/24/14 11:21	04/12/14 07:03	1
13C-OCDD	100		40 - 135	03/24/14 11:21	04/12/14 07:03	1
13C-1,2,3,4,7,8-HxCDF	96		40 - 135	03/24/14 11:21	04/12/14 07:03	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6700**		200	42	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Antimony	3.0	U	9.8	3.0	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-6 5.0-6.5
Date Collected: 03/20/14 08:00
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-6
Matrix: Solid
Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	120		49	1.1	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Beryllium	0.73	U	4.9	0.73	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Cadmium	0.33	U	4.9	0.33	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Calcium	27000		2400	66	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Chromium	14		9.8	1.3	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Cobalt	11	J	49	1.4	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Copper	16	J	24	2.4	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Iron	12000		98	19	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Lead	14		9.8	1.3	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Magnesium	9400		980	31	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Manganese	340		9.8	0.78	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Nickel	18	J	39	1.1	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Potassium	1600	J	4900	710	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Selenium	2.0	U	15	2.0	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Silver	0.68	U	9.8	0.68	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Sodium	360	J	980	74	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Titanium	640		20	1.3	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Vanadium	32	J	49	4.9	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10
Zinc	47	J B	49	5.5	mg/Kg	☼	03/24/14 08:27	04/09/14 16:28	10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		5.0	1.3	mg/Kg	☼	03/24/14 08:30	04/09/14 22:37	10
Niobium	1.9	U	13	1.9	mg/Kg	☼	03/24/14 08:30	04/09/14 22:37	10
Thallium	0.77	U	2.5	0.77	mg/Kg	☼	03/24/14 08:30	04/09/14 22:37	10
Uranium	1.2		0.50	0.10	mg/Kg	☼	03/24/14 08:30	04/09/14 22:37	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.032	0.011	mg/Kg	☼	03/31/14 11:30	04/01/14 09:14	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.62	B	0.21	0.043	mg/Kg	☼		04/10/14 10:37	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	690		110	11	mg/Kg	☼		04/10/14 10:51	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9400		1100	110	mg/Kg	☼		04/10/14 11:05	500

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	26.9		6.10	6.83	10.0	4.73	pCi/g	03/28/14 09:21	03/31/14 11:37	1
Gross Beta	28.4		3.47	4.49	10.0	2.75	pCi/g	03/28/14 09:21	03/31/14 11:37	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-6 5.0-6.5
Date Collected: 03/20/14 08:00
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-6
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium 228	**1.70**		0.243	0.299		0.209	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Bismuth-212	**2.04**		0.685	0.717		0.543	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Bismuth-214	**0.822**		0.187	0.206		0.157	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Bismuth-210M	0.0568	U	0.0669	0.0672		0.110	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Cesium-134	0.0366	U	0.0193	0.0197		0.0908	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Cesium-137	0.0108	U	0.0457	0.0457		0.0806	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Cobalt-57	-0.0174	U	0.0355	0.0356		0.0595	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Cobalt-60	-0.00246	U	0.0485	0.0485		0.0901	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Lead-212	**1.41**		0.161	0.243		0.184	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Lead-214	**0.979**		0.183	0.209		0.198	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Potassium-40	**23.9**		2.02	3.17		0.682	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Protactinium-231	0.979	U	0.757	0.765		2.40	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Protactinium-234	-0.0237	U	0.0393	0.0394		0.370	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Radium-224	**1.93**		1.21	1.23		1.92	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Thallium-208	**0.583**		0.0985	0.116		0.0763	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Thorium-227	-0.0267	U	0.923	0.923		1.54	pCi/g	03/25/14 17:06	04/15/14 19:48	1
Thorium-234	0.554	U	0.750	0.752		2.17	pCi/g	03/25/14 17:06	04/15/14 19:48	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.27**		0.231	0.258	1.00	0.143	pCi/g	03/25/14 12:45	04/17/14 06:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*112*	*X*	*40 - 110*	*03/25/14 12:45*	*04/17/14 06:53*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.995**		0.278	0.293	1.00	0.361	pCi/g	03/25/14 12:54	04/16/14 11:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*112*	*X*	*40 - 110*	*03/25/14 12:54*	*04/16/14 11:14*	*1*
Y Carrier	*91.2*		*40 - 110*	*03/25/14 12:54*	*04/16/14 11:14*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**1.78**		0.310	0.345	1.00	0.116	pCi/g	03/28/14 12:40	04/09/14 01:27	1
Thorium-230	**1.07**		0.238	0.254	1.00	0.0601	pCi/g	03/28/14 12:40	04/09/14 01:27	1
Thorium-232	**1.68**		0.297	0.329	1.00	0.0598	pCi/g	03/28/14 12:40	04/09/14 01:27	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*69.6*		*30 - 110*	*03/28/14 12:40*	*04/09/14 01:27*	*1*

Client Sample ID: NE-B-6 5.0-6.5

Lab Sample ID: 160-5993-6

Date Collected: 03/20/14 08:00

Matrix: Solid

Date Received: 03/21/14 09:00

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.757**		0.184	0.194	1.00	0.0709	pCi/g	03/28/14 12:40	04/09/14 21:51	1
Uranium-235/236	0.0222	U	0.0392	0.0393	1.00	0.0708	pCi/g	03/28/14 12:40	04/09/14 21:51	1
Uranium-238	**0.591**		0.162	0.170	1.00	0.0708	pCi/g	03/28/14 12:40	04/09/14 21:51	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*79.9*		*30 - 110*	*03/28/14 12:40*	*04/09/14 21:51*	*1*

Client Sample ID: NE-B-6 0-0.5

Lab Sample ID: 160-5993-7

Date Collected: 03/20/14 07:15

Matrix: Solid

Date Received: 03/21/14 09:00

Percent Solids: 93.8

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**67**		19	6.1	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Acetonitrile	19	U *	47	19	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Benzene	0.24	U	4.7	0.24	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Bromobenzene	0.35	U	4.7	0.35	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Bromodichloromethane	0.24	U	4.7	0.24	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Bromoform	0.35	U	4.7	0.35	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Bromomethane	1.0	U *	9.4	1.0	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
2-Butanone (MEK)	**16**	**J**	19	1.8	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Carbon disulfide	0.65	U	4.7	0.65	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Carbon tetrachloride	0.48	U	4.7	0.48	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Chlorobenzene	0.36	U	4.7	0.36	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Chlorobromomethane	0.77	U	4.7	0.77	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Chloroethane	0.49	U	9.4	0.49	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Chloroform	0.36	U	4.7	0.36	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Chloromethane	0.61	U	9.4	0.61	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
2-Chlorotoluene	0.32	U	4.7	0.32	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
4-Chlorotoluene	0.36	U	4.7	0.36	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
cis-1,2-Dichloroethene	0.56	U	4.7	0.56	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
cis-1,3-Dichloropropene	0.56	U	4.7	0.56	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Cymene	0.30	U	4.7	0.30	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Dibromochloromethane	0.39	U	4.7	0.39	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Dibromomethane	0.91	U	4.7	0.91	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,2-Dichlorobenzene	0.26	U	4.7	0.26	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,3-Dichlorobenzene	0.26	U	4.7	0.26	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,4-Dichlorobenzene	0.56	U	4.7	0.56	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Dichlorodifluoromethane	1.2	U	9.4	1.2	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,1-Dichloroethane	0.37	U	4.7	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,2-Dichloroethane	0.82	U	4.7	0.82	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,1-Dichloroethene	1.5	U	4.7	1.5	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,2-Dichloropropane	0.36	U	4.7	0.36	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,3-Dichloropropane	0.30	U	4.7	0.30	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
2,2-Dichloropropane	0.51	U	4.7	0.51	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,1-Dichloropropene	0.28	U	4.7	0.28	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Ethanol	58	U *	240	58	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Ethylbenzene	0.28	U	4.7	0.28	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-6 0-0.5
Date Collected: 03/20/14 07:15
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-7
Matrix: Solid
Percent Solids: 93.8

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	**4.7**	**J**	19	1.7	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Isopropylbenzene	0.24	U	4.7	0.24	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Methylene Chloride	1.5	U	4.7	1.5	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Methyl iodide	1.4	U	4.7	1.4	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
4-Methyl-2-pentanone (MIBK)	0.69	U	19	0.69	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Methyl tert-butyl ether	0.45	U	4.7	0.45	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
m-Xylene & p-Xylene	0.54	U	4.7	0.54	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Naphthalene	**4.4**	**J**	4.7	0.46	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
n-Butylbenzene	0.56	U	4.7	0.56	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
N-Propylbenzene	0.30	U	4.7	0.30	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
o-Xylene	0.32	U	4.7	0.32	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
sec-Butylbenzene	0.29	U	4.7	0.29	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Styrene	0.33	U	4.7	0.33	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
tert-Butylbenzene	0.29	U	4.7	0.29	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,1,1,2-Tetrachloroethane	0.33	U	4.7	0.33	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,1,2,2-Tetrachloroethane	0.38	U	4.7	0.38	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Tetrachloroethene	0.30	U	4.7	0.30	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Toluene	0.66	U	4.7	0.66	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
trans-1,2-Dichloroethene	0.88	U	4.7	0.88	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
trans-1,3-Dichloropropene	0.33	U	4.7	0.33	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,2,3-Trichlorobenzene	0.41	U	4.7	0.41	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,2,4-Trichlorobenzene	0.40	U	4.7	0.40	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,1,1-Trichloroethane	0.40	U	4.7	0.40	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,1,2-Trichloroethane	0.54	U	4.7	0.54	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Trichloroethene	0.37	U	4.7	0.37	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Trichlorofluoromethane	0.47	U	4.7	0.47	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,2,3-Trichloropropane	0.53	U	4.7	0.53	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,2,4-Trimethylbenzene	0.56	U	4.7	0.56	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
1,3,5-Trimethylbenzene	0.29	U	4.7	0.29	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Vinyl acetate	0.73	U	4.7	0.73	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Vinyl chloride	0.40	U	4.7	0.40	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1
Xylenes, Total	0.80	U	9.4	0.80	ug/Kg	☼	03/24/14 16:13	03/24/14 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 150*	*03/24/14 16:13*	*03/24/14 22:19*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 126*	*03/24/14 16:13*	*03/24/14 22:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 127*	*03/24/14 16:13*	*03/24/14 22:19*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*03/24/14 16:13*	*03/24/14 22:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Acenaphthylene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Anthracene	**460**		350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Benzo[a]anthracene	**1300**		350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Benzo[b]fluoranthene	**1600**		350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Benzo[k]fluoranthene	**670**		350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Benzo[g,h,i]perylene	**280**	**J**	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Benzo[a]pyrene	**680**		350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Chrysene	**2100**		350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1

Client Sample ID: NE-B-6 0-0.5
Date Collected: 03/20/14 07:15
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-7
Matrix: Solid
Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Fluoranthene	**3900**		350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Fluorene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Indeno[1,2,3-cd]pyrene	**320**	**J**	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Naphthalene	35	U	350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Phenanthrene	**2600**		350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1
Pyrene	**3300**		350	35	ug/Kg	☼	03/24/14 08:33	03/27/14 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*81*		*53 - 97*	*03/24/14 08:33*	*03/27/14 21:18*	*1*
2,4,6-Tribromophenol (Surr)	*91*		*46 - 111*	*03/24/14 08:33*	*03/27/14 21:18*	*1*
Nitrobenzene-d5 (Surr)	*82*		*55 - 98*	*03/24/14 08:33*	*03/27/14 21:18*	*1*
Phenol-d5 (Surr)	*77*		*54 - 101*	*03/24/14 08:33*	*03/27/14 21:18*	*1*
Terphenyl-d14 (Surr)	*85*		*58 - 123*	*03/24/14 08:33*	*03/27/14 21:18*	*1*
2-Fluorobiphenyl (Surr)	*91*		*56 - 97*	*03/24/14 08:33*	*03/27/14 21:18*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**54**		21	0.37	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-2	**29**		21	0.37	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-3	**87**		21	0.38	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-4	**25**		21	2.8	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-5	2.7	U	21	2.7	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-6	**21**		21	2.7	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-7	**4.2**	**J**	21	2.6	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-8	**96**		21	2.7	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-9	**10**	**J**	21	2.9	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-10	2.0	U	21	2.0	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-11	**20**	**J**	21	2.8	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-12/13	**52**		43	2.9	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-14	2.4	U	21	2.4	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-15	**650**		21	3.3	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-16	**13**	**J**	21	0.53	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-17	**12**	**J**	21	0.37	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-18/30	**15**	**J**	43	0.32	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-19	**2.3**	**J**	21	0.46	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-20/28	**760**		43	3.6	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-21/33	**46**		43	3.4	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-22	**36**		21	3.9	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-23	3.3	U	21	3.3	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-24	**0.76**	**J**	21	0.27	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-25	**12**	**J**	21	3.4	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-26/29	**11**	**J**	43	3.4	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-27	**1.3**	**J**	21	0.28	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-31	**100**		21	3.4	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-32	**5.1**	**J**	21	0.22	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-34	3.4	U	21	3.4	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-35	**16**	**J**	21	4.0	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-36	3.5	U	21	3.5	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-37	**430**		21	4.3	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-6 0-0.5
Date Collected: 03/20/14 07:15
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-7
Matrix: Solid
Percent Solids: 93.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-38	3.7	U	21	3.7	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-39	3.5	U	21	3.5	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-40/71	**32**	**J B**	43	0.48	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-41	**7.0**	**J**	21	0.63	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-42	**19**	**J**	21	0.54	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-43	0.55	U	21	0.55	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-44/47/65	**220**	**B**	64	0.46	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-45	**4.5**	**J**	21	0.54	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-46	0.58	U	21	0.58	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-48	**13**	**J**	21	0.49	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-49/69	**51**		43	0.40	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-50/53	**5.6**	**J**	43	0.45	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-51	**3.1**	**J**	21	0.45	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-52	**130**	**B**	21	0.51	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-54	0.26	U	21	0.26	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-55	3.5	U	21	3.5	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-56	**57**		21	3.8	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-57	3.5	U	21	3.5	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-58	3.5	U	21	3.5	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-59/62/75	**19**	**J**	64	0.36	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-60	**180**		21	3.7	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-61/70/74/76	**760**		85	3.4	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-63	**8.2**	**J**	21	3.3	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-64	**47**		21	0.34	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-66	**810**		21	3.9	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-67	**6.5**	**J**	21	3.3	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-68	3.1	U	21	3.1	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-72	3.4	U	21	3.4	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-73	0.38	U	21	0.38	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-77	**170**	**G**	4.2	4.2	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-78	4.0	U	21	4.0	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-79	3.4	U	21	3.4	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-80	3.3	U	21	3.3	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-81	**15**	**G**	4.1	4.1	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-82	**64**	**G**	24	24	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-83	26	U G	26	26	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-84	**85**	**G**	22	22	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-85/116/117	**180**		64	16	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-86/87/97/108/119/125	**350**		130	16	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-88/91	**35**	**J**	43	18	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-89	21	U	21	21	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-90/101/113	**430**		64	17	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-92	**58**		21	19	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-93/100	18	U	43	18	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-107/124	**26**	**J**	43	15	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-94	19	U	21	19	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-95	**210**		21	18	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-96	**1.8**	**J**	21	0.20	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-98/102	17	U	43	17	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-6 0-0.5
Date Collected: 03/20/14 07:15
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-7
Matrix: Solid
Percent Solids: 93.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-99	**650**		21	19	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-103	17	U	21	17	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-104	**1.8**	**J**	21	0.20	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-105	**690**	**G**	17	17	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-106	17	U	21	17	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-110/115	**680**		43	15	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-109	**41**		21	14	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-111	13	U	21	13	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-112	13	U	21	13	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-114	**59**	**G**	17	17	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-115	**680**		43	15	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-118	**2000**	**G**	16	16	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-120	14	U	21	14	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-121	13	U	21	13	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-122	17	U	21	17	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-123	**54**	**G**	17	17	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-126	**33**	**G**	19	19	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-127	16	U	21	16	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-128/166	**210**		43	14	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-129/138/163	**1500**		64	14	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-130	**46**		21	18	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-131	17	U	21	17	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-132	**190**		21	16	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-133	16	U	21	16	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-134/143	**29**	**J**	43	16	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-135/151	**110**		43	14	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-136	**36**		21	10	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-137	**110**		21	14	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-139/140	**30**	**J**	43	14	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-141	**130**		21	15	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-142	16	U	21	16	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-144	**24**		21	14	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-145	10	U	21	10	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-146	**97**		21	15	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-147/149	**350**	**B**	43	14	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-148	14	U	21	14	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-150	9.4	U	21	9.4	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-152	9.7	U	21	9.7	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-153/168	**2000**		43	12	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-154	**19**	**J**	21	12	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-155	11	U	21	11	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-156/157	**440**	**G**	5.4	5.4	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-158	**230**		21	11	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-159	4.5	U	21	4.5	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-160	12	U	21	12	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-161	11	U	21	11	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-162	4.3	U	21	4.3	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-164	**49**		21	12	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-165	12	U	21	12	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-6 0-0.5
Date Collected: 03/20/14 07:15
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-7
Matrix: Solid
Percent Solids: 93.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-167	240	G	4.2	4.2	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-169	5.0	U G	5.0	5.0	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-170	680		21	2.2	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-171/173	160		43	2.0	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-172	70		21	2.1	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-174	210		21	2.1	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-175	18	J	21	0.52	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-176	21		21	0.35	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-177	110		21	2.1	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-178	34		21	0.55	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-179	44		21	0.38	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-180/193	2800		43	1.7	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-181	24		21	1.7	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-182	24		21	0.49	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-183	420		21	1.5	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-184	23		21	0.39	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-185	26		21	1.8	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-186	2.5	J	21	0.37	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-187	240		21	0.50	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-188	7.6	J	21	0.36	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-189	99		2.1	0.78	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-190	220		21	1.5	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-191	78		21	1.5	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-192	1.6	U	21	1.6	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-194	1600		21	1.9	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-195	170		21	1.8	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-196	500		21	1.7	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-197	66		21	1.1	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-198/199	310		43	1.8	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-200	41		21	1.2	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-201	46		21	1.1	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-202	30		21	1.2	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-203	1100		21	1.6	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-204	41		21	1.2	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-205	110		21	1.5	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-206	4600	E	21	2.1	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-207	510		21	1.4	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-208	310		21	1.6	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
PCB-209	26000	E	21	2.5	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
Total Monochlorobiphenyls	170	J	210	0.38	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
Total Dichlorobiphenyls	880		210	2.7	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
Total Trichlorobiphenyls	1500		210	2.5	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
Total Tetrachlorobiphenyls	2600	B	210	2.0	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
Total Pentachlorobiphenyls	5600		210	16	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
Total Hexachlorobiphenyls	5800	B	210	12	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
Total Heptachlorobiphenyls	5300		210	1.2	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
Total Octachlorobiphenyls	4000		210	1.5	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
Total Nonachlorobiphenyls	5400		210	1.7	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1
Polychlorinated biphenyls, Total	57000	B	210	4.3	pg/g	☼	03/24/14 14:13	04/12/14 15:50	1

Client Sample ID: NE-B-6 0-0.5
Date Collected: 03/20/14 07:15
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-7
Matrix: Solid
Percent Solids: 93.8

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-4L	66		5 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-15L	71		5 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-123L	84		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-114L	83		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-202L	90		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-3L	63		5 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-118L	86		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-126L	91		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-206L	82		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-169L	104		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-37L	74		5 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-19L	69		5 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-188L	83		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-54L	70		5 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-156L/157L	96		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-167L	93		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-209L	81		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-189L	81		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-105L	87		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-208L	92		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-1L	53		5 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-104L	68		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-81L	75		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-77L	75		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-205L	83		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-155L	68		10 - 145	03/24/14 14:13	04/12/14 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	70		5 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-111L	86		10 - 145	03/24/14 14:13	04/12/14 15:50	1
PCB-178L	105		10 - 145	03/24/14 14:13	04/12/14 15:50	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.29	J q	1.1	0.029	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
1,2,3,7,8-PeCDD	0.53	J	5.3	0.057	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
1,2,3,7,8-PeCDF	31		5.3	0.080	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
2,3,4,7,8-PeCDF	20	B	5.3	0.082	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
1,2,3,4,7,8-HxCDD	0.27	J q	5.3	0.053	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
1,2,3,6,7,8-HxCDD	0.68	J q	5.3	0.041	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
1,2,3,7,8,9-HxCDD	1.1	J	5.3	0.039	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
1,2,3,4,7,8-HxCDF	100		5.3	0.22	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
1,2,3,6,7,8-HxCDF	29		5.3	0.18	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
1,2,3,7,8,9-HxCDF	3.6	J	5.3	0.22	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
2,3,4,6,7,8-HxCDF	10		5.3	0.20	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
1,2,3,4,6,7,8-HpCDD	8.9		5.3	0.099	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
1,2,3,4,6,7,8-HpCDF	140		5.3	0.22	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
1,2,3,4,7,8,9-HpCDF	39		5.3	0.27	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
OCDD	73	B	11	0.17	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1
OCDF	670	B	11	0.38	pg/g	☼	03/24/14 11:21	04/12/14 07:45	1

Client Sample ID: NE-B-6 0-0.5
Date Collected: 03/20/14 07:15
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-7
Matrix: Solid
Percent Solids: 93.8

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	94		40 - 135	03/24/14 11:21	04/12/14 07:45	1
13C-2,3,7,8-TCDD	93		40 - 135	03/24/14 11:21	04/12/14 07:45	1
13C-1,2,3,7,8-PeCDD	98		40 - 135	03/24/14 11:21	04/12/14 07:45	1
13C-1,2,3,4,6,7,8-HpCDF	93		40 - 135	03/24/14 11:21	04/12/14 07:45	1
13C-1,2,3,7,8-PeCDF	95		40 - 135	03/24/14 11:21	04/12/14 07:45	1
13C-1,2,3,4,6,7,8-HpCDD	96		40 - 135	03/24/14 11:21	04/12/14 07:45	1
13C-OCDD	82		40 - 135	03/24/14 11:21	04/12/14 07:45	1
13C-1,2,3,4,7,8-HxCDF	96		40 - 135	03/24/14 11:21	04/12/14 07:45	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	15		1.1	0.19	pg/g	☼	03/24/14 11:21	04/15/14 20:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	90		40 - 135	03/24/14 11:21	04/15/14 20:52	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7700		200	43	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Antimony	3.1	U	10	3.1	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Barium	130		51	1.1	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Beryllium	0.76	U	5.1	0.76	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Cadmium	0.34	U	5.1	0.34	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Calcium	32000		2500	68	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Chromium	17		10	1.4	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Cobalt	11	J	51	1.5	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Copper	20	J	25	2.5	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Iron	12000		100	20	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Lead	14		10	1.3	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Magnesium	15000		1000	32	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Manganese	420		10	0.81	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Nickel	18	J	41	1.2	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Potassium	1600	J	5100	730	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Selenium	2.1	U	15	2.1	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Silver	0.71	U	10	0.71	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Sodium	680	J	1000	77	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Titanium	660		20	1.3	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Vanadium	31	J	51	5.1	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10
Zinc	54	B	51	5.7	mg/Kg	☼	03/24/14 08:27	04/09/14 16:32	10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		5.1	1.3	mg/Kg	☼	03/24/14 08:32	04/09/14 22:44	10
Niobium	3.0	J	13	1.9	mg/Kg	☼	03/24/14 08:32	04/09/14 22:44	10
Thallium	0.77	U	2.5	0.77	mg/Kg	☼	03/24/14 08:32	04/09/14 22:44	10
Uranium	1.7		0.51	0.10	mg/Kg	☼	03/24/14 08:32	04/09/14 22:44	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.032	0.011	mg/Kg	☼	03/31/14 11:30	04/01/14 09:16	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-6 0-0.5
Date Collected: 03/20/14 07:15
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-7
Matrix: Solid
Percent Solids: 93.8

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	6.2	B	0.21	0.043	mg/Kg	☼		04/10/14 11:19	1
Sulfate	170		5.4	0.54	mg/Kg	☼		04/10/14 11:19	1

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22000		1100	110	mg/Kg	☼		04/10/14 11:47	500

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	24.5		7.15	7.68	10.0	6.80	pCi/g	03/28/14 09:21	03/31/14 11:37	1
Gross Beta	22.5		4.16	4.73	10.0	4.20	pCi/g	03/28/14 09:21	03/31/14 11:37	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium 228	1.57		0.230	0.280		0.176	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Bismuth-212	3.02		0.951	1.00		0.725	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Bismuth-214	1.56		0.200	0.257		0.149	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Bismuth-210M	0.00202	U	0.0783	0.0783		0.135	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Cesium-134	0.0302	U	0.0218	0.0220		0.277	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Cesium-137	-0.000803	U	0.0601	0.0601		0.106	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Cobalt-57	-0.00529	U	0.0103	0.0103		0.0661	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Cobalt-60	-0.0212	U	0.0524	0.0524		0.0916	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Lead-212	1.82		0.155	0.282		0.131	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Lead-214	1.86		0.178	0.263		0.157	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Potassium-40	20.7		1.87	2.83		0.782	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Protactinium-231	0.603	U	0.376	0.382		2.60	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Protactinium-234	0.0418	U	0.207	0.207		0.243	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Radium-224	1.88	U	1.41	1.43		2.28	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Thallium-208	0.555		0.0996	0.115		0.0862	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Thorium-227	0.119	U	0.214	0.215		0.388	pCi/g	03/25/14 17:06	04/15/14 19:49	1
Thorium-234	0.675	U	0.727	0.730		2.52	pCi/g	03/25/14 17:06	04/15/14 19:49	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.41		0.234	0.266	1.00	0.143	pCi/g	03/25/14 12:45	04/17/14 06:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*108*		*40 - 110*	*03/25/14 12:45*	*04/17/14 06:53*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.991		0.269	0.284	1.00	0.344	pCi/g	03/25/14 12:54	04/16/14 11:15	1

Client Sample ID: NE-B-6 0-0.5
Date Collected: 03/20/14 07:15
Date Received: 03/21/14 09:00

Lab Sample ID: 160-5993-7
Matrix: Solid

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110	03/25/14 12:54	04/16/14 11:15	1
Y Carrier	84.7		40 - 110	03/25/14 12:54	04/16/14 11:15	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**1.47**		0.248	0.277	1.00	0.0818	pCi/g	03/28/14 12:40	04/09/14 01:27	1
Thorium-230	**1.01**		0.205	0.222	1.00	0.0554	pCi/g	03/28/14 12:40	04/09/14 01:27	1
Thorium-232	**1.51**		0.250	0.280	1.00	0.0309	pCi/g	03/28/14 12:40	04/09/14 01:27	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	89.0		30 - 110	03/28/14 12:40	04/09/14 01:27	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.862**		0.189	0.202	1.00	0.0468	pCi/g	03/28/14 12:40	04/09/14 21:51	1
Uranium-235/236	0.0360	U	0.0446	0.0447	1.00	0.0582	pCi/g	03/28/14 12:40	04/09/14 21:51	1
Uranium-238	**0.870**		0.189	0.203	1.00	0.0467	pCi/g	03/28/14 12:40	04/09/14 21:51	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	89.1		30 - 110	03/28/14 12:40	04/09/14 21:51	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 160-112057/1-A
Matrix: Solid
Analysis Batch: 112557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112057

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.5	U	20	6.5	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Acetonitrile	20	U	50	20	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Benzene	0.25	U	5.0	0.25	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Bromobenzene	0.37	U	5.0	0.37	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Bromodichloromethane	0.25	U	5.0	0.25	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Bromoform	0.37	U	5.0	0.37	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Bromomethane	1.1	U	10	1.1	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
2-Butanone (MEK)	1.9	U	20	1.9	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Carbon disulfide	0.69	U	5.0	0.69	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Carbon tetrachloride	0.51	U	5.0	0.51	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Chlorobenzene	0.38	U	5.0	0.38	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Chlorobromomethane	0.82	U	5.0	0.82	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Chloroethane	0.52	U	10	0.52	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Chloroform	0.38	U	5.0	0.38	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Chloromethane	0.65	U	10	0.65	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
2-Chlorotoluene	0.34	U	5.0	0.34	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
4-Chlorotoluene	0.38	U	5.0	0.38	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
cis-1,2-Dichloroethene	0.60	U	5.0	0.60	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
cis-1,3-Dichloropropene	0.60	U	5.0	0.60	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Cymene	0.32	U	5.0	0.32	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Dibromochloromethane	0.41	U	5.0	0.41	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Dibromomethane	0.97	U	5.0	0.97	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,2-Dichlorobenzene	0.28	U	5.0	0.28	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,4-Dichlorobenzene	0.60	U	5.0	0.60	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Dichlorodifluoromethane	1.3	U	10	1.3	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,1-Dichloroethane	0.39	U	5.0	0.39	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,2-Dichloroethane	0.87	U	5.0	0.87	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,1-Dichloroethene	1.6	U	5.0	1.6	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,2-Dichloropropane	0.38	U	5.0	0.38	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,3-Dichloropropane	0.32	U	5.0	0.32	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
2,2-Dichloropropane	0.54	U	5.0	0.54	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,1-Dichloropropene	0.30	U	5.0	0.30	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Ethanol	61	U	250	61	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Ethylbenzene	0.30	U	5.0	0.30	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
2-Hexanone	1.8	U	20	1.8	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Isopropylbenzene	0.26	U	5.0	0.26	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Methylene Chloride	1.6	U	5.0	1.6	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Methyl iodide	1.5	U	5.0	1.5	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
4-Methyl-2-pentanone (MIBK)	0.73	U	20	0.73	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Methyl tert-butyl ether	0.48	U	5.0	0.48	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
m-Xylene & p-Xylene	0.57	U	5.0	0.57	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Naphthalene	0.49	U	5.0	0.49	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
n-Butylbenzene	0.60	U	5.0	0.60	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
N-Propylbenzene	0.32	U	5.0	0.32	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
o-Xylene	0.34	U	5.0	0.34	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
sec-Butylbenzene	0.31	U	5.0	0.31	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Styrene	0.35	U	5.0	0.35	ug/Kg		03/24/14 07:10	03/24/14 08:50	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-112057/1-A
Matrix: Solid
Analysis Batch: 112557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112057

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.31	U	5.0	0.31	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,1,1,2-Tetrachloroethane	0.35	U	5.0	0.35	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,1,2,2-Tetrachloroethane	0.40	U	5.0	0.40	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Tetrachloroethene	0.32	U	5.0	0.32	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Toluene	0.70	U	5.0	0.70	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
trans-1,2-Dichloroethene	0.94	U	5.0	0.94	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
trans-1,3-Dichloropropene	0.35	U	5.0	0.35	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,2,3-Trichlorobenzene	0.44	U	5.0	0.44	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,2,4-Trichlorobenzene	0.43	U	5.0	0.43	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,1,1-Trichloroethane	0.43	U	5.0	0.43	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,1,2-Trichloroethane	0.57	U	5.0	0.57	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Trichloroethene	0.39	U	5.0	0.39	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Trichlorofluoromethane	0.50	U	5.0	0.50	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,2,3-Trichloropropane	0.56	U	5.0	0.56	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,2,4-Trimethylbenzene	0.60	U	5.0	0.60	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
1,3,5-Trimethylbenzene	0.31	U	5.0	0.31	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Vinyl acetate	0.78	U	5.0	0.78	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Vinyl chloride	0.43	U	5.0	0.43	ug/Kg		03/24/14 07:10	03/24/14 08:50	1
Xylenes, Total	0.85	U	10	0.85	ug/Kg		03/24/14 07:10	03/24/14 08:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*63 - 150*	*03/24/14 07:10*	*03/24/14 08:50*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 126*	*03/24/14 07:10*	*03/24/14 08:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 127*	*03/24/14 07:10*	*03/24/14 08:50*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*	*03/24/14 07:10*	*03/24/14 08:50*	*1*

Lab Sample ID: LCS 160-112057/2-A
Matrix: Solid
Analysis Batch: 112557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	51.9		ug/Kg		104	59 - 129
Acetonitrile	500	497		ug/Kg		99	70 - 128
Benzene	50.0	53.3		ug/Kg		107	80 - 120
Bromobenzene	50.0	50.9		ug/Kg		102	80 - 120
Bromodichloromethane	50.0	52.8		ug/Kg		106	80 - 120
Bromoform	50.0	51.2		ug/Kg		102	84 - 126
Bromomethane	50.0	63.0		ug/Kg		126	74 - 128
2-Butanone (MEK)	50.0	52.9		ug/Kg		106	61 - 134
Carbon disulfide	50.0	57.0		ug/Kg		114	79 - 121
Carbon tetrachloride	50.0	54.7		ug/Kg		109	80 - 125
Chlorobenzene	50.0	52.7		ug/Kg		105	80 - 120
Chlorobromomethane	50.0	52.8		ug/Kg		106	80 - 120
Chloroethane	50.0	57.6		ug/Kg		115	73 - 129
Chloroform	50.0	53.0		ug/Kg		106	80 - 120
Chloromethane	50.0	55.5		ug/Kg		111	70 - 129
2-Chlorotoluene	50.0	56.6		ug/Kg		113	80 - 120
4-Chlorotoluene	50.0	54.6		ug/Kg		109	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-112057/2-A
Matrix: Solid
Analysis Batch: 112557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	50.0	53.7		ug/Kg		107	80 - 120
cis-1,3-Dichloropropene	50.0	53.1		ug/Kg		106	80 - 125
Cymene	50.0	57.7		ug/Kg		115	82 - 124
Dibromochloromethane	50.0	53.6		ug/Kg		107	80 - 120
Dibromomethane	50.0	51.7		ug/Kg		103	80 - 120
1,2-Dichlorobenzene	50.0	52.0		ug/Kg		104	80 - 120
1,3-Dichlorobenzene	50.0	52.4		ug/Kg		105	80 - 120
1,4-Dichlorobenzene	50.0	52.4		ug/Kg		105	80 - 120
Dichlorodifluoromethane	50.0	63.4	*	ug/Kg		127	73 - 124
1,1-Dichloroethane	50.0	53.1		ug/Kg		106	80 - 120
1,2-Dichloroethane	50.0	52.1		ug/Kg		104	76 - 125
1,1-Dichloroethene	50.0	54.8		ug/Kg		110	80 - 120
1,2-Dichloropropane	50.0	53.4		ug/Kg		107	80 - 120
1,3-Dichloropropane	50.0	53.3		ug/Kg		107	80 - 120
2,2-Dichloropropane	50.0	54.4		ug/Kg		109	78 - 130
1,1-Dichloropropene	50.0	55.1		ug/Kg		110	80 - 120
Ethylbenzene	50.0	55.2		ug/Kg		110	80 - 120
2-Hexanone	50.0	47.3		ug/Kg		95	71 - 127
Isopropylbenzene	50.0	57.9		ug/Kg		116	80 - 120
Methylene Chloride	50.0	53.4		ug/Kg		107	80 - 120
Methyl iodide	50.0	54.7		ug/Kg		109	77 - 124
4-Methyl-2-pentanone (MIBK)	50.0	49.5		ug/Kg		99	75 - 127
Methyl tert-butyl ether	50.0	51.7		ug/Kg		103	83 - 124
Naphthalene	50.0	55.6		ug/Kg		111	58 - 140
n-Butylbenzene	50.0	58.8		ug/Kg		118	78 - 123
N-Propylbenzene	50.0	58.3		ug/Kg		117	82 - 123
sec-Butylbenzene	50.0	57.1		ug/Kg		114	81 - 121
Styrene	50.0	55.5		ug/Kg		111	80 - 120
tert-Butylbenzene	50.0	57.1		ug/Kg		114	80 - 120
1,1,1,2-Tetrachloroethane	50.0	53.5		ug/Kg		107	80 - 120
1,1,2,2-Tetrachloroethane	50.0	52.4		ug/Kg		105	78 - 121
Tetrachloroethene	50.0	53.6		ug/Kg		107	80 - 120
Toluene	50.0	54.5		ug/Kg		109	80 - 120
trans-1,2-Dichloroethene	50.0	53.9		ug/Kg		108	80 - 120
trans-1,3-Dichloropropene	50.0	53.7		ug/Kg		107	82 - 124
1,2,3-Trichlorobenzene	50.0	53.1		ug/Kg		106	52 - 140
1,2,4-Trichlorobenzene	50.0	54.7		ug/Kg		109	75 - 124
1,1,1-Trichloroethane	50.0	54.8		ug/Kg		110	81 - 124
1,1,2-Trichloroethane	50.0	52.3		ug/Kg		105	80 - 120
Trichloroethene	50.0	52.1		ug/Kg		104	80 - 120
Trichlorofluoromethane	50.0	56.6		ug/Kg		113	77 - 132
1,2,3-Trichloropropane	50.0	48.8		ug/Kg		98	77 - 120
1,2,4-Trimethylbenzene	50.0	56.3		ug/Kg		113	85 - 123
1,3,5-Trimethylbenzene	50.0	57.6		ug/Kg		115	80 - 120
Vinyl acetate	50.0	58.9		ug/Kg		118	67 - 134
Vinyl chloride	50.0	57.0		ug/Kg		114	65 - 123
Xylenes, Total	100	109		ug/Kg		109	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-112057/2-A
Matrix: Solid
Analysis Batch: 112557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112057

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		63 - 150
Dibromofluoromethane (Surr)	106		70 - 126
1,2-Dichloroethane-d4 (Surr)	105		72 - 127
Toluene-d8 (Surr)	111		80 - 120

Lab Sample ID: LCSD 160-112057/3-A
Matrix: Solid
Analysis Batch: 112557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112057

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			50.0	53.5		ug/Kg		107	59 - 129	3	20
Acetonitrile			500	525		ug/Kg		105	70 - 128	6	20
Benzene			50.0	52.5		ug/Kg		105	80 - 120	2	20
Bromobenzene			50.0	49.9		ug/Kg		100	80 - 120	2	20
Bromodichloromethane			50.0	53.2		ug/Kg		106	80 - 120	1	20
Bromoform			50.0	51.0		ug/Kg		102	84 - 126	0	20
Bromomethane			50.0	61.6		ug/Kg		123	74 - 128	2	20
2-Butanone (MEK)			50.0	53.0		ug/Kg		106	61 - 134	0	20
Carbon disulfide			50.0	55.8		ug/Kg		112	79 - 121	2	20
Carbon tetrachloride			50.0	54.3		ug/Kg		109	80 - 125	1	20
Chlorobenzene			50.0	52.6		ug/Kg		105	80 - 120	0	20
Chlorobromomethane			50.0	52.2		ug/Kg		104	80 - 120	1	20
Chloroethane			50.0	56.8		ug/Kg		114	73 - 129	1	20
Chloroform			50.0	52.1		ug/Kg		104	80 - 120	2	20
Chloromethane			50.0	57.5		ug/Kg		115	70 - 129	4	20
2-Chlorotoluene			50.0	55.6		ug/Kg		111	80 - 120	2	20
4-Chlorotoluene			50.0	53.8		ug/Kg		108	80 - 120	1	20
cis-1,2-Dichloroethene			50.0	52.8		ug/Kg		106	80 - 120	2	20
cis-1,3-Dichloropropene			50.0	53.5		ug/Kg		107	80 - 125	1	20
Cymene			50.0	56.3		ug/Kg		113	82 - 124	2	20
Dibromochloromethane			50.0	55.0		ug/Kg		110	80 - 120	2	20
Dibromomethane			50.0	52.8		ug/Kg		106	80 - 120	2	20
1,2-Dichlorobenzene			50.0	52.5		ug/Kg		105	80 - 120	1	20
1,3-Dichlorobenzene			50.0	52.0		ug/Kg		104	80 - 120	1	20
1,4-Dichlorobenzene			50.0	52.8		ug/Kg		106	80 - 120	1	20
Dichlorodifluoromethane			50.0	62.3	*	ug/Kg		125	73 - 124	2	20
1,1-Dichloroethane			50.0	53.2		ug/Kg		106	80 - 120	0	20
1,2-Dichloroethane			50.0	52.1		ug/Kg		104	76 - 125	0	20
1,1-Dichloroethene			50.0	54.6		ug/Kg		109	80 - 120	0	20
1,2-Dichloropropane			50.0	53.3		ug/Kg		107	80 - 120	0	20
1,3-Dichloropropane			50.0	53.5		ug/Kg		107	80 - 120	0	20
2,2-Dichloropropane			50.0	55.7		ug/Kg		111	78 - 130	2	20
1,1-Dichloropropene			50.0	54.8		ug/Kg		110	80 - 120	1	20
Ethylbenzene			50.0	54.4		ug/Kg		109	80 - 120	1	20
2-Hexanone			50.0	54.9		ug/Kg		110	71 - 127	15	20
Isopropylbenzene			50.0	56.1		ug/Kg		112	80 - 120	3	20
Methylene Chloride			50.0	51.9		ug/Kg		104	80 - 120	3	20
Methyl iodide			50.0	55.1		ug/Kg		110	77 - 124	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 160-112057/3-A
Matrix: Solid
Analysis Batch: 112557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112057

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)			50.0	51.0		ug/Kg		102	75 - 127	3	20
Methyl tert-butyl ether			50.0	55.1		ug/Kg		110	83 - 124	6	20
Naphthalene			50.0	55.7		ug/Kg		111	58 - 140	0	20
n-Butylbenzene			50.0	57.8		ug/Kg		116	78 - 123	2	20
N-Propylbenzene			50.0	56.6		ug/Kg		113	82 - 123	3	20
sec-Butylbenzene			50.0	55.8		ug/Kg		112	81 - 121	2	20
Styrene			50.0	55.0		ug/Kg		110	80 - 120	1	20
tert-Butylbenzene			50.0	54.5		ug/Kg		109	80 - 120	5	20
1,1,1,2-Tetrachloroethane			50.0	53.1		ug/Kg		106	80 - 120	1	20
1,1,2,2-Tetrachloroethane			50.0	50.6		ug/Kg		101	78 - 121	3	20
Tetrachloroethene			50.0	51.1		ug/Kg		102	80 - 120	5	20
Toluene			50.0	53.9		ug/Kg		108	80 - 120	1	20
trans-1,2-Dichloroethene			50.0	52.6		ug/Kg		105	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	53.4		ug/Kg		107	82 - 124	1	20
1,2,3-Trichlorobenzene			50.0	52.0		ug/Kg		104	52 - 140	2	20
1,2,4-Trichlorobenzene			50.0	53.9		ug/Kg		108	75 - 124	2	20
1,1,1-Trichloroethane			50.0	54.2		ug/Kg		108	81 - 124	1	20
1,1,2-Trichloroethane			50.0	52.5		ug/Kg		105	80 - 120	0	20
Trichloroethene			50.0	51.9		ug/Kg		104	80 - 120	0	20
Trichlorofluoromethane			50.0	55.3		ug/Kg		111	77 - 132	2	20
1,2,3-Trichloropropane			50.0	50.5		ug/Kg		101	77 - 120	3	20
1,2,4-Trimethylbenzene			50.0	55.0		ug/Kg		110	85 - 123	2	20
1,3,5-Trimethylbenzene			50.0	56.7		ug/Kg		113	80 - 120	2	20
Vinyl acetate			50.0	57.6		ug/Kg		115	67 - 134	2	20
Vinyl chloride			50.0	57.0		ug/Kg		114	65 - 123	0	20
Xylenes, Total			100	107		ug/Kg		107	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*63 - 150*
Dibromofluoromethane (Surr)	*108*		*70 - 126*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 127*
Toluene-d8 (Surr)	*111*		*80 - 120*

Lab Sample ID: MB 160-112329/1-A
Matrix: Solid
Analysis Batch: 112345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.5	U	20	6.5	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Acetonitrile	20	U	50	20	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Benzene	0.25	U	5.0	0.25	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Bromobenzene	0.37	U	5.0	0.37	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Bromodichloromethane	0.25	U	5.0	0.25	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Bromoform	0.37	U	5.0	0.37	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Bromomethane	1.1	U	10	1.1	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
2-Butanone (MEK)	1.9	U	20	1.9	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Carbon disulfide	0.69	U	5.0	0.69	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Carbon tetrachloride	0.51	U	5.0	0.51	ug/Kg		03/24/14 16:13	03/24/14 18:47	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-112329/1-A
Matrix: Solid
Analysis Batch: 112345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.38	U	5.0	0.38	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Chlorobromomethane	0.82	U	5.0	0.82	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Chloroethane	0.52	U	10	0.52	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Chloroform	0.38	U	5.0	0.38	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Chloromethane	0.65	U	10	0.65	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
2-Chlorotoluene	0.34	U	5.0	0.34	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
4-Chlorotoluene	0.38	U	5.0	0.38	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
cis-1,2-Dichloroethene	0.60	U	5.0	0.60	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
cis-1,3-Dichloropropene	0.60	U	5.0	0.60	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Cymene	0.32	U	5.0	0.32	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Dibromochloromethane	0.41	U	5.0	0.41	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Dibromomethane	0.97	U	5.0	0.97	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,2-Dichlorobenzene	0.28	U	5.0	0.28	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,4-Dichlorobenzene	0.60	U	5.0	0.60	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Dichlorodifluoromethane	1.3	U	10	1.3	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,1-Dichloroethane	0.39	U	5.0	0.39	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,2-Dichloroethane	0.87	U	5.0	0.87	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,1-Dichloroethene	1.6	U	5.0	1.6	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,2-Dichloropropane	0.38	U	5.0	0.38	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,3-Dichloropropane	0.32	U	5.0	0.32	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
2,2-Dichloropropane	0.54	U	5.0	0.54	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,1-Dichloropropene	0.30	U	5.0	0.30	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Ethanol	61	U	250	61	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Ethylbenzene	0.30	U	5.0	0.30	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
2-Hexanone	1.8	U	20	1.8	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Isopropylbenzene	0.26	U	5.0	0.26	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Methylene Chloride	1.6	U	5.0	1.6	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Methyl iodide	1.5	U	5.0	1.5	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
4-Methyl-2-pentanone (MIBK)	0.73	U	20	0.73	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Methyl tert-butyl ether	0.48	U	5.0	0.48	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
m-Xylene & p-Xylene	0.57	U	5.0	0.57	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Naphthalene	0.49	U	5.0	0.49	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
n-Butylbenzene	0.60	U	5.0	0.60	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
N-Propylbenzene	0.32	U	5.0	0.32	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
o-Xylene	0.34	U	5.0	0.34	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
sec-Butylbenzene	0.31	U	5.0	0.31	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Styrene	0.35	U	5.0	0.35	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
tert-Butylbenzene	0.31	U	5.0	0.31	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,1,1,2-Tetrachloroethane	0.35	U	5.0	0.35	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,1,2,2-Tetrachloroethane	0.40	U	5.0	0.40	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Tetrachloroethene	0.32	U	5.0	0.32	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Toluene	0.70	U	5.0	0.70	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
trans-1,2-Dichloroethene	0.94	U	5.0	0.94	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
trans-1,3-Dichloropropene	0.35	U	5.0	0.35	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,2,3-Trichlorobenzene	0.44	U	5.0	0.44	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,2,4-Trichlorobenzene	0.43	U	5.0	0.43	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,1,1-Trichloroethane	0.43	U	5.0	0.43	ug/Kg		03/24/14 16:13	03/24/14 18:47	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-112329/1-A
Matrix: Solid
Analysis Batch: 112345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.57	U	5.0	0.57	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Trichloroethene	0.39	U	5.0	0.39	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Trichlorofluoromethane	0.50	U	5.0	0.50	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,2,3-Trichloropropane	0.56	U	5.0	0.56	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,2,4-Trimethylbenzene	0.60	U	5.0	0.60	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
1,3,5-Trimethylbenzene	0.31	U	5.0	0.31	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Vinyl acetate	0.78	U	5.0	0.78	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Vinyl chloride	0.43	U	5.0	0.43	ug/Kg		03/24/14 16:13	03/24/14 18:47	1
Xylenes, Total	0.85	U	10	0.85	ug/Kg		03/24/14 16:13	03/24/14 18:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*63 - 150*	*03/24/14 16:13*	*03/24/14 18:47*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 126*	*03/24/14 16:13*	*03/24/14 18:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 127*	*03/24/14 16:13*	*03/24/14 18:47*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*	*03/24/14 16:13*	*03/24/14 18:47*	*1*

Lab Sample ID: LCS 160-112329/2-A
Matrix: Solid
Analysis Batch: 112345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	47.2		ug/Kg		94	59 - 129
Acetonitrile	500	356		ug/Kg		71	70 - 128
Benzene	50.0	50.3		ug/Kg		101	80 - 120
Bromobenzene	50.0	50.7		ug/Kg		101	80 - 120
Bromodichloromethane	50.0	51.9		ug/Kg		104	80 - 120
Bromoform	50.0	54.1		ug/Kg		108	84 - 126
Bromomethane	50.0	70.3	*	ug/Kg		141	74 - 128
2-Butanone (MEK)	50.0	45.7		ug/Kg		91	61 - 134
Carbon disulfide	50.0	54.2		ug/Kg		108	79 - 121
Carbon tetrachloride	50.0	52.7		ug/Kg		105	80 - 125
Chlorobenzene	50.0	51.2		ug/Kg		102	80 - 120
Chlorobromomethane	50.0	51.5		ug/Kg		103	80 - 120
Chloroethane	50.0	56.4		ug/Kg		113	73 - 129
Chloroform	50.0	51.4		ug/Kg		103	80 - 120
Chloromethane	50.0	55.2		ug/Kg		110	70 - 129
2-Chlorotoluene	50.0	55.7		ug/Kg		111	80 - 120
4-Chlorotoluene	50.0	53.3		ug/Kg		107	80 - 120
cis-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	80 - 120
cis-1,3-Dichloropropene	50.0	49.3		ug/Kg		99	80 - 125
Cymene	50.0	53.4		ug/Kg		107	82 - 124
Dibromochloromethane	50.0	54.1		ug/Kg		108	80 - 120
Dibromomethane	50.0	49.5		ug/Kg		99	80 - 120
1,2-Dichlorobenzene	50.0	50.8		ug/Kg		102	80 - 120
1,3-Dichlorobenzene	50.0	50.9		ug/Kg		102	80 - 120
1,4-Dichlorobenzene	50.0	50.9		ug/Kg		102	80 - 120
Dichlorodifluoromethane	50.0	57.8		ug/Kg		116	73 - 124
1,1-Dichloroethane	50.0	51.7		ug/Kg		103	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-112329/2-A
Matrix: Solid
Analysis Batch: 112345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	50.9		ug/Kg		102	76 - 125
1,1-Dichloroethene	50.0	53.3		ug/Kg		107	80 - 120
1,2-Dichloropropane	50.0	50.8		ug/Kg		102	80 - 120
1,3-Dichloropropane	50.0	52.2		ug/Kg		104	80 - 120
2,2-Dichloropropane	50.0	53.0		ug/Kg		106	78 - 130
1,1-Dichloropropene	50.0	52.1		ug/Kg		104	80 - 120
Ethylbenzene	50.0	52.9		ug/Kg		106	80 - 120
2-Hexanone	50.0	52.5		ug/Kg		105	71 - 127
Isopropylbenzene	50.0	56.2		ug/Kg		112	80 - 120
Methylene Chloride	50.0	51.8		ug/Kg		104	80 - 120
Methyl iodide	50.0	54.4		ug/Kg		109	77 - 124
4-Methyl-2-pentanone (MIBK)	50.0	51.5		ug/Kg		103	75 - 127
Methyl tert-butyl ether	50.0	53.0		ug/Kg		106	83 - 124
Naphthalene	50.0	50.1		ug/Kg		100	58 - 140
n-Butylbenzene	50.0	54.9		ug/Kg		110	78 - 123
N-Propylbenzene	50.0	56.4		ug/Kg		113	82 - 123
sec-Butylbenzene	50.0	53.7		ug/Kg		107	81 - 121
Styrene	50.0	52.9		ug/Kg		106	80 - 120
tert-Butylbenzene	50.0	53.3		ug/Kg		107	80 - 120
1,1,1,2-Tetrachloroethane	50.0	54.3		ug/Kg		109	80 - 120
1,1,2,2-Tetrachloroethane	50.0	51.7		ug/Kg		103	78 - 121
Tetrachloroethene	50.0	49.9		ug/Kg		100	80 - 120
Toluene	50.0	52.6		ug/Kg		105	80 - 120
trans-1,2-Dichloroethene	50.0	50.9		ug/Kg		102	80 - 120
trans-1,3-Dichloropropene	50.0	51.7		ug/Kg		103	82 - 124
1,2,3-Trichlorobenzene	50.0	43.9		ug/Kg		88	52 - 140
1,2,4-Trichlorobenzene	50.0	45.1		ug/Kg		90	75 - 124
1,1,1-Trichloroethane	50.0	53.4		ug/Kg		107	81 - 124
1,1,2-Trichloroethane	50.0	51.3		ug/Kg		103	80 - 120
Trichloroethene	50.0	49.4		ug/Kg		99	80 - 120
Trichlorofluoromethane	50.0	53.3		ug/Kg		107	77 - 132
1,2,3-Trichloropropane	50.0	52.2		ug/Kg		104	77 - 120
1,2,4-Trimethylbenzene	50.0	54.3		ug/Kg		109	85 - 123
1,3,5-Trimethylbenzene	50.0	56.0		ug/Kg		112	80 - 120
Vinyl acetate	50.0	55.7		ug/Kg		111	67 - 134
Vinyl chloride	50.0	53.8		ug/Kg		108	65 - 123
Xylenes, Total	100	106		ug/Kg		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*63 - 150*
Dibromofluoromethane (Surr)	*99*		*70 - 126*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 127*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 160-112329/3-A
Matrix: Solid
Analysis Batch: 112345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112329

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	50.0	48.9		ug/Kg		98	59 - 129	3	20
Acetonitrile	500	488	*	ug/Kg		98	70 - 128	31	20
Benzene	50.0	49.4		ug/Kg		99	80 - 120	2	20
Bromobenzene	50.0	49.1		ug/Kg		98	80 - 120	3	20
Bromodichloromethane	50.0	48.8		ug/Kg		98	80 - 120	6	20
Bromoform	50.0	48.9		ug/Kg		98	84 - 126	10	20
Bromomethane	50.0	56.0	*	ug/Kg		112	74 - 128	23	20
2-Butanone (MEK)	50.0	47.8		ug/Kg		96	61 - 134	5	20
Carbon disulfide	50.0	51.8		ug/Kg		104	79 - 121	5	20
Carbon tetrachloride	50.0	51.3		ug/Kg		103	80 - 125	3	20
Chlorobenzene	50.0	51.1		ug/Kg		102	80 - 120	0	20
Chlorobromomethane	50.0	50.9		ug/Kg		102	80 - 120	1	20
Chloroethane	50.0	50.6		ug/Kg		101	73 - 129	11	20
Chloroform	50.0	50.3		ug/Kg		101	80 - 120	2	20
Chloromethane	50.0	50.9		ug/Kg		102	70 - 129	8	20
2-Chlorotoluene	50.0	54.5		ug/Kg		109	80 - 120	2	20
4-Chlorotoluene	50.0	52.1		ug/Kg		104	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	50.4		ug/Kg		101	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	51.7		ug/Kg		103	80 - 125	5	20
Cymene	50.0	53.5		ug/Kg		107	82 - 124	0	20
Dibromochloromethane	50.0	52.6		ug/Kg		105	80 - 120	3	20
Dibromomethane	50.0	49.3		ug/Kg		99	80 - 120	0	20
1,2-Dichlorobenzene	50.0	50.7		ug/Kg		101	80 - 120	0	20
1,3-Dichlorobenzene	50.0	50.1		ug/Kg		100	80 - 120	2	20
1,4-Dichlorobenzene	50.0	50.7		ug/Kg		101	80 - 120	0	20
Dichlorodifluoromethane	50.0	50.7		ug/Kg		101	73 - 124	13	20
1,1-Dichloroethane	50.0	51.3		ug/Kg		103	80 - 120	1	20
1,2-Dichloroethane	50.0	49.2		ug/Kg		98	76 - 125	3	20
1,1-Dichloroethene	50.0	48.6		ug/Kg		97	80 - 120	9	20
1,2-Dichloropropane	50.0	50.2		ug/Kg		100	80 - 120	1	20
1,3-Dichloropropane	50.0	51.3		ug/Kg		103	80 - 120	2	20
2,2-Dichloropropane	50.0	50.9		ug/Kg		102	78 - 130	4	20
1,1-Dichloropropene	50.0	54.9		ug/Kg		110	80 - 120	5	20
Ethylbenzene	50.0	52.3		ug/Kg		105	80 - 120	1	20
2-Hexanone	50.0	52.0		ug/Kg		104	71 - 127	1	20
Isopropylbenzene	50.0	54.7		ug/Kg		109	80 - 120	3	20
Methylene Chloride	50.0	49.9		ug/Kg		100	80 - 120	4	20
Methyl iodide	50.0	51.8		ug/Kg		104	77 - 124	5	20
4-Methyl-2-pentanone (MIBK)	50.0	49.9		ug/Kg		100	75 - 127	3	20
Methyl tert-butyl ether	50.0	49.9		ug/Kg		100	83 - 124	6	20
Naphthalene	50.0	54.1		ug/Kg		108	58 - 140	8	20
n-Butylbenzene	50.0	56.3		ug/Kg		113	78 - 123	3	20
N-Propylbenzene	50.0	55.4		ug/Kg		111	82 - 123	2	20
sec-Butylbenzene	50.0	55.1		ug/Kg		110	81 - 121	3	20
Styrene	50.0	51.1		ug/Kg		102	80 - 120	3	20
tert-Butylbenzene	50.0	53.3		ug/Kg		107	80 - 120	0	20
1,1,1,2-Tetrachloroethane	50.0	52.1		ug/Kg		104	80 - 120	4	20
1,1,2,2-Tetrachloroethane	50.0	48.7		ug/Kg		97	78 - 121	6	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 160-112329/3-A
Matrix: Solid
Analysis Batch: 112345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112329

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene			50.0	49.1		ug/Kg		98	80 - 120	2	20
Toluene			50.0	52.9		ug/Kg		106	80 - 120	1	20
trans-1,2-Dichloroethene			50.0	51.5		ug/Kg		103	80 - 120	1	20
trans-1,3-Dichloropropene			50.0	56.4		ug/Kg		113	82 - 124	9	20
1,2,3-Trichlorobenzene			50.0	51.3		ug/Kg		103	52 - 140	16	20
1,2,4-Trichlorobenzene			50.0	53.5		ug/Kg		107	75 - 124	17	20
1,1,1-Trichloroethane			50.0	50.6		ug/Kg		101	81 - 124	5	20
1,1,2-Trichloroethane			50.0	50.3		ug/Kg		101	80 - 120	2	20
Trichloroethene			50.0	50.5		ug/Kg		101	80 - 120	2	20
Trichlorofluoromethane			50.0	48.9		ug/Kg		98	77 - 132	8	20
1,2,3-Trichloropropane			50.0	48.2		ug/Kg		96	77 - 120	8	20
1,2,4-Trimethylbenzene			50.0	53.1		ug/Kg		106	85 - 123	2	20
1,3,5-Trimethylbenzene			50.0	55.7		ug/Kg		111	80 - 120	0	20
Vinyl acetate			50.0	62.6		ug/Kg		125	67 - 134	12	20
Vinyl chloride			50.0	52.1		ug/Kg		104	65 - 123	3	20
Xylenes, Total			100	104		ug/Kg		104	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*63 - 150*
Dibromofluoromethane (Surr)	*100*		*70 - 126*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 127*
Toluene-d8 (Surr)	*105*		*80 - 120*

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

Lab Sample ID: MB 160-112163/1-A
Matrix: Solid
Analysis Batch: 113346

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Acenaphthylene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Anthracene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Benzo[a]anthracene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Benzo[b]fluoranthene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Benzo[k]fluoranthene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Benzo[g,h,i]perylene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Benzo[a]pyrene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Chrysene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Dibenz(a,h)anthracene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Fluoranthene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Fluorene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Indeno[1,2,3-cd]pyrene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Naphthalene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Phenanthrene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1
Pyrene	33	U	330	33	ug/Kg		03/24/14 08:33	03/27/14 14:01	1

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

Lab Sample ID: MB 160-112163/1-A
Matrix: Solid
Analysis Batch: 113346

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112163

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	87		53 - 97	03/24/14 08:33	03/27/14 14:01	1
2,4,6-Tribromophenol (Surr)	96		46 - 111	03/24/14 08:33	03/27/14 14:01	1
Nitrobenzene-d5 (Surr)	83		55 - 98	03/24/14 08:33	03/27/14 14:01	1
Phenol-d5 (Surr)	84		54 - 101	03/24/14 08:33	03/27/14 14:01	1
Terphenyl-d14 (Surr)	92		58 - 123	03/24/14 08:33	03/27/14 14:01	1
2-Fluorobiphenyl (Surr)	91		56 - 97	03/24/14 08:33	03/27/14 14:01	1

Lab Sample ID: LCS 160-112163/2-A
Matrix: Solid
Analysis Batch: 113346

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6670	6160		ug/Kg		92	63 - 95
Acenaphthylene	6670	6230		ug/Kg		93	62 - 98
Anthracene	6680	6250		ug/Kg		94	63 - 100
Benzo[a]anthracene	6670	6110		ug/Kg		92	74 - 114
Benzo[b]fluoranthene	6670	6150		ug/Kg		92	68 - 109
Benzo[k]fluoranthene	6680	6280		ug/Kg		94	69 - 111
Benzo[g,h,i]perylene	6670	6930		ug/Kg		104	67 - 121
Benzo[a]pyrene	6670	6310		ug/Kg		95	63 - 103
Chrysene	6670	6170		ug/Kg		92	66 - 100
Dibenz(a,h)anthracene	6670	6740		ug/Kg		101	67 - 114
Fluoranthene	6670	6030		ug/Kg		90	63 - 101
Fluorene	6670	6120		ug/Kg		92	62 - 96
Indeno[1,2,3-cd]pyrene	6670	6670		ug/Kg		100	65 - 120
Naphthalene	6670	5990		ug/Kg		90	60 - 90
Phenanthrene	6680	6400		ug/Kg		96	63 - 99
Pyrene	6670	6610		ug/Kg		99	64 - 102

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	89		53 - 97
2,4,6-Tribromophenol (Surr)	100		46 - 111
Nitrobenzene-d5 (Surr)	87		55 - 98
Phenol-d5 (Surr)	84		54 - 101
Terphenyl-d14 (Surr)	98		58 - 123
2-Fluorobiphenyl (Surr)	96		56 - 97

Lab Sample ID: 160-5993-1 MS
Matrix: Solid
Analysis Batch: 113346

Client Sample ID: NE-B-7 0-0.5
Prep Type: Total/NA
Prep Batch: 112163

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	35	U	6980	6470		ug/Kg	☼	93	57 - 94
Acenaphthylene	35	U	6980	6550		ug/Kg	☼	94	57 - 97
Anthracene	35	U	6990	6580		ug/Kg	☼	94	58 - 99
Benzo[a]anthracene	35	U	6970	6560		ug/Kg	☼	94	68 - 114
Benzo[b]fluoranthene	35	U	6970	7430		ug/Kg	☼	107	63 - 107
Benzo[k]fluoranthene	35	U	6990	7070		ug/Kg	☼	101	65 - 108

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

Lab Sample ID: 160-5993-1 MS
Matrix: Solid
Analysis Batch: 113346

Client Sample ID: NE-B-7 0-0.5
Prep Type: Total/NA
Prep Batch: 112163

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	35	U	6980	4860		ug/Kg	☼	70	54 - 127
Benzo[a]pyrene	35	U	6970	6800		ug/Kg	☼	98	61 - 102
Chrysene	35	U	6980	6590		ug/Kg	☼	94	61 - 100
Dibenz(a,h)anthracene	35	U	6980	5310		ug/Kg	☼	76	59 - 118
Fluoranthene	35	U	6970	6580		ug/Kg	☼	94	58 - 103
Fluorene	35	U	6970	6350		ug/Kg	☼	91	58 - 97
Indeno[1,2,3-cd]pyrene	35	U	6970	5140		ug/Kg	☼	74	56 - 123
Naphthalene	35	U	6980	6290	F1	ug/Kg	☼	90	52 - 86
Phenanthrene	35	U	6990	6810		ug/Kg	☼	97	60 - 98
Pyrene	35	U	6970	6520		ug/Kg	☼	94	53 - 106

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*87*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*100*		*46 - 111*
Nitrobenzene-d5 (Surr)	*88*		*55 - 98*
Phenol-d5 (Surr)	*81*		*54 - 101*
Terphenyl-d14 (Surr)	*88*		*58 - 123*
2-Fluorobiphenyl (Surr)	*99*	*X*	*56 - 97*

Lab Sample ID: 160-5993-1 MSD
Matrix: Solid
Analysis Batch: 113346

Client Sample ID: NE-B-7 0-0.5
Prep Type: Total/NA
Prep Batch: 112163

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	35	U	6960	6150		ug/Kg	☼	88	57 - 94	5	30
Acenaphthylene	35	U	6960	6280		ug/Kg	☼	90	57 - 97	4	30
Anthracene	35	U	6970	6320		ug/Kg	☼	91	58 - 99	4	30
Benzo[a]anthracene	35	U	6950	6380		ug/Kg	☼	92	68 - 114	3	30
Benzo[b]fluoranthene	35	U	6950	7030		ug/Kg	☼	101	63 - 107	6	30
Benzo[k]fluoranthene	35	U	6970	6880		ug/Kg	☼	99	65 - 108	3	30
Benzo[g,h,i]perylene	35	U	6960	4480		ug/Kg	☼	64	54 - 127	8	30
Benzo[a]pyrene	35	U	6950	6530		ug/Kg	☼	94	61 - 102	4	30
Chrysene	35	U	6960	6380		ug/Kg	☼	92	61 - 100	3	30
Dibenz(a,h)anthracene	35	U	6960	4930		ug/Kg	☼	71	59 - 118	7	30
Fluoranthene	35	U	6950	6340		ug/Kg	☼	91	58 - 103	4	30
Fluorene	35	U	6950	6100		ug/Kg	☼	88	58 - 97	4	30
Indeno[1,2,3-cd]pyrene	35	U	6950	4750		ug/Kg	☼	68	56 - 123	8	30
Naphthalene	35	U	6960	6120	F1	ug/Kg	☼	88	52 - 86	3	30
Phenanthrene	35	U	6970	6470		ug/Kg	☼	93	60 - 98	5	30
Pyrene	35	U	6950	6410		ug/Kg	☼	92	53 - 106	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*82*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*96*		*46 - 111*
Nitrobenzene-d5 (Surr)	*85*		*55 - 98*
Phenol-d5 (Surr)	*77*		*54 - 101*
Terphenyl-d14 (Surr)	*87*		*58 - 123*

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

Lab Sample ID: 160-5993-1 MSD
Matrix: Solid
Analysis Batch: 113346

Client Sample ID: NE-B-7 0-0.5
Prep Type: Total/NA
Prep Batch: 112163

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*93*		*56 - 97*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 320-38915/1-A
Matrix: Solid
Analysis Batch: 40487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38915

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.24	U	20	0.24	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-2	0.25	U	20	0.25	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-3	0.27	U	20	0.27	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-4	5.3	U	20	5.3	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-5	2.5	U	20	2.5	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-6	2.5	U	20	2.5	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-7	2.3	U	20	2.3	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-8	2.4	U	20	2.4	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-9	2.6	U	20	2.6	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-10	3.7	U	20	3.7	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-11	2.6	U	20	2.6	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-12/13	2.6	U	40	2.6	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-14	2.2	U	20	2.2	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-15	2.9	U	20	2.9	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-16	0.71	U	20	0.71	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-17	0.50	U	20	0.50	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-18/30	0.42	U	40	0.42	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-19	0.55	U	20	0.55	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-20/28	0.40	U	40	0.40	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-21/33	0.37	U	40	0.37	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-22	0.42	U	20	0.42	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-23	0.36	U	20	0.36	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-24	0.37	U	20	0.37	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-25	0.37	U	20	0.37	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-26/29	0.38	U	40	0.38	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-27	0.37	U	20	0.37	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-31	0.37	U	20	0.37	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-32	0.29	U	20	0.29	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-34	0.38	U	20	0.38	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-35	0.44	U	20	0.44	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-36	0.38	U	20	0.38	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-37	0.53	U	20	0.53	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-38	0.41	U	20	0.41	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-39	0.39	U	20	0.39	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-40/71	0.290	J q	40	0.23	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-41	0.29	U	20	0.29	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-42	0.25	U	20	0.25	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-43	0.26	U	20	0.26	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-44/47/65	0.932	J q	60	0.22	pg/g		03/24/14 14:13	04/12/14 07:03	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-38915/1-A
Matrix: Solid
Analysis Batch: 40487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38915

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-45	0.25	U	20	0.25	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-46	0.27	U	20	0.27	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-48	0.23	U	20	0.23	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-49/69	0.19	U	40	0.19	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-50/53	0.21	U	40	0.21	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-51	0.21	U	20	0.21	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-52	0.752	J q	20	0.24	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-54	0.24	U	20	0.24	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-55	0.30	U	20	0.30	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-56	0.33	U	20	0.33	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-57	0.30	U	20	0.30	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-58	0.30	U	20	0.30	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-59/62/75	0.17	U	60	0.17	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-60	0.32	U	20	0.32	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-61/70/74/76	0.29	U	80	0.29	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-63	0.28	U	20	0.28	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-64	0.16	U	20	0.16	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-66	0.33	U	20	0.33	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-67	0.28	U	20	0.28	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-68	0.27	U	20	0.27	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-72	0.29	U	20	0.29	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-73	0.18	U	20	0.18	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-77	0.43	U	2.0	0.43	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-78	0.34	U	20	0.34	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-79	0.29	U	20	0.29	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-80	0.28	U	20	0.28	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-81	0.41	U	2.0	0.41	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-82	0.47	U	20	0.47	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-83	0.51	U	20	0.51	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-84	0.42	U	20	0.42	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-85/116/117	0.31	U	60	0.31	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-86/87/97/108/119/125	0.32	U	120	0.32	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-88/91	0.36	U	40	0.36	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-89	0.40	U	20	0.40	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-90/101/113	0.32	U	60	0.32	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-92	0.38	U	20	0.38	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-93/100	0.36	U	40	0.36	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-107/124	0.30	U	40	0.30	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-94	0.38	U	20	0.38	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-95	0.35	U	20	0.35	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-96	0.21	U	20	0.21	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-98/102	0.33	U	40	0.33	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-99	0.38	U	20	0.38	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-103	0.33	U	20	0.33	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-104	0.20	U	20	0.20	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-105	0.34	U	2.0	0.34	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-106	0.32	U	20	0.32	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-110/115	0.29	U	40	0.29	pg/g		03/24/14 14:13	04/12/14 07:03	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-38915/1-A
Matrix: Solid
Analysis Batch: 40487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38915

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-109	0.27	U	20	0.27	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-111	0.26	U	20	0.26	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-112	0.25	U	20	0.25	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-114	0.32	U	2.0	0.32	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-118	0.32	U	2.0	0.32	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-120	0.28	U	20	0.28	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-121	0.26	U	20	0.26	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-122	0.33	U	20	0.33	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-123	0.32	U	2.0	0.32	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-126	0.39	U	2.0	0.39	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-127	0.32	U	20	0.32	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-128/166	0.30	U	40	0.30	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-129/138/163	0.32	U	60	0.32	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-130	0.40	U	20	0.40	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-131	0.38	U	20	0.38	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-132	0.36	U	20	0.36	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-133	0.36	U	20	0.36	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-134/143	0.36	U	40	0.36	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-135/151	0.32	U	40	0.32	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-136	0.23	U	20	0.23	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-137	0.32	U	20	0.32	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-139/140	0.31	U	40	0.31	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-141	0.34	U	20	0.34	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-142	0.35	U	20	0.35	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-144	0.32	U	20	0.32	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-145	0.23	U	20	0.23	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-146	0.34	U	20	0.34	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-147/149	0.332	J q	40	0.31	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-148	0.31	U	20	0.31	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-150	0.21	U	20	0.21	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-152	0.22	U	20	0.22	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-153/168	0.27	U	40	0.27	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-154	0.28	U	20	0.28	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-155	0.25	U	20	0.25	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-156/157	0.30	U	4.0	0.30	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-158	0.24	U	20	0.24	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-159	0.25	U	20	0.25	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-160	0.28	U	20	0.28	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-161	0.24	U	20	0.24	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-162	0.24	U	20	0.24	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-164	0.27	U	20	0.27	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-165	0.28	U	20	0.28	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-167	0.23	U	2.0	0.23	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-169	0.28	U	2.0	0.28	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-170	0.27	U	20	0.27	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-171/173	0.25	U	40	0.25	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-172	0.26	U	20	0.26	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-174	0.26	U	20	0.26	pg/g		03/24/14 14:13	04/12/14 07:03	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-38915/1-A
Matrix: Solid
Analysis Batch: 40487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38915

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-175	0.31	U	20	0.31	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-176	0.21	U	20	0.21	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-177	0.26	U	20	0.26	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-178	0.32	U	20	0.32	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-179	0.23	U	20	0.23	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-180/193	0.21	U	40	0.21	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-181	0.21	U	20	0.21	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-182	0.29	U	20	0.29	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-183	0.19	U	20	0.19	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-184	0.23	U	20	0.23	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-185	0.23	U	20	0.23	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-186	0.22	U	20	0.22	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-187	0.30	U	20	0.30	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-188	0.21	U	20	0.21	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-189	0.37	U	2.0	0.37	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-190	0.19	U	20	0.19	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-191	0.19	U	20	0.19	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-192	0.19	U	20	0.19	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-194	0.37	U	20	0.37	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-195	0.34	U	20	0.34	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-196	0.37	U	20	0.37	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-197	0.25	U	20	0.25	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-198/199	0.39	U	40	0.39	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-200	0.25	U	20	0.25	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-201	0.25	U	20	0.25	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-202	0.29	U	20	0.29	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-203	0.35	U	20	0.35	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-204	0.26	U	20	0.26	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-205	0.27	U	20	0.27	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-206	0.28	U	20	0.28	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-207	0.21	U	20	0.21	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-208	0.25	U	20	0.25	pg/g		03/24/14 14:13	04/12/14 07:03	1
PCB-209	0.20	U	20	0.20	pg/g		03/24/14 14:13	04/12/14 07:03	1
Total Monochlorobiphenyls	0.27	U	200	0.27	pg/g		03/24/14 14:13	04/12/14 07:03	1
Total Dichlorobiphenyls	5.3	U	200	5.3	pg/g		03/24/14 14:13	04/12/14 07:03	1
Total Trichlorobiphenyls	0.71	U	200	0.71	pg/g		03/24/14 14:13	04/12/14 07:03	1
Total Tetrachlorobiphenyls	1.97	J q	200	0.27	pg/g		03/24/14 14:13	04/12/14 07:03	1
Total Pentachlorobiphenyls	0.51	U	200	0.51	pg/g		03/24/14 14:13	04/12/14 07:03	1
Total Hexachlorobiphenyls	0.332	J q	200	0.29	pg/g		03/24/14 14:13	04/12/14 07:03	1
Total Heptachlorobiphenyls	0.37	U	200	0.37	pg/g		03/24/14 14:13	04/12/14 07:03	1
Total Octachlorobiphenyls	0.39	U	200	0.39	pg/g		03/24/14 14:13	04/12/14 07:03	1
Total Nonachlorobiphenyls	0.28	U	200	0.28	pg/g		03/24/14 14:13	04/12/14 07:03	1
Polychlorinated biphenyls, Total	2.31	J q	200	0.86	pg/g		03/24/14 14:13	04/12/14 07:03	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*52*		*5 - 145*	*03/24/14 14:13*	*04/12/14 07:03*	*1*
PCB-15L	*55*		*5 - 145*	*03/24/14 14:13*	*04/12/14 07:03*	*1*
PCB-123L	*71*		*10 - 145*	*03/24/14 14:13*	*04/12/14 07:03*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-38915/1-A
Matrix: Solid
Analysis Batch: 40487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38915

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-114L	71		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-202L	78		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-3L	49		5 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-118L	71		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-126L	79		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-206L	85		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-169L	94		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-37L	56		5 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-19L	60		5 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-188L	71		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-54L	56		5 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-156L/157L	83		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-167L	81		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-209L	87		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-189L	74		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-105L	74		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-208L	84		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-1L	42		5 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-104L	59		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-81L	60		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-77L	63		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-205L	81		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-155L	55		10 - 145	03/24/14 14:13	04/12/14 07:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	52		5 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-111L	70		10 - 145	03/24/14 14:13	04/12/14 07:03	1
PCB-178L	87		10 - 145	03/24/14 14:13	04/12/14 07:03	1

Lab Sample ID: LCS 320-38915/2-A
Matrix: Solid
Analysis Batch: 40487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	192		pg/g		96	60 - 135
PCB-3	200	193		pg/g		97	60 - 135
PCB-4	200	183		pg/g		92	60 - 135
PCB-15	200	195		pg/g		98	60 - 135
PCB-19	200	187		pg/g		94	60 - 135
PCB-37	200	198		pg/g		99	60 - 135
PCB-54	200	191		pg/g		95	60 - 135
PCB-77	200	197		pg/g		98	60 - 135
PCB-81	200	193		pg/g		96	60 - 135
PCB-104	200	196		pg/g		98	60 - 135
PCB-105	200	202		pg/g		101	60 - 135
PCB-114	200	202		pg/g		101	60 - 135
PCB-118	200	209		pg/g		104	60 - 135
PCB-123	200	200		pg/g		100	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-38915/2-A
Matrix: Solid
Analysis Batch: 40487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38915

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-126			200	206		pg/g		103	60 - 135		
PCB-155			200	200		pg/g		100	60 - 135		
PCB-156/157			400	383		pg/g		96	60 - 135		
PCB-167			200	192		pg/g		96	60 - 135		
PCB-169			200	180		pg/g		90	60 - 135		
PCB-188			200	187		pg/g		93	60 - 135		
PCB-189			200	202		pg/g		101	60 - 135		
PCB-202			200	194		pg/g		97	60 - 135		
PCB-205			200	185		pg/g		92	60 - 135		
PCB-206			200	200		pg/g		100	60 - 135		
PCB-208			200	198		pg/g		99	60 - 135		
PCB-209			200	194		pg/g		97	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*54*		*15 - 145*
PCB-15L	*53*		*15 - 145*
PCB-123L	*66*		*40 - 145*
PCB-114L	*65*		*40 - 145*
PCB-202L	*75*		*40 - 145*
PCB-3L	*50*		*15 - 145*
PCB-118L	*66*		*40 - 145*
PCB-126L	*74*		*40 - 145*
PCB-206L	*81*		*40 - 145*
PCB-169L	*86*		*40 - 145*
PCB-37L	*52*		*15 - 145*
PCB-19L	*57*		*15 - 145*
PCB-188L	*67*		*40 - 145*
PCB-54L	*53*		*15 - 145*
PCB-156L/157L	*76*		*40 - 145*
PCB-167L	*73*		*40 - 145*
PCB-209L	*84*		*40 - 145*
PCB-189L	*72*		*40 - 145*
PCB-105L	*71*		*40 - 145*
PCB-208L	*80*		*40 - 145*
PCB-1L	*45*		*15 - 145*
PCB-104L	*56*		*40 - 145*
PCB-81L	*56*		*40 - 145*
PCB-77L	*55*		*40 - 145*
PCB-205L	*82*		*40 - 145*
PCB-155L	*49*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*53*		*5 - 145*
PCB-111L	*68*		*10 - 145*
PCB-178L	*82*		*10 - 145*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-38892/1-A
Matrix: Solid
Analysis Batch: 40387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38892

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.016	U	1.0	0.016	pg/g		03/24/14 11:21	04/12/14 02:53	1
2,3,7,8-TCDF	0.014	U	1.0	0.014	pg/g		03/24/14 11:21	04/12/14 02:53	1
1,2,3,7,8-PeCDD	0.029	U	5.0	0.029	pg/g		03/24/14 11:21	04/12/14 02:53	1
1,2,3,7,8-PeCDF	0.016	U	5.0	0.016	pg/g		03/24/14 11:21	04/12/14 02:53	1
2,3,4,7,8-PeCDF	0.0278	J	5.0	0.017	pg/g		03/24/14 11:21	04/12/14 02:53	1
1,2,3,4,7,8-HxCDD	0.020	U	5.0	0.020	pg/g		03/24/14 11:21	04/12/14 02:53	1
1,2,3,6,7,8-HxCDD	0.015	U	5.0	0.015	pg/g		03/24/14 11:21	04/12/14 02:53	1
1,2,3,7,8,9-HxCDD	0.015	U	5.0	0.015	pg/g		03/24/14 11:21	04/12/14 02:53	1
1,2,3,4,7,8-HxCDF	0.018	U	5.0	0.018	pg/g		03/24/14 11:21	04/12/14 02:53	1
1,2,3,6,7,8-HxCDF	0.014	U	5.0	0.014	pg/g		03/24/14 11:21	04/12/14 02:53	1
1,2,3,7,8,9-HxCDF	0.018	U	5.0	0.018	pg/g		03/24/14 11:21	04/12/14 02:53	1
2,3,4,6,7,8-HxCDF	0.017	U	5.0	0.017	pg/g		03/24/14 11:21	04/12/14 02:53	1
1,2,3,4,6,7,8-HpCDD	0.028	U	5.0	0.028	pg/g		03/24/14 11:21	04/12/14 02:53	1
1,2,3,4,6,7,8-HpCDF	0.016	U	5.0	0.016	pg/g		03/24/14 11:21	04/12/14 02:53	1
1,2,3,4,7,8,9-HpCDF	0.019	U	5.0	0.019	pg/g		03/24/14 11:21	04/12/14 02:53	1
OCDD	0.376	J q	10	0.035	pg/g		03/24/14 11:21	04/12/14 02:53	1
OCDF	0.0639	J	10	0.055	pg/g		03/24/14 11:21	04/12/14 02:53	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*100*		*40 - 135*	*03/24/14 11:21*	*04/12/14 02:53*	*1*
13C-2,3,7,8-TCDD	*96*		*40 - 135*	*03/24/14 11:21*	*04/12/14 02:53*	*1*
13C-1,2,3,7,8-PeCDD	*96*		*40 - 135*	*03/24/14 11:21*	*04/12/14 02:53*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*96*		*40 - 135*	*03/24/14 11:21*	*04/12/14 02:53*	*1*
13C-1,2,3,7,8-PeCDF	*93*		*40 - 135*	*03/24/14 11:21*	*04/12/14 02:53*	*1*
13C-2,3,7,8-TCDF	*93*		*40 - 135*	*03/24/14 11:21*	*04/12/14 02:53*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*99*		*40 - 135*	*03/24/14 11:21*	*04/12/14 02:53*	*1*
13C-OCDD	*79*		*40 - 135*	*03/24/14 11:21*	*04/12/14 02:53*	*1*
13C-1,2,3,4,7,8-HxCDF	*89*		*40 - 135*	*03/24/14 11:21*	*04/12/14 02:53*	*1*

Lab Sample ID: LCS 320-38892/2-A
Matrix: Solid
Analysis Batch: 40387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	23.6		pg/g		118	77 - 130
2,3,7,8-TCDF	20.0	20.9		pg/g		105	79 - 137
1,2,3,7,8-PeCDD	100	111		pg/g		111	79 - 134
1,2,3,7,8-PeCDF	100	111		pg/g		111	81 - 134
2,3,4,7,8-PeCDF	100	107		pg/g		107	76 - 132
1,2,3,4,7,8-HxCDD	100	99.5		pg/g		99	65 - 144
1,2,3,6,7,8-HxCDD	100	103		pg/g		103	73 - 147
1,2,3,7,8,9-HxCDD	100	100		pg/g		100	80 - 143
1,2,3,4,7,8-HxCDF	100	103		pg/g		103	72 - 140
1,2,3,6,7,8-HxCDF	100	110		pg/g		110	63 - 152
1,2,3,7,8,9-HxCDF	100	109		pg/g		109	72 - 152
2,3,4,6,7,8-HxCDF	100	112		pg/g		112	72 - 151
1,2,3,4,6,7,8-HpCDD	100	115		pg/g		115	86 - 134
1,2,3,4,6,7,8-HpCDF	100	113		pg/g		113	81 - 137

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-38892/2-A
Matrix: Solid
Analysis Batch: 40387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3,4,7,8,9-HpCDF	100	111		pg/g		111	79 - 139
OCDD	200	232		pg/g		116	80 - 137
OCDF	200	262		pg/g		131	75 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-1,2,3,6,7,8-HxCDD	*102*		*40 - 135*
13C-2,3,7,8-TCDD	*94*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*99*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*94*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*96*		*40 - 135*
13C-2,3,7,8-TCDF	*96*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*97*		*40 - 135*
13C-OCDD	*83*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*93*		*40 - 135*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-112069/1-A
Matrix: Solid
Analysis Batch: 115734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.1	U	19	4.1	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Antimony	0.29	U	0.95	0.29	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Barium	0.10	U	4.8	0.10	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Beryllium	0.071	U	0.48	0.071	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Cadmium	0.032	U	0.48	0.032	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Calcium	6.4	U	240	6.4	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Chromium	0.13	U	0.95	0.13	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Cobalt	0.14	U	4.8	0.14	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Copper	0.23	U	2.4	0.23	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Iron	1.9	U	9.5	1.9	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Lead	0.12	U	0.95	0.12	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Magnesium	3.0	U	95	3.0	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Manganese	0.076	U	0.95	0.076	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Nickel	0.11	U	3.8	0.11	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Potassium	69	U	480	69	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Selenium	0.20	U	1.4	0.20	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Silver	0.067	U	0.95	0.067	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Sodium	7.3	U	95	7.3	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Titanium	0.13	U	1.9	0.13	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Vanadium	0.48	U	4.8	0.48	mg/Kg		03/24/14 08:27	04/09/14 15:36	1
Zinc	1.46	J	4.8	0.54	mg/Kg		03/24/14 08:27	04/09/14 15:36	1

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

Lab Sample ID: LCSSRM 160-112069/2-A
Matrix: Solid
Analysis Batch: 115734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112069

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9390	6640		mg/Kg		70.7	43.5 - 156.5
Antimony	129	68.0		mg/Kg		52.7	22.4 - 249.6
Barium	210	195		mg/Kg		92.8	73.3 - 126.7
Beryllium	55.8	53.8		mg/Kg		96.5	73.1 - 127.1
Cadmium	142	138		mg/Kg		97.0	73.2 - 128.2
Calcium	7530	7630		mg/Kg		101.3	74.6 - 125.4
Chromium	86.8	86.1		mg/Kg		99.2	69.1 - 131.3
Cobalt	199	203		mg/Kg		101.9	74.4 - 125.6
Copper	268	256		mg/Kg		95.3	76.1 - 123.9
Iron	12800	10700		mg/Kg		83.7	31.6 - 168.0
Lead	97.9	98.5		mg/Kg		100.6	70.8 - 128.7
Magnesium	2850	2430		mg/Kg		85.4	65.3 - 134.7
Manganese	425	400		mg/Kg		94.0	76.2 - 123.5
Nickel	236	239		mg/Kg		101.2	74.2 - 128.0
Potassium	2570	2130		mg/Kg		83.0	61.1 - 138.9
Selenium	127	122		mg/Kg		96.3	66.6 - 133.9
Silver	66.2	65.6		mg/Kg		99.1	67.1 - 132.9
Sodium	1040	1000		mg/Kg		96.5	60.4 - 139.4
Titanium	215	166		mg/Kg		77.0	0.0 - 215.8
Vanadium	156	147		mg/Kg		93.9	71.8 - 129.5
Zinc	130	127		mg/Kg		97.7	66.9 - 133.1

Lab Sample ID: 160-5993-1 MS
Matrix: Solid
Analysis Batch: 115734

Client Sample ID: NE-B-7 0-0.5
Prep Type: Total/NA
Prep Batch: 112069

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9500		973	11200	4	mg/Kg	☼	174	75 - 125
Antimony	3.0	U	48.7	25.9	F1	mg/Kg	☼	53	75 - 125
Barium	180		97.3	270		mg/Kg	☼	92	75 - 125
Beryllium	0.74	U	97.3	88.2		mg/Kg	☼	91	75 - 125
Cadmium	0.33	U	97.3	93.3		mg/Kg	☼	96	75 - 125

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

Lab Sample ID: 160-5993-1 MS
Matrix: Solid
Analysis Batch: 115734

Client Sample ID: NE-B-7 0-0.5
Prep Type: Total/NA
Prep Batch: 112069

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	26000		973	46500	4	mg/Kg	☼	2092	75 - 125
Chromium	23		97.3	113		mg/Kg	☼	93	75 - 125
Cobalt	12	J	97.3	104		mg/Kg	☼	95	75 - 125
Copper	47		97.3	131		mg/Kg	☼	87	75 - 125
Iron	17000		973	18200	4	mg/Kg	☼	104	75 - 125
Lead	22		97.3	116		mg/Kg	☼	97	75 - 125
Magnesium	13000		973	14100	4	mg/Kg	☼	71	75 - 125
Manganese	800		97.3	796	4	mg/Kg	☼	-0.8	75 - 125
Nickel	24	J	97.3	117		mg/Kg	☼	96	75 - 125
Potassium	2800	J	973	3520	J	mg/Kg	☼	75	75 - 125
Selenium	2.0	U	48.7	41.8		mg/Kg	☼	86	75 - 125
Silver	0.69	U	19.5	19.3		mg/Kg	☼	99	75 - 125
Sodium	1300		973	2310		mg/Kg	☼	107	75 - 125
Titanium	930		97.3	1040	4	mg/Kg	☼	110	75 - 125
Vanadium	45	J	97.3	133		mg/Kg	☼	91	75 - 125
Zinc	76	B	97.3	151		mg/Kg	☼	77	75 - 125

Lab Sample ID: 160-5993-1 MSD
Matrix: Solid
Analysis Batch: 115734

Client Sample ID: NE-B-7 0-0.5
Prep Type: Total/NA
Prep Batch: 112069

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	9500		893	11300	4	mg/Kg	☼	199	75 - 125	1	30
Antimony	3.0	U	44.7	22.8	F1	mg/Kg	☼	51	75 - 125	13	30
Barium	180		89.3	340	F1	mg/Kg	☼	179	75 - 125	23	30
Beryllium	0.74	U	89.3	82.0		mg/Kg	☼	92	75 - 125	7	30
Cadmium	0.33	U	89.3	85.9		mg/Kg	☼	96	75 - 125	8	30
Calcium	26000		893	29100	4 F2	mg/Kg	☼	332	75 - 125	46	30
Chromium	23		89.3	105		mg/Kg	☼	92	75 - 125	8	30
Cobalt	12	J	89.3	97.2		mg/Kg	☼	96	75 - 125	7	30
Copper	47		89.3	120		mg/Kg	☼	82	75 - 125	9	30
Iron	17000		893	16500	4	mg/Kg	☼	-80	75 - 125	10	30
Lead	22		89.3	110		mg/Kg	☼	99	75 - 125	5	30
Magnesium	13000		893	14300	4	mg/Kg	☼	95	75 - 125	1	30
Manganese	800		89.3	1000	4	mg/Kg	☼	228	75 - 125	23	30
Nickel	24	J	89.3	109		mg/Kg	☼	95	75 - 125	8	30
Potassium	2800	J	893	3540	J	mg/Kg	☼	84	75 - 125	0	30
Selenium	2.0	U	44.7	38.0		mg/Kg	☼	85	75 - 125	10	30
Silver	0.69	U	17.9	18.0		mg/Kg	☼	101	75 - 125	7	30
Sodium	1300		893	2340		mg/Kg	☼	120	75 - 125	1	30
Titanium	930		89.3	1010	4	mg/Kg	☼	89	75 - 125	3	30
Vanadium	45	J	89.3	130		mg/Kg	☼	96	75 - 125	2	30
Zinc	76	B	89.3	143		mg/Kg	☼	76	75 - 125	5	30

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-112071/1-A
Matrix: Solid
Analysis Batch: 115685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.25	U	0.97	0.25	mg/Kg		03/24/14 08:30	04/09/14 21:17	2
Niobium	0.37	U	2.4	0.37	mg/Kg		03/24/14 08:30	04/09/14 21:17	2
Thallium	0.15	U	0.48	0.15	mg/Kg		03/24/14 08:30	04/09/14 21:17	2
Uranium	0.019	U	0.097	0.019	mg/Kg		03/24/14 08:30	04/09/14 21:17	2

Lab Sample ID: LCS 160-112071/3-A
Matrix: Solid
Analysis Batch: 115685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	45.4	46.4	E	mg/Kg		102	80 - 120
Uranium	90.7	90.8		mg/Kg		100	80 - 120

Lab Sample ID: LCSSRM 160-112071/2-A
Matrix: Solid
Analysis Batch: 115685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112071

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	88.4	90.4		mg/Kg		102.3	69.0 - 131.2
Thallium	140	160		mg/Kg		114.3	68.3 - 132.1

Lab Sample ID: 160-5993-1 MS
Matrix: Solid
Analysis Batch: 115685

Client Sample ID: NE-B-7 0-0.5
Prep Type: Total/NA
Prep Batch: 112071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.9		88.2	90.5		mg/Kg	☼	97	75 - 125
Niobium	3.2	J	44.1	17.4	F1	mg/Kg	☼	32	75 - 125
Thallium	0.68	U	17.6	18.2		mg/Kg	☼	103	75 - 125
Uranium	0.90		88.2	87.8		mg/Kg	☼	99	75 - 125

Lab Sample ID: 160-5993-1 MSD
Matrix: Solid
Analysis Batch: 115685

Client Sample ID: NE-B-7 0-0.5
Prep Type: Total/NA
Prep Batch: 112071

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.9		102	101		mg/Kg	☼	94	75 - 125	11	30
Niobium	3.2	J	50.9	20.5	F1	mg/Kg	☼	34	75 - 125	16	30
Thallium	0.68	U	20.4	20.4		mg/Kg	☼	100	75 - 125	12	30
Uranium	0.90		102	99.8		mg/Kg	☼	97	75 - 125	13	30

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 160-113516/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 113749 — **Prep Batch: 113516**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	U	0.030	0.010	mg/Kg		03/31/14 11:30	04/01/14 08:46	1

Lab Sample ID: LCSSRM 160-113516/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 113749 — **Prep Batch: 113516**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	9.03	10.1		mg/Kg		111.5	51.3 - 148.4

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-116569/23-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 116351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0542	J	0.20	0.040	mg/Kg			04/09/14 17:13	1
Chloride	0.20	U	2.0	0.20	mg/Kg			04/09/14 17:13	1
Sulfate	0.50	U	5.0	0.50	mg/Kg			04/09/14 17:13	1

Lab Sample ID: LCS 160-116569/24-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 116351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	3.99	4.03		mg/Kg		101	90 - 110
Chloride	20.0	19.6		mg/Kg		98	90 - 110
Sulfate	79.8	76.0		mg/Kg		95	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-5993-1 MS — **Client Sample ID: NE-B-7 0-0.5**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 116351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N - DL	17	B	83.2	101		mg/Kg	☼	101	90 - 110
Sulfate - DL	540		832	1350		mg/Kg	☼	97	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL2

Lab Sample ID: 160-5993-1 MS — **Client Sample ID: NE-B-7 0-0.5**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 116351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL2	5000		10400	15200		mg/Kg	☼	98	90 - 110

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-113284/1-A
Matrix: Solid
Analysis Batch: 113528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113284

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.1169	U	2.64	2.64	10.0	5.17	pCi/g	03/28/14 09:21	03/31/14 07:18	1
Gross Beta	3.174		1.80	1.83	10.0	2.71	pCi/g	03/28/14 09:21	03/31/14 07:18	1

Lab Sample ID: LCS 160-113284/2-A
Matrix: Solid
Analysis Batch: 113528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113284

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	27.1	32.89		7.87	10.0	5.45	pCi/g	121	44 - 140
Gross Beta	26.8	20.84		3.94	10.0	3.16	pCi/g	78	38 - 130

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-112638/1-A
Matrix: Solid
Analysis Batch: 116525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112638

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium 228	0.05580	U	0.0816	0.0818		0.154	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Bismuth-212	0.07833	U	0.352	0.352		0.659	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Bismuth-214	-0.03707	U	0.630	0.630		0.143	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Bismuth-210M	0.008217	U	0.0351	0.0351		0.0690	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Cesium-134	0.007906	U	0.0167	0.0167		0.0554	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Cesium-137	0.001216	U	0.0258	0.0258		0.0511	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Cobalt-57	-0.004978	U	0.0144	0.0144		0.0254	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Cobalt-60	0.03204	U	0.0374	0.0375		0.0589	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Lead-212	-0.0003513	U	0.0370	0.0370		0.0696	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Lead-214	0.03062	U	0.0600	0.0601		0.113	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Potassium-40	-0.2821	U	1.16	1.16		0.968	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Protactinium-231	-0.1914	U	0.742	0.742		1.33	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Protactinium-234	0.04160	U	0.0878	0.0879		0.154	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Radium-224	0.005402	U	0.436	0.436		0.809	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Thallium-208	-0.01464	U	0.0452	0.0453		0.0736	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Thorium-227	-0.002916	U	0.00941	0.00942		0.279	pCi/g	03/25/14 17:06	04/15/14 19:06	1
Thorium-234	0.02390	U	0.196	0.196		0.868	pCi/g	03/25/14 17:06	04/15/14 19:06	1

Lab Sample ID: LCS 160-112638/2-A
Matrix: Solid
Analysis Batch: 116525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112638

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	31.2	30.58		3.25		0.226	pCi/g	98	87 - 120
Cobalt-60	22.7	22.24		2.28		0.109	pCi/g	98	87 - 115
Americium-241	97.5	95.74		10.0		1.09	pCi/g	98	87 - 116

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: 160-5993-1 DU
Matrix: Solid
Analysis Batch: 116960

Client Sample ID: NE-B-7 0-0.5
Prep Type: Total/NA
Prep Batch: 112638

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Actinium 228	1.72		1.481		0.278		0.253	pCi/g			0.38	1
Bismuth-212	1.97		2.292		0.931		0.819	pCi/g			0.19	1
Bismuth-214	1.18		1.182		0.235		0.156	pCi/g			0.01	1
Bismuth-210M	0.0327	U	0.04884	U	0.0645		0.106	pCi/g			0.14	1
Cesium-134	0.0372	U	0.02428	U	0.0269		0.0684	pCi/g			0.20	1
Cesium-137	0.0369	U	0.03470	U	0.0514		0.0856	pCi/g			0.02	1
Cobalt-57	0.0381	U	0.01807	U	0.0397		0.0665	pCi/g			0.27	1
Cobalt-60	0.00216	U	0.01341	U	0.0453		0.109	pCi/g			0.19	1
Lead-212	1.63		1.417		0.237		0.141	pCi/g			0.44	1
Lead-214	1.25		1.180		0.224		0.154	pCi/g			0.16	1
Potassium-40	21.5		20.41		2.90		0.579	pCi/g			0.19	1
Protactinium-231	0.798	U	0.9830	U	0.717		2.16	pCi/g			0.16	1
Protactinium-234	-0.0114	U	0.1277	U	0.137		0.319	pCi/g			0.87	1
Radium-224	1.18	U	1.593	U	1.16		1.82	pCi/g			0.17	1
Thallium-208	0.464		0.6168		0.123		0.0733	pCi/g			0.69	1
Thorium-227	0.457	U	0.1745	U	0.283		1.57	pCi/g			0.34	1
Thorium-234	1.30		0.9674	U	0.763		2.26	pCi/g			0.26	1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-112606/1-A
Matrix: Solid
Analysis Batch: 117284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112606

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03935	U	0.102	0.102	1.00	0.183	pCi/g	03/25/14 12:45	04/17/14 06:52	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*40 - 110*	*03/25/14 12:45*	*04/17/14 06:52*	*1*

Lab Sample ID: LCS 160-112606/2-A
Matrix: Solid
Analysis Batch: 117284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112606

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.2	9.757		1.06	1.00	0.129	pCi/g	87	65 - 140		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*108*		*40 - 110*

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 160-5993-1 DU
Matrix: Solid
Analysis Batch: 117284

Client Sample ID: NE-B-7 0-0.5
Prep Type: Total/NA
Prep Batch: 112606

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	1.17			1.404		0.264	1.00	0.137	pCi/g			0.46	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*109*		*40 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-112610/1-A
Matrix: Solid
Analysis Batch: 116842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112610

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.01907	U	0.171	0.171	1.00	0.303	pCi/g	03/25/14 12:54	04/16/14 11:13	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*40 - 110*	*03/25/14 12:54*	*04/16/14 11:13*	*1*
Y Carrier	*88.8*		*40 - 110*	*03/25/14 12:54*	*04/16/14 11:13*	*1*

Lab Sample ID: LCS 160-112610/2-A
Matrix: Solid
Analysis Batch: 116842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112610

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			3.90	2.898		0.458	1.00	0.331	pCi/g	74	61 - 139		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*108*		*40 - 110*
Y Carrier	*83.9*		*40 - 110*

Lab Sample ID: 160-5993-1 DU
Matrix: Solid
Analysis Batch: 116842

Client Sample ID: NE-B-7 0-0.5
Prep Type: Total/NA
Prep Batch: 112610

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	1.08			0.9246		0.264	1.00	0.317	pCi/g			0.29	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*109*		*40 - 110*
Y Carrier	*88.8*		*40 - 110*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-113328/1-A
Matrix: Solid
Analysis Batch: 115612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113328

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	0.03533	U	0.0638	0.0639	1.00	0.116	pCi/g	03/28/14 12:40	04/09/14 01:27	1
Thorium-230	0.1586		0.0860	0.0871	1.00	0.0523	pCi/g	03/28/14 12:40	04/09/14 01:27	1
Thorium-232	-0.002142	U	0.00428	0.00429	1.00	0.0520	pCi/g	03/28/14 12:40	04/09/14 01:27	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*81.5*		*30 - 110*	*03/28/14 12:40*	*04/09/14 01:27*	*1*

Lab Sample ID: LCS 160-113328/2-A
Matrix: Solid
Analysis Batch: 115613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113328

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			24.5	26.03		2.70	1.00	0.0722	pCi/g	106	81 - 118		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*77.4*		*30 - 110*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-113334/1-A
Matrix: Solid
Analysis Batch: 115436

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113334

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	0.05863		0.0479	0.0481	1.00	0.0293	pCi/g	03/28/14 12:40	04/09/14 21:51	1
Uranium-235/236	0.007599	U	0.0252	0.0252	1.00	0.0632	pCi/g	03/28/14 12:40	04/09/14 21:51	1
Uranium-238	0.02560	U	0.0342	0.0342	1.00	0.0507	pCi/g	03/28/14 12:40	04/09/14 21:51	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*96.3*		*30 - 110*	*03/28/14 12:40*	*04/09/14 21:51*	*1*

Lab Sample ID: LCS 160-113334/2-A
Matrix: Solid
Analysis Batch: 115437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113334

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Uranium-233/234			6.37	6.001		0.718	1.00	0.0327	pCi/g	94	84 - 120		
Uranium-238			6.51	6.329		0.747	1.00	0.0665	pCi/g	97	82 - 122		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*86.2*		*30 - 110*

GC/MS VOA

Prep Batch: 112057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-3	NE-B-7 10.0-11.5	Total/NA	Solid	5035	
LCS 160-112057/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 160-112057/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 160-112057/1-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 112329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1 - RA	NE-B-7 0-0.5	Total/NA	Solid	5035	
160-5993-2 - RA	NE-B-7 5.0-6.5	Total/NA	Solid	5035	
160-5993-4 - RA	DD-B-12 5-10	Total/NA	Solid	5035	
160-5993-5 - RA	NE-B-6 10.0-11.5	Total/NA	Solid	5035	
160-5993-6 - RA	NE-B-6 5.0-6.5	Total/NA	Solid	5035	
160-5993-7 - RA	NE-B-6 0-0.5	Total/NA	Solid	5035	
LCS 160-112329/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 160-112329/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 160-112329/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 112345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1 - RA	NE-B-7 0-0.5	Total/NA	Solid	8260C	112329
160-5993-2 - RA	NE-B-7 5.0-6.5	Total/NA	Solid	8260C	112329
160-5993-4 - RA	DD-B-12 5-10	Total/NA	Solid	8260C	112329
160-5993-5 - RA	NE-B-6 10.0-11.5	Total/NA	Solid	8260C	112329
160-5993-6 - RA	NE-B-6 5.0-6.5	Total/NA	Solid	8260C	112329
160-5993-7 - RA	NE-B-6 0-0.5	Total/NA	Solid	8260C	112329
LCS 160-112329/2-A	Lab Control Sample	Total/NA	Solid	8260C	112329
LCSD 160-112329/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	112329
MB 160-112329/1-A	Method Blank	Total/NA	Solid	8260C	112329

Analysis Batch: 112557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-3	NE-B-7 10.0-11.5	Total/NA	Solid	8260C	112057
LCS 160-112057/2-A	Lab Control Sample	Total/NA	Solid	8260C	112057
LCSD 160-112057/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	112057
MB 160-112057/1-A	Method Blank	Total/NA	Solid	8260C	112057

GC/MS Semi VOA

Prep Batch: 112163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	3550C	
160-5993-1 MS	NE-B-7 0-0.5	Total/NA	Solid	3550C	
160-5993-1 MSD	NE-B-7 0-0.5	Total/NA	Solid	3550C	
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	3550C	
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	3550C	
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	3550C	
LCS 160-112163/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 160-112163/1-A	Method Blank	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Analysis Batch: 113346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	8270D	112163
160-5993-1 MS	NE-B-7 0-0.5	Total/NA	Solid	8270D	112163
160-5993-1 MSD	NE-B-7 0-0.5	Total/NA	Solid	8270D	112163
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	8270D	112163
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	8270D	112163
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	8270D	112163
LCS 160-112163/2-A	Lab Control Sample	Total/NA	Solid	8270D	112163
MB 160-112163/1-A	Method Blank	Total/NA	Solid	8270D	112163

Specialty Organics

Prep Batch: 38892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	8290	
160-5993-1 - RA	NE-B-7 0-0.5	Total/NA	Solid	8290	
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	8290	
160-5993-4	DD-B-12 5-10	Total/NA	Solid	8290	
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	8290	
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	8290	
160-5993-7 - RA	NE-B-6 0-0.5	Total/NA	Solid	8290	
LCS 320-38892/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-38892/1-A	Method Blank	Total/NA	Solid	8290	

Prep Batch: 38915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	HRMS-Sox	
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	HRMS-Sox	
160-5993-4	DD-B-12 5-10	Total/NA	Solid	HRMS-Sox	
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	HRMS-Sox	
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	HRMS-Sox	
LCS 320-38915/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-38915/1-A	Method Blank	Total/NA	Solid	8290	

Analysis Batch: 40387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	8290A	38892
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	8290A	38892
160-5993-4	DD-B-12 5-10	Total/NA	Solid	8290A	38892
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	8290A	38892
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	8290A	38892
LCS 320-38892/2-A	Lab Control Sample	Total/NA	Solid	8290A	38892
MB 320-38892/1-A	Method Blank	Total/NA	Solid	8290A	38892

Analysis Batch: 40487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	1668C	38915
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	1668C	38915
160-5993-4	DD-B-12 5-10	Total/NA	Solid	1668C	38915
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	1668C	38915
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	1668C	38915

Specialty Organics (Continued)

Analysis Batch: 40487 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-38915/2-A	Lab Control Sample	Total/NA	Solid	1668C	38915
MB 320-38915/1-A	Method Blank	Total/NA	Solid	1668C	38915

Analysis Batch: 40564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1 - RA	NE-B-7 0-0.5	Total/NA	Solid	8290A	38892
160-5993-7 - RA	NE-B-6 0-0.5	Total/NA	Solid	8290A	38892

Metals

Prep Batch: 112069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	3050B	
160-5993-1 MS	NE-B-7 0-0.5	Total/NA	Solid	3050B	
160-5993-1 MSD	NE-B-7 0-0.5	Total/NA	Solid	3050B	
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	3050B	
160-5993-3	NE-B-7 10.0-11.5	Total/NA	Solid	3050B	
160-5993-5	NE-B-6 10.0-11.5	Total/NA	Solid	3050B	
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	3050B	
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	3050B	
LCSSRM 160-112069/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-112069/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 112071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	3050B	
160-5993-1 MS	NE-B-7 0-0.5	Total/NA	Solid	3050B	
160-5993-1 MSD	NE-B-7 0-0.5	Total/NA	Solid	3050B	
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	3050B	
160-5993-3	NE-B-7 10.0-11.5	Total/NA	Solid	3050B	
160-5993-5	NE-B-6 10.0-11.5	Total/NA	Solid	3050B	
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	3050B	
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	3050B	
LCS 160-112071/3-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-112071/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-112071/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 113516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	7471B	
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	7471B	
160-5993-3	NE-B-7 10.0-11.5	Total/NA	Solid	7471B	
160-5993-5	NE-B-6 10.0-11.5	Total/NA	Solid	7471B	
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	7471B	
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	7471B	
LCSSRM 160-113516/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-113516/1-A	Method Blank	Total/NA	Solid	7471B	

Metals (Continued)

Analysis Batch: 113749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	7471B	113516
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	7471B	113516
160-5993-3	NE-B-7 10.0-11.5	Total/NA	Solid	7471B	113516
160-5993-5	NE-B-6 10.0-11.5	Total/NA	Solid	7471B	113516
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	7471B	113516
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	7471B	113516
LCSSRM 160-113516/2-A	Lab Control Sample	Total/NA	Solid	7471B	113516
MB 160-113516/1-A	Method Blank	Total/NA	Solid	7471B	113516

Analysis Batch: 115685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	6020A	112071
160-5993-1 MS	NE-B-7 0-0.5	Total/NA	Solid	6020A	112071
160-5993-1 MSD	NE-B-7 0-0.5	Total/NA	Solid	6020A	112071
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	6020A	112071
160-5993-3	NE-B-7 10.0-11.5	Total/NA	Solid	6020A	112071
160-5993-5	NE-B-6 10.0-11.5	Total/NA	Solid	6020A	112071
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	6020A	112071
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	6020A	112071
LCS 160-112071/3-A	Lab Control Sample	Total/NA	Solid	6020A	112071
LCSSRM 160-112071/2-A	Lab Control Sample	Total/NA	Solid	6020A	112071
MB 160-112071/1-A	Method Blank	Total/NA	Solid	6020A	112071

Analysis Batch: 115734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	6010C	112069
160-5993-1 MS	NE-B-7 0-0.5	Total/NA	Solid	6010C	112069
160-5993-1 MSD	NE-B-7 0-0.5	Total/NA	Solid	6010C	112069
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	6010C	112069
160-5993-3	NE-B-7 10.0-11.5	Total/NA	Solid	6010C	112069
160-5993-5	NE-B-6 10.0-11.5	Total/NA	Solid	6010C	112069
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	6010C	112069
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	6010C	112069
LCSSRM 160-112069/2-A	Lab Control Sample	Total/NA	Solid	6010C	112069
MB 160-112069/1-A	Method Blank	Total/NA	Solid	6010C	112069

General Chemistry

Analysis Batch: 112558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	Moisture	
160-5993-1 DU	NE-B-7 0-0.5	Total/NA	Solid	Moisture	
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	Moisture	
160-5993-3	NE-B-7 10.0-11.5	Total/NA	Solid	Moisture	
160-5993-4	DD-B-12 5-10	Total/NA	Solid	Moisture	
160-5993-5	NE-B-6 10.0-11.5	Total/NA	Solid	Moisture	
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	Moisture	
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 116351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1 - DL	NE-B-7 0-0.5	Soluble	Solid	300.0	116569
160-5993-1 - DL2	NE-B-7 0-0.5	Soluble	Solid	300.0	116569
160-5993-1 MS - DL	NE-B-7 0-0.5	Soluble	Solid	300.0	116569
160-5993-1 MS - DL2	NE-B-7 0-0.5	Soluble	Solid	300.0	116569
160-5993-2	NE-B-7 5.0-6.5	Soluble	Solid	300.0	116569
160-5993-2 - DL	NE-B-7 5.0-6.5	Soluble	Solid	300.0	116569
160-5993-3	NE-B-7 10.0-11.5	Soluble	Solid	300.0	116569
160-5993-3 - DL	NE-B-7 10.0-11.5	Soluble	Solid	300.0	116569
160-5993-5	NE-B-6 10.0-11.5	Soluble	Solid	300.0	116569
160-5993-5 - DL2	NE-B-6 10.0-11.5	Soluble	Solid	300.0	116569
160-5993-6	NE-B-6 5.0-6.5	Soluble	Solid	300.0	116569
160-5993-6 - DL	NE-B-6 5.0-6.5	Soluble	Solid	300.0	116569
160-5993-6 - DL2	NE-B-6 5.0-6.5	Soluble	Solid	300.0	116569
160-5993-7	NE-B-6 0-0.5	Soluble	Solid	300.0	116569
160-5993-7 - DL2	NE-B-6 0-0.5	Soluble	Solid	300.0	116569
LCS 160-116569/24-A	Lab Control Sample	Soluble	Solid	300.0	116569
MB 160-116569/23-A	Method Blank	Soluble	Solid	300.0	116569

Leach Batch: 116569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1 - DL2	NE-B-7 0-0.5	Soluble	Solid	DI Leach	
160-5993-1 - DL	NE-B-7 0-0.5	Soluble	Solid	DI Leach	
160-5993-1 MS - DL2	NE-B-7 0-0.5	Soluble	Solid	DI Leach	
160-5993-1 MS - DL	NE-B-7 0-0.5	Soluble	Solid	DI Leach	
160-5993-2	NE-B-7 5.0-6.5	Soluble	Solid	DI Leach	
160-5993-2 - DL	NE-B-7 5.0-6.5	Soluble	Solid	DI Leach	
160-5993-3 - DL	NE-B-7 10.0-11.5	Soluble	Solid	DI Leach	
160-5993-3	NE-B-7 10.0-11.5	Soluble	Solid	DI Leach	
160-5993-5 - DL2	NE-B-6 10.0-11.5	Soluble	Solid	DI Leach	
160-5993-5	NE-B-6 10.0-11.5	Soluble	Solid	DI Leach	
160-5993-6	NE-B-6 5.0-6.5	Soluble	Solid	DI Leach	
160-5993-6 - DL	NE-B-6 5.0-6.5	Soluble	Solid	DI Leach	
160-5993-6 - DL2	NE-B-6 5.0-6.5	Soluble	Solid	DI Leach	
160-5993-7 - DL2	NE-B-6 0-0.5	Soluble	Solid	DI Leach	
160-5993-7	NE-B-6 0-0.5	Soluble	Solid	DI Leach	
LCS 160-116569/24-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 160-116569/23-A	Method Blank	Soluble	Solid	DI Leach	

Rad

Leach Batch: 112042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	Dry and Grind	
160-5993-1 DU	NE-B-7 0-0.5	Total/NA	Solid	Dry and Grind	
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	Dry and Grind	
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	Dry and Grind	
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	Dry and Grind	

Rad (Continued)

Prep Batch: 112606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	DPS-21	112042
160-5993-1 DU	NE-B-7 0-0.5	Total/NA	Solid	DPS-21	112042
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	DPS-21	112042
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	DPS-21	112042
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	DPS-21	112042
LCS 160-112606/2-A	Lab Control Sample	Total/NA	Solid	DPS-21	
MB 160-112606/1-A	Method Blank	Total/NA	Solid	DPS-21	

Prep Batch: 112610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	DPS-0	112042
160-5993-1 DU	NE-B-7 0-0.5	Total/NA	Solid	DPS-0	112042
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	DPS-0	112042
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	DPS-0	112042
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	DPS-0	112042
LCS 160-112610/2-A	Lab Control Sample	Total/NA	Solid	DPS-0	
MB 160-112610/1-A	Method Blank	Total/NA	Solid	DPS-0	

Prep Batch: 112638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	Fill_Geo-21	112042
160-5993-1 DU	NE-B-7 0-0.5	Total/NA	Solid	Fill_Geo-21	112042
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	Fill_Geo-21	112042
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	Fill_Geo-21	112042
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	Fill_Geo-21	112042
LCS 160-112638/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-112638/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Prep Batch: 113284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	Thin_Layer	112042
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	Thin_Layer	112042
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	Thin_Layer	112042
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	Thin_Layer	112042
LCS 160-113284/2-A	Lab Control Sample	Total/NA	Solid	Thin_Layer	
MB 160-113284/1-A	Method Blank	Total/NA	Solid	Thin_Layer	

Prep Batch: 113328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	ExtChrom	112042
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	ExtChrom	112042
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	ExtChrom	112042
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	ExtChrom	112042
LCS 160-113328/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-113328/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 113334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-1	NE-B-7 0-0.5	Total/NA	Solid	ExtChrom	112042
160-5993-2	NE-B-7 5.0-6.5	Total/NA	Solid	ExtChrom	112042
160-5993-6	NE-B-6 5.0-6.5	Total/NA	Solid	ExtChrom	112042

Rad (Continued)

Prep Batch: 113334 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5993-7	NE-B-6 0-0.5	Total/NA	Solid	ExtChrom	112042
LCS 160-113334/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-113334/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(63-150)	(70-126)	(72-127)	(80-120)
160-5993-1 - RA	NE-B-7 0-0.5	149 *	114	119	115
160-5993-2 - RA	NE-B-7 5.0-6.5	95	100	103	96
160-5993-3	NE-B-7 10.0-11.5	189 * X	74 *	50 * X	145 * X
160-5993-4 - RA	DD-B-12 5-10	102	108	112	103
160-5993-5 - RA	NE-B-6 10.0-11.5	108	114	112	109
160-5993-6 - RA	NE-B-6 5.0-6.5	97	104	106	103
160-5993-7 - RA	NE-B-6 0-0.5	96	102	103	100
LCS 160-112057/2-A	Lab Control Sample	102	106	105	111
LCS 160-112329/2-A	Lab Control Sample	98	99	98	104
LCSD 160-112057/3-A	Lab Control Sample Dup	103	108	107	111
LCSD 160-112329/3-A	Lab Control Sample Dup	96	100	98	105
MB 160-112057/1-A	Method Blank	114	108	106	109
MB 160-112329/1-A	Method Blank	106	105	104	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	TBP	NBZ	PHL	TPH	FBP
Lab Sample ID	Client Sample ID	(53-97)	(46-111)	(55-98)	(54-101)	(58-123)	(56-97)
160-5993-1	NE-B-7 0-0.5	85	97	86	80	90	97
160-5993-1 MS	NE-B-7 0-0.5	87	100	88	81	88	99 X
160-5993-1 MSD	NE-B-7 0-0.5	82	96	85	77	87	93
160-5993-2	NE-B-7 5.0-6.5	84	87	85	78	86	94
160-5993-6	NE-B-6 5.0-6.5	82	82	81	77	83	89
160-5993-7	NE-B-6 0-0.5	81	91	82	77	85	91
LCS 160-112163/2-A	Lab Control Sample	89	100	87	84	98	96
MB 160-112163/1-A	Method Blank	87	96	83	84	92	91

Surrogate Legend

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

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Surrogate Recovery (Acceptance Limits)		
		PCB-28L	PCB-111L	PCB-178L
Lab Sample ID	Client Sample ID	(5-145)	(10-145)	(10-145)
160-5993-1	NE-B-7 0-0.5	71	96	107

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	PCB-28L (5-145)	PCB-111L (10-145)	PCB-178L (10-145)						
160-5993-2	NE-B-7 5.0-6.5	57	73	91						
160-5993-4	DD-B-12 5-10	63	76	89						
160-5993-6	NE-B-6 5.0-6.5	56	71	89						
160-5993-7	NE-B-6 0-0.5	70	86	105						
LCS 320-38915/2-A	Lab Control Sample	53	68	82						
MB 320-38915/1-A	Method Blank	52	70	87						

Surrogate Legend

PCB-28L = PCB-28L
PCB-111L = PCB-111L
PCB-178L = PCB-178L

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
160-5993-1	NE-B-7 0-0.5	111 X
160-5993-1 DU	NE-B-7 0-0.5	109
160-5993-2	NE-B-7 5.0-6.5	111 X
160-5993-6	NE-B-6 5.0-6.5	112 X
160-5993-7	NE-B-6 0-0.5	108
LCS 160-112606/2-A	Lab Control Sample	108
MB 160-112606/1-A	Method Blank	107

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
160-5993-1	NE-B-7 0-0.5	111 X	87.1
160-5993-1 DU	NE-B-7 0-0.5	109	88.8
160-5993-2	NE-B-7 5.0-6.5	111 X	87.6
160-5993-6	NE-B-6 5.0-6.5	112 X	91.2
160-5993-7	NE-B-6 0-0.5	108	84.7
LCS 160-112610/2-A	Lab Control Sample	108	83.9
MB 160-112610/1-A	Method Blank	107	88.8

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		Th-229
Lab Sample ID	Client Sample ID	(30-110)
160-5993-1	NE-B-7 0-0.5	77.8
160-5993-2	NE-B-7 5.0-6.5	70.4
160-5993-6	NE-B-6 5.0-6.5	69.6
160-5993-7	NE-B-6 0-0.5	89.0
LCS 160-113328/2-A	Lab Control Sample	77.4
MB 160-113328/1-A	Method Blank	81.5

Tracer/Carrier Legend

Th-229 = Thorium-229

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)							
		U-232							
Lab Sample ID	Client Sample ID	(30-110)							
160-5993-1	NE-B-7 0-0.5	74.0							
160-5993-2	NE-B-7 5.0-6.5	81.6							
160-5993-6	NE-B-6 5.0-6.5	79.9							
160-5993-7	NE-B-6 0-0.5	89.1							
LCS 160-113334/2-A	Lab Control Sample	86.2							
MB 160-113334/1-A	Method Blank	96.3							

Tracer/Carrier Legend

U-232 = Uranium-232

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-7 0-0.5

Lab Sample ID: 160-5993-1

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		41	TEQ
Total PCB TEQ					pg/g		8.4	TEQ
Total TEQ					pg/g		50	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**250**	**G**	11	11	pg/g	0.0001	**0.025**	1668C
PCB-81	11	U G	11	11	pg/g	0.0003	0.00	1668C
PCB-105	**2200**	**E G**	59	59	pg/g	0.00003	**0.066**	1668C
PCB-114	**90**	**G**	57	57	pg/g	0.00003	**0.0027**	1668C
PCB-118	**4400**	**E G**	52	52	pg/g	0.00003	**0.13**	1668C
PCB-123	52	U G	52	52	pg/g	0.00003	0.00	1668C
PCB-126	**78**	**G**	71	71	pg/g	0.1	**7.8**	1668C
PCB-156/157	**870**	**G**	7.9	7.9	pg/g	0.00003	**0.026**	1668C
PCB-167	**290**	**G**	6.0	6.0	pg/g	0.00003	**0.0087**	1668C
PCB-169	**12**	**G**	8.3	8.3	pg/g	0.03	**0.36**	1668C
PCB-189	**82**		2.1	1.3	pg/g	0.00003	**0.0025**	1668C
2,3,7,8-TCDD	**1.3**		1.0	0.071	pg/g	1	**1.3**	8290A
1,2,3,7,8-PeCDD	**3.1**	**J q**	5.2	0.16	pg/g	1	**3.1**	8290A
1,2,3,7,8-PeCDF	**44**		5.2	0.30	pg/g	0.03	**1.3**	8290A
2,3,4,7,8-PeCDF	**24**	**B**	5.2	0.31	pg/g	0.3	**7.2**	8290A
1,2,3,4,7,8-HxCDD	**3.0**	**J**	5.2	0.082	pg/g	0.1	**0.30**	8290A
1,2,3,6,7,8-HxCDD	**7.0**		5.2	0.064	pg/g	0.1	**0.70**	8290A
1,2,3,7,8,9-HxCDD	**6.9**		5.2	0.061	pg/g	0.1	**0.69**	8290A
1,2,3,4,7,8-HxCDF	**110**		5.2	0.29	pg/g	0.1	**11**	8290A
1,2,3,6,7,8-HxCDF	**51**		5.2	0.23	pg/g	0.1	**5.1**	8290A
1,2,3,7,8,9-HxCDF	**6.5**		5.2	0.28	pg/g	0.1	**0.65**	8290A
2,3,4,6,7,8-HxCDF	**18**		5.2	0.26	pg/g	0.1	**1.8**	8290A
1,2,3,4,6,7,8-HpCDD	**38**		5.2	0.18	pg/g	0.01	**0.38**	8290A
1,2,3,4,6,7,8-HpCDF	**270**		5.2	0.37	pg/g	0.01	**2.7**	8290A
1,2,3,4,7,8,9-HpCDF	**84**		5.2	0.44	pg/g	0.01	**0.84**	8290A
OCDD	**230**	**B**	10	0.26	pg/g	0.0003	**0.069**	8290A
OCDF	**2500**	**B**	10	0.65	pg/g	0.0003	**0.75**	8290A
2,3,7,8-TCDF - RA	**34**		1.0	0.30	pg/g	0.1	**3.4**	8290A

Client Sample ID: NE-B-7 5.0-6.5

Lab Sample ID: 160-5993-2

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		0.13	TEQ
Total PCB TEQ					pg/g		0.00076	TEQ
Total TEQ					pg/g		0.13	TEQ

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client Sample ID: NE-B-7 5.0-6.5 (Continued)

Lab Sample ID: 160-5993-2

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	0.56	U	2.2	0.56	pg/g	0.0001	0.00	1668C
PCB-81	0.56	U	2.2	0.56	pg/g	0.0003	0.00	1668C
PCB-105	**7.5**		2.2	0.57	pg/g	0.00003	**0.00023**	1668C
PCB-114	0.54	U	2.2	0.54	pg/g	0.00003	0.00	1668C
PCB-118	**14**		2.2	0.54	pg/g	0.00003	**0.00042**	1668C
PCB-123	0.55	U	2.2	0.55	pg/g	0.00003	0.00	1668C
PCB-126	0.64	U	2.2	0.64	pg/g	0.1	0.00	1668C
PCB-156/157	**2.7**	**J**	4.3	0.39	pg/g	0.00003	**0.000081**	1668C
PCB-167	**0.86**	**J**	2.2	0.31	pg/g	0.00003	**0.000026**	1668C
PCB-169	0.35	U	2.2	0.35	pg/g	0.03	0.00	1668C
PCB-189	0.58	U	2.2	0.58	pg/g	0.00003	0.00	1668C
2,3,7,8-TCDD	0.025	U	1.1	0.025	pg/g	1	0.00	8290A
2,3,7,8-TCDF	**0.25**	**J**	1.1	0.020	pg/g	0.1	**0.025**	8290A
1,2,3,7,8-PeCDD	0.031	U	5.4	0.031	pg/g	1	0.00	8290A
1,2,3,7,8-PeCDF	**0.26**	**J**	5.4	0.032	pg/g	0.03	**0.0078**	8290A
2,3,4,7,8-PeCDF	0.033	U	5.4	0.033	pg/g	0.3	0.00	8290A
1,2,3,4,7,8-HxCDD	**0.032**	**J q**	5.4	0.024	pg/g	0.1	**0.0032**	8290A
1,2,3,6,7,8-HxCDD	**0.078**	**J**	5.4	0.019	pg/g	0.1	**0.0078**	8290A
1,2,3,7,8,9-HxCDD	**0.11**	**J**	5.4	0.018	pg/g	0.1	**0.011**	8290A
1,2,3,4,7,8-HxCDF	**0.30**	**J q**	5.4	0.039	pg/g	0.1	**0.030**	8290A
1,2,3,6,7,8-HxCDF	**0.20**	**J q**	5.4	0.031	pg/g	0.1	**0.020**	8290A
1,2,3,7,8,9-HxCDF	0.038	U	5.4	0.038	pg/g	0.1	0.00	8290A
2,3,4,6,7,8-HxCDF	0.036	U	5.4	0.036	pg/g	0.1	0.00	8290A
1,2,3,4,6,7,8-HpCDD	**0.22**	**J**	5.4	0.043	pg/g	0.01	**0.0022**	8290A
1,2,3,4,6,7,8-HpCDF	**1.3**	**J**	5.4	0.051	pg/g	0.01	**0.013**	8290A
1,2,3,4,7,8,9-HpCDF	**0.32**	**J q**	5.4	0.061	pg/g	0.01	**0.0032**	8290A
OCDD	**0.83**	**J q B**	11	0.068	pg/g	0.0003	**0.00025**	8290A
OCDF	**9.8**	**J B**	11	0.12	pg/g	0.0003	**0.0029**	8290A

Client Sample ID: DD-B-12 5-10

Lab Sample ID: 160-5993-4

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		0.51	TEQ
Total PCB TEQ					pg/g		0.00024	TEQ
Total TEQ					pg/g		0.51	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	0.50	U	2.2	0.50	pg/g	0.0001	0.00	1668C
PCB-81	0.47	U	2.2	0.47	pg/g	0.0003	0.00	1668C
PCB-105	**2.5**		2.2	0.44	pg/g	0.00003	**0.000075**	1668C
PCB-114	0.43	U	2.2	0.43	pg/g	0.00003	0.00	1668C

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client Sample ID: DD-B-12 5-10 (Continued)

Lab Sample ID: 160-5993-4

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-118	**4.4**		2.2	0.41	pg/g	0.00003	**0.00013**	1668C
PCB-123	0.42	U	2.2	0.42	pg/g	0.00003	0.00	1668C
PCB-126	0.51	U	2.2	0.51	pg/g	0.1	0.00	1668C
PCB-156/157	**1.3**	**J**	4.4	0.46	pg/g	0.00003	**0.000039**	1668C
PCB-167	0.36	U	2.2	0.36	pg/g	0.00003	0.00	1668C
PCB-169	0.43	U	2.2	0.43	pg/g	0.03	0.00	1668C
PCB-189	0.53	U	2.2	0.53	pg/g	0.00003	0.00	1668C
2,3,7,8-TCDD	0.024	U	1.1	0.024	pg/g	1	0.00	8290A
2,3,7,8-TCDF	**0.45**	**J**	1.1	0.018	pg/g	0.1	**0.045**	8290A
1,2,3,7,8-PeCDD	0.036	U	5.5	0.036	pg/g	1	0.00	8290A
1,2,3,7,8-PeCDF	**0.19**	**J q**	5.5	0.030	pg/g	0.03	**0.0057**	8290A
2,3,4,7,8-PeCDF	**0.24**	**J B**	5.5	0.031	pg/g	0.3	**0.072**	8290A
1,2,3,4,7,8-HxCDD	0.024	U	5.5	0.024	pg/g	0.1	0.00	8290A
1,2,3,6,7,8-HxCDD	**0.16**	**J**	5.5	0.019	pg/g	0.1	**0.016**	8290A
1,2,3,7,8,9-HxCDD	**0.19**	**J**	5.5	0.018	pg/g	0.1	**0.019**	8290A
1,2,3,4,7,8-HxCDF	**1.9**	**J**	5.5	0.048	pg/g	0.1	**0.19**	8290A
1,2,3,6,7,8-HxCDF	**0.61**	**J**	5.5	0.038	pg/g	0.1	**0.061**	8290A
1,2,3,7,8,9-HxCDF	**0.27**	**J**	5.5	0.046	pg/g	0.1	**0.027**	8290A
2,3,4,6,7,8-HxCDF	**0.20**	**J**	5.5	0.043	pg/g	0.1	**0.020**	8290A
1,2,3,4,6,7,8-HpCDD	**0.25**	**J q**	5.5	0.029	pg/g	0.01	**0.0025**	8290A
1,2,3,4,6,7,8-HpCDF	**4.0**	**J**	5.5	0.11	pg/g	0.01	**0.040**	8290A
1,2,3,4,7,8,9-HpCDF	**0.45**	**J q**	5.5	0.14	pg/g	0.01	**0.0045**	8290A
OCDD	**1.4**	**J q B**	11	0.060	pg/g	0.0003	**0.00042**	8290A
OCDF	**9.4**	**J B**	11	0.11	pg/g	0.0003	**0.0028**	8290A

Client Sample ID: NE-B-6 5.0-6.5

Lab Sample ID: 160-5993-6

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		0.087	TEQ
Total PCB TEQ					pg/g		0.000033	TEQ
Total TEQ					pg/g		0.087	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	0.41	U	2.1	0.41	pg/g	0.0001	0.00	1668C
PCB-81	0.39	U	2.1	0.39	pg/g	0.0003	0.00	1668C
PCB-105	0.32	U	2.1	0.32	pg/g	0.00003	0.00	1668C
PCB-114	0.32	U	2.1	0.32	pg/g	0.00003	0.00	1668C
PCB-118	**1.1**	**J**	2.1	0.30	pg/g	0.00003	**0.000033**	1668C
PCB-123	0.31	U	2.1	0.31	pg/g	0.00003	0.00	1668C
PCB-126	0.38	U	2.1	0.38	pg/g	0.1	0.00	1668C
PCB-156/157	0.40	U	4.2	0.40	pg/g	0.00003	0.00	1668C

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client Sample ID: NE-B-6 5.0-6.5 (Continued)

Lab Sample ID: 160-5993-6

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-167	0.32	U	2.1	0.32	pg/g	0.00003	0.00	1668C
PCB-169	0.37	U	2.1	0.37	pg/g	0.03	0.00	1668C
PCB-189	0.50	U	2.1	0.50	pg/g	0.00003	0.00	1668C
2,3,7,8-TCDD	0.021	U	1.1	0.021	pg/g	1	0.00	8290A
2,3,7,8-TCDF	**0.071**	**J**	1.1	0.014	pg/g	0.1	**0.0071**	8290A
1,2,3,7,8-PeCDD	0.026	U	5.3	0.026	pg/g	1	0.00	8290A
1,2,3,7,8-PeCDF	0.019	U	5.3	0.019	pg/g	0.03	0.00	8290A
2,3,4,7,8-PeCDF	0.019	U	5.3	0.019	pg/g	0.3	0.00	8290A
1,2,3,4,7,8-HxCDD	0.027	U	5.3	0.027	pg/g	0.1	0.00	8290A
1,2,3,6,7,8-HxCDD	**0.11**	**J**	5.3	0.021	pg/g	0.1	**0.011**	8290A
1,2,3,7,8,9-HxCDD	0.020	U	5.3	0.020	pg/g	0.1	0.00	8290A
1,2,3,4,7,8-HxCDF	**0.15**	**J**	5.3	0.028	pg/g	0.1	**0.015**	8290A
1,2,3,6,7,8-HxCDF	0.022	U	5.3	0.022	pg/g	0.1	0.00	8290A
1,2,3,7,8,9-HxCDF	0.027	U	5.3	0.027	pg/g	0.1	0.00	8290A
2,3,4,6,7,8-HxCDF	0.025	U	5.3	0.025	pg/g	0.1	0.00	8290A
1,2,3,4,6,7,8-HpCDD	**2.3**	**J q**	5.3	0.060	pg/g	0.01	**0.023**	8290A
1,2,3,4,6,7,8-HpCDF	**1.2**	**J q**	5.3	0.046	pg/g	0.01	**0.012**	8290A
1,2,3,4,7,8,9-HpCDF	0.055	U	5.3	0.055	pg/g	0.01	0.00	8290A
OCDD	**54**	**B**	11	0.17	pg/g	0.0003	**0.016**	8290A
OCDF	**8.0**	**J B**	11	0.077	pg/g	0.0003	**0.0024**	8290A

Client Sample ID: NE-B-6 0-0.5

Lab Sample ID: 160-5993-7

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		26	TEQ
Total PCB TEQ					pg/g		3.4	TEQ
Total TEQ					pg/g		29	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**170**	**G**	4.2	4.2	pg/g	0.0001	**0.017**	1668C
PCB-81	**15**	**G**	4.1	4.1	pg/g	0.0003	**0.0045**	1668C
PCB-105	**690**	**G**	17	17	pg/g	0.00003	**0.021**	1668C
PCB-114	**59**	**G**	17	17	pg/g	0.00003	**0.0018**	1668C
PCB-118	**2000**	**G**	16	16	pg/g	0.00003	**0.060**	1668C
PCB-123	**54**	**G**	17	17	pg/g	0.00003	**0.0016**	1668C
PCB-126	**33**	**G**	19	19	pg/g	0.1	**3.3**	1668C
PCB-156/157	**440**	**G**	5.4	5.4	pg/g	0.00003	**0.013**	1668C
PCB-167	**240**	**G**	4.2	4.2	pg/g	0.00003	**0.0072**	1668C
PCB-169	5.0	U G	5.0	5.0	pg/g	0.03	0.00	1668C
PCB-189	**99**		2.1	0.78	pg/g	0.00003	**0.0030**	1668C
2,3,7,8-TCDD	**0.29**	**J q**	1.1	0.029	pg/g	1	**0.29**	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Client Sample ID: NE-B-6 0-0.5 (Continued)

Lab Sample ID: 160-5993-7

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
1,2,3,7,8-PeCDD	0.53	J	5.3	0.057	pg/g	1	0.53	8290A
1,2,3,7,8-PeCDF	31		5.3	0.080	pg/g	0.03	0.93	8290A
2,3,4,7,8-PeCDF	20	B	5.3	0.082	pg/g	0.3	6.0	8290A
1,2,3,4,7,8-HxCDD	0.27	J q	5.3	0.053	pg/g	0.1	0.027	8290A
1,2,3,6,7,8-HxCDD	0.68	J q	5.3	0.041	pg/g	0.1	0.068	8290A
1,2,3,7,8,9-HxCDD	1.1	J	5.3	0.039	pg/g	0.1	0.11	8290A
1,2,3,4,7,8-HxCDF	100		5.3	0.22	pg/g	0.1	10	8290A
1,2,3,6,7,8-HxCDF	29		5.3	0.18	pg/g	0.1	2.9	8290A
1,2,3,7,8,9-HxCDF	3.6	J	5.3	0.22	pg/g	0.1	0.36	8290A
2,3,4,6,7,8-HxCDF	10		5.3	0.20	pg/g	0.1	1.0	8290A
1,2,3,4,6,7,8-HpCDD	8.9		5.3	0.099	pg/g	0.01	0.089	8290A
1,2,3,4,6,7,8-HpCDF	140		5.3	0.22	pg/g	0.01	1.4	8290A
1,2,3,4,7,8,9-HpCDF	39		5.3	0.27	pg/g	0.01	0.39	8290A
OCDD	73	B	11	0.17	pg/g	0.0003	0.022	8290A
OCDF	670	B	11	0.38	pg/g	0.0003	0.20	8290A
2,3,7,8-TCDF - RA	15		1.1	0.19	pg/g	0.1	1.5	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 160-5993-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-202L	PCB-3L	PCB-118L	PCB-126L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)
160-5993-1	NE-B-7 0-0.5	52	49 q	59	57	85	54	58	56
160-5993-2	NE-B-7 5.0-6.5	53	48 q	69	72	81	50	70	78
160-5993-4	DD-B-12 5-10	60	61	73	74	82	58	75	79
160-5993-6	NE-B-6 5.0-6.5	52	54	68	69	76	50	70	74
160-5993-7	NE-B-6 0-0.5	66	71	84	83	90	63	86	91
MB 320-38915/1-A	Method Blank	52	55	71	71	78	49	71	79

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-206L	PCB-169L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(5-145)	(5-145)	(10-145)	(5-145)	(10-145)	(10-145)
160-5993-1	NE-B-7 0-0.5	51	61	53	53	91	48	62	60
160-5993-2	NE-B-7 5.0-6.5	81	92	58	60	74	57	83	78
160-5993-4	DD-B-12 5-10	84	92	61	66	75	64	84	80
160-5993-6	NE-B-6 5.0-6.5	86	91	56	59	67	53	81	76
160-5993-7	NE-B-6 0-0.5	82	104	74	69	83	70	96	93
MB 320-38915/1-A	Method Blank	85	94	56	60	71	56	83	81

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)	(10-145)
160-5993-1	NE-B-7 0-0.5	46	63	57	72	46	55	52	52
160-5993-2	NE-B-7 5.0-6.5	84	75	73	85	43	57	61	62
160-5993-4	DD-B-12 5-10	87	76	77	86	47	66	62	61
160-5993-6	NE-B-6 5.0-6.5	86	74	72	84	43	56	58	59
160-5993-7	NE-B-6 0-0.5	81	81	87	92	53	68	75	75
MB 320-38915/1-A	Method Blank	87	74	74	84	42	59	60	63

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)
160-5993-1	NE-B-7 0-0.5	53	55
160-5993-2	NE-B-7 5.0-6.5	83	55
160-5993-4	DD-B-12 5-10	84	60
160-5993-6	NE-B-6 5.0-6.5	87	50
160-5993-7	NE-B-6 0-0.5	83	68
MB 320-38915/1-A	Method Blank	81	55

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-202L = PCB-202L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-206L = PCB-206L
PCB-169L = PCB-169L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L

PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-202L	PCB-3L	PCB-118L	PCB-126L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-38915/2-A	Lab Control Sample	54	53	66	65	75	50	66	74

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-206L	PCB-169L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-38915/2-A	Lab Control Sample	81	86	52	57	67	53	76	73

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-38915/2-A	Lab Control Sample	84	72	71	80	45	56	56	55

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-205L	PCB-155L						
Lab Sample ID	Client Sample ID	(40-145)	(40-145)						
LCS 320-38915/2-A	Lab Control Sample	82	49						

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-202L = PCB-202L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-206L = PCB-206L
PCB-169L = PCB-169L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L

PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDD2 (40-135)	TCDD (40-135)	PeCDD (40-135)	HpCDF1 (40-135)	PeCDF1 (40-135)	TCDF (40-135)	HpCDD (40-135)	OCDD (40-135)
160-5993-1	NE-B-7 0-0.5	81	77	77	82	75		86	77
160-5993-1 - RA	NE-B-7 0-0.5						69		
160-5993-2	NE-B-7 5.0-6.5	99	94	102	100	99	98	104	88
160-5993-4	DD-B-12 5-10	102	94	90	101	90	91	108	95
160-5993-6	NE-B-6 5.0-6.5	99	95	94	103	92	93	108	100
160-5993-7	NE-B-6 0-0.5	94	93	98	93	95		96	82
160-5993-7 - RA	NE-B-6 0-0.5						90		
LCS 320-38892/2-A	Lab Control Sample	102	94	99	94	96	96	97	83
MB 320-38892/1-A	Method Blank	100	96	96	96	93	93	99	79

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	HxCDF1 (40-135)
160-5993-1	NE-B-7 0-0.5	79
160-5993-1 - RA	NE-B-7 0-0.5	
160-5993-2	NE-B-7 5.0-6.5	95
160-5993-4	DD-B-12 5-10	97
160-5993-6	NE-B-6 5.0-6.5	96
160-5993-7	NE-B-6 0-0.5	96
160-5993-7 - RA	NE-B-6 0-0.5	
LCS 320-38892/2-A	Lab Control Sample	93
MB 320-38892/1-A	Method Blank	89

Surrogate Legend

HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
TCDF = 13C-2,3,7,8-TCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 160-7727-1
Client Project/Site: TIMET - CSM
Revision: 1

For:
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Attn: Mr. Marc Chartier

Kathryn Smith

Authorized for release by:
2/10/2015 11:02:20 AM

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LINKS

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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: 160-7727-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: GEI Consultants, Inc.

Project: TIMET - CSM

Report Number: 160-7727-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 08/01/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.9 C.

VOLATILE ORGANIC COMPOUNDS BY GC/MS

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for Volatile Organic Compounds by GC/MS in accordance with EPA SW-846 Method 8260C. The samples were prepared and analyzed on 08/06/2014.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 08/05/2014 and analyzed on 08/07/2014 and 08/12/2014.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and

Job ID: 160-7727-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

no corrective action is required.

Benzyl alcohol was detected in method blank MB 280-237585/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

2,4-Dinitrophenol, Benzoic acid, Hexachlorocyclopentadiene and Pentachlorophenol recovered low for the MS/MSD of sample 160-7735-2 in batch 280-237848. Di-n-octyl phthalate recovered high.

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

PCB CONGENERS

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for PCB Congeners in accordance with EPA 1668C. The samples were prepared on 08/06/2014 and analyzed on 08/11/2014.

Several analytes were detected in method blank MB 320-49235/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The following samples exhibited elevated noise or matrix interferences for one or more analytes requiring the detection limits (EDL) to be raised above the reporting limit (RL): AL-1 (160-7727-1), AL-2 (160-7727-2) . These analytes were flagged with the "G" qualifier.

The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: (160-7727-1), AL-1 (160-7727-1). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Samples AL-1 (160-7727-1)[5X] and AL-2 (160-7727-2)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

DIOXINS AND FURANS (HRGC/HRMS)

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for Dioxins and Furans (HRGC/HRMS) in accordance with SW-846 Method 8290A. The samples were prepared on 08/06/2014 and analyzed on 08/21/2014 and 08/23/2014.

Several analytes were detected in method blank MB 320-49225/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

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

TOTAL METALS (ICP)

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/04/2014 and 08/27/2014 and analyzed on 08/26/2014 and 08/28/2014.

Calcium, Magnesium and Zinc were detected in method blank MB 160-135554/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Several analytes recovered low for the MS of sample AL-1MS (160-7727-1) in batch 160-140908. Manganese failed the recovery criteria high.

For the MSD of sample AL-1MSD (160-7727-1) in batch 160-140908, Several analytes recovered low. Aluminum, Potassium and Sodium recovered high. Also, Several analytes exceeded the RPD limit.

Job ID: 160-7727-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Samples AL-1 (160-7727-1)[10X] and AL-2 (160-7727-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

METALS (ICPMS)

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 08/04/2014 and analyzed on 08/30/2014.

Niobium recovered low for the MS/MSD of sample AL-1MS/MSD (160-7727-1) in batch 160-141068.

Samples AL-1 (160-7727-1)[10X] and AL-2 (160-7727-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

MERCURY

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 08/13/2014.

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

ANIONS, ION CHROMATOGRAPHY

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for Anions, Ion Chromatography in accordance with EPA Method 300.0. The samples were leached on 08/18/2014 and analyzed on 08/18/2014.

Sample AL-1 (160-7727-1)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

PERCENT SOLIDS

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 08/06/2014 and 08/07/2014.

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

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA 900.0. The samples were leached on 08/04/2014, prepared on 08/08/2014 and analyzed on 08/12/2014.

Gross Beta was detected in method blank MB 160-136728/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

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

RADIUM-226 BY GAMMA SPEC (21 DAY INGROWTH)

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for Radium-226 by gamma spec (21 day ingrowth) in accordance with EPA 901.1. The samples were leached on 08/04/2014, prepared on 08/07/2014 and analyzed on 08/28/2014.

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

RADIUM-226 (GFPC)-21 DAY INGROWTH

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for Radium-226 (GFPC)-21 day ingrowth in accordance with EPA 903. The samples were leached on 08/04/2014, prepared on 08/06/2014 and analyzed on 08/29/2014.

Job ID: 160-7727-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

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

RADIUM-228 (GFPC)

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were leached on 08/04/2014, prepared on 08/06/2014 and analyzed on 08/29/2014.

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

ISOTOPIC THORIUM (ALPHA SPECTROMETRY)

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for Isotopic Thorium (Alpha Spectrometry) in accordance with DOE A01R_Th. The samples were leached on 08/04/2014, prepared on 08/06/2014 and analyzed on 08/12/2014.

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

ISOTOPIC URANIUM (ALPHA SPECTROMETRY)

Samples AL-1 (160-7727-1) and AL-2 (160-7727-2) were analyzed for Isotopic Uranium (Alpha Spectrometry) in accordance with DOE. The samples were leached on 08/04/2014, prepared on 08/06/2014 and analyzed on 08/12/2014.

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

LA60003 Serial Number 81359

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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PROJECT REFERENCE: CSM	PROJECT NO.	PROJECT LOCATION (STATE): NV	MATRIX TYPE
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	
CLIENT (SITE) PM: KELLY McINTOSH	CLIENT PHONE: 4045920074	CLIENT FAX	
CLIENT NAME: ANDREA BRAZELL GEI	CLIENT E-MAIL: abrazell@geiconsultants.com		
CLIENT ADDRESS: 1375 PEACHTREE ST NE Ste A15			
COMPANY CONTRACTING THIS WORK (if applicable)			

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: RADIONUCLIDES 90A, 903, 904, AM/PU A, U-NAT/TOTAL U 300, 6020	901.1 RAD	8270D SVOC	METALS 6010C/6020A, 7470B	PCB Cont/PEST DIOXINS	8260C VOC	TERRA CORE VOC	
								PRESERVATIVE							
7/30/14	1600	AL-1	G		X			1	1	2	1	1	1	1	4
7/30/14	1615	AL-2	G		X			1	1	2	1	1	1	1	4

160-7727 Chain of Custody

PAGE 1 OF

STANDARD REPORT DELIVERY: X
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE):
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
REMARKS

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	7/31	1330		7/31/14	1600 Fed Ex			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	7/31/14	1330		8-1-14	0905			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 160-7727-1

Login Number: 7727

List Source: TestAmerica St. Louis

List Number: 1

Creator: Clarke, Jill C

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 160-7727-1

Login Number: 7727
List Number: 3
Creator: Conquest, Tyler W

List Source: TestAmerica Denver
List Creation: 08/02/14 01:40 PM

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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 160-7727-1

Login Number: 7727
List Number: 2
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento
List Creation: 08/02/14 10:54 AM

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.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
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	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Dioxin

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
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.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.

General Chemistry

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

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
X	Carrier exceeds control limit

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

Method Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SL
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
1668C	Chlorinated Biphenyl Congeners (HRGC/HRMS)	EPA	TAL SAC
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL

Protocol References:

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-7727-1	AL-1	Solid	07/30/14 16:00	08/01/14 09:05
160-7727-2	AL-2	Solid	07/30/14 16:15	08/01/14 09:05

Detection Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Client Sample ID: AL-1

Lab Sample ID: 160-7727-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-18/30	76	J q	2500	44	pg/g	5	☼	1668C	Total/NA
PCB-20/28	220	J	2500	57	pg/g	5	☼	1668C	Total/NA
PCB-31	200	J	1300	53	pg/g	5	☼	1668C	Total/NA
PCB-37	410	J	1300	96	pg/g	5	☼	1668C	Total/NA
PCB-40/71	1600	J	2500	80	pg/g	5	☼	1668C	Total/NA
PCB-42	870	J q	1300	89	pg/g	5	☼	1668C	Total/NA
PCB-44/47/65	10000	B	3800	77	pg/g	5	☼	1668C	Total/NA
PCB-48	360	J	1300	82	pg/g	5	☼	1668C	Total/NA
PCB-49/69	14000		2500	67	pg/g	5	☼	1668C	Total/NA
PCB-50/53	190	J	2500	75	pg/g	5	☼	1668C	Total/NA
PCB-52	76000	B	1300	84	pg/g	5	☼	1668C	Total/NA
PCB-56	14000		1300	820	pg/g	5	☼	1668C	Total/NA
PCB-59/62/75	820	J q	3800	59	pg/g	5	☼	1668C	Total/NA
PCB-60	4400		1300	790	pg/g	5	☼	1668C	Total/NA
PCB-61/70/74/76	150000	B	5000	740	pg/g	5	☼	1668C	Total/NA
PCB-63	1300		1300	700	pg/g	5	☼	1668C	Total/NA
PCB-64	15000		1300	56	pg/g	5	☼	1668C	Total/NA
PCB-66	72000		1300	830	pg/g	5	☼	1668C	Total/NA
PCB-79	8500	q	1300	730	pg/g	5	☼	1668C	Total/NA
PCB-82	52000	G	8000	8000	pg/g	5	☼	1668C	Total/NA
PCB-83	20000	G	8600	8600	pg/g	5	☼	1668C	Total/NA
PCB-84	90000	G	7200	7200	pg/g	5	☼	1668C	Total/NA
PCB-85/116/117	85000	G	5300	5300	pg/g	5	☼	1668C	Total/NA
PCB-86/87/97/108/119/125	360000	B	7600	5500	pg/g	5	☼	1668C	Total/NA
PCB-88/91	66000	G	6100	6100	pg/g	5	☼	1668C	Total/NA
PCB-90/101/113	540000	E G B	5500	5500	pg/g	5	☼	1668C	Total/NA
PCB-92	100000	G	6500	6500	pg/g	5	☼	1668C	Total/NA
PCB-107/124	12000	G	5000	5000	pg/g	5	☼	1668C	Total/NA
PCB-95	400000	E G B	6000	6000	pg/g	5	☼	1668C	Total/NA
PCB-96	1000	J	1300	13	pg/g	5	☼	1668C	Total/NA
PCB-98/102	6600	G	5700	5700	pg/g	5	☼	1668C	Total/NA
PCB-99	230000	E G B	6400	6400	pg/g	5	☼	1668C	Total/NA
PCB-105	200000	E G B	5400	5400	pg/g	5	☼	1668C	Total/NA
PCB-110/115	790000	E G B	4900	4900	pg/g	5	☼	1668C	Total/NA
PCB-109	22000	G	4700	4700	pg/g	5	☼	1668C	Total/NA
PCB-118	390000	E G B	4800	4800	pg/g	5	☼	1668C	Total/NA
PCB-122	7300	G	5600	5600	pg/g	5	☼	1668C	Total/NA
PCB-128/166	60000		2500	1600	pg/g	5	☼	1668C	Total/NA
PCB-129/138/163	300000	B	3800	1600	pg/g	5	☼	1668C	Total/NA
PCB-130	21000	G	2100	2100	pg/g	5	☼	1668C	Total/NA
PCB-131	5000	G	2000	2000	pg/g	5	☼	1668C	Total/NA
PCB-132	130000	E G	1800	1800	pg/g	5	☼	1668C	Total/NA
PCB-133	2400	G	1800	1800	pg/g	5	☼	1668C	Total/NA
PCB-134/143	22000		2500	1900	pg/g	5	☼	1668C	Total/NA
PCB-135/151	73000		2500	1600	pg/g	5	☼	1668C	Total/NA
PCB-136	45000		1300	1200	pg/g	5	☼	1668C	Total/NA
PCB-137	15000	G	1600	1600	pg/g	5	☼	1668C	Total/NA
PCB-139/140	5300		2500	1600	pg/g	5	☼	1668C	Total/NA
PCB-141	44000	G	1700	1700	pg/g	5	☼	1668C	Total/NA
PCB-144	11000	G	1600	1600	pg/g	5	☼	1668C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AL-1 (Continued)

Lab Sample ID: 160-7727-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-146	28000	G	1700	1700	pg/g	5	☼	1668C	Total/NA
PCB-147/149	200000	B	2500	1600	pg/g	5	☼	1668C	Total/NA
PCB-153/168	150000	B	2500	1400	pg/g	5	☼	1668C	Total/NA
PCB-154	1700	G	1400	1400	pg/g	5	☼	1668C	Total/NA
PCB-156/157	37000	G	420	420	pg/g	5	☼	1668C	Total/NA
PCB-158	31000		1300	1200	pg/g	5	☼	1668C	Total/NA
PCB-162	800	J	1300	350	pg/g	5	☼	1668C	Total/NA
PCB-164	21000	G	1400	1400	pg/g	5	☼	1668C	Total/NA
PCB-167	10000	G	320	320	pg/g	5	☼	1668C	Total/NA
PCB-170	36000		1300	84	pg/g	5	☼	1668C	Total/NA
PCB-171/173	11000		2500	76	pg/g	5	☼	1668C	Total/NA
PCB-172	4700		1300	79	pg/g	5	☼	1668C	Total/NA
PCB-174	31000		1300	78	pg/g	5	☼	1668C	Total/NA
PCB-175	1000	J	1300	37	pg/g	5	☼	1668C	Total/NA
PCB-176	2900		1300	25	pg/g	5	☼	1668C	Total/NA
PCB-177	17000		1300	79	pg/g	5	☼	1668C	Total/NA
PCB-178	3800		1300	39	pg/g	5	☼	1668C	Total/NA
PCB-179	8600		1300	27	pg/g	5	☼	1668C	Total/NA
PCB-180/193	56000		2500	63	pg/g	5	☼	1668C	Total/NA
PCB-181	530	J q	1300	65	pg/g	5	☼	1668C	Total/NA
PCB-182	210	J	1300	34	pg/g	5	☼	1668C	Total/NA
PCB-183	13000		1300	58	pg/g	5	☼	1668C	Total/NA
PCB-185	2800		1300	70	pg/g	5	☼	1668C	Total/NA
PCB-187	23000		1300	36	pg/g	5	☼	1668C	Total/NA
PCB-189	1200		130	35	pg/g	5	☼	1668C	Total/NA
PCB-190	6200		1300	59	pg/g	5	☼	1668C	Total/NA
PCB-191	1300		1300	57	pg/g	5	☼	1668C	Total/NA
PCB-194	6900		1300	29	pg/g	5	☼	1668C	Total/NA
PCB-195	2600		1300	27	pg/g	5	☼	1668C	Total/NA
PCB-196	3600		1300	30	pg/g	5	☼	1668C	Total/NA
PCB-197	190	J q	1300	20	pg/g	5	☼	1668C	Total/NA
PCB-198/199	7200		2500	32	pg/g	5	☼	1668C	Total/NA
PCB-200	830	J	1300	21	pg/g	5	☼	1668C	Total/NA
PCB-201	760	J	1300	20	pg/g	5	☼	1668C	Total/NA
PCB-202	1100	J	1300	23	pg/g	5	☼	1668C	Total/NA
PCB-203	4600		1300	28	pg/g	5	☼	1668C	Total/NA
PCB-205	420	J	1300	22	pg/g	5	☼	1668C	Total/NA
PCB-206	3000		1300	24	pg/g	5	☼	1668C	Total/NA
PCB-207	660	J	1300	16	pg/g	5	☼	1668C	Total/NA
PCB-208	1000	J	1300	18	pg/g	5	☼	1668C	Total/NA
PCB-209	44000	B	1300	26	pg/g	5	☼	1668C	Total/NA
Total Trichlorobiphenyls	900	J q	13000	54	pg/g	5	☼	1668C	Total/NA
Total Tetrachlorobiphenyls	370000	q B	13000	440	pg/g	5	☼	1668C	Total/NA
Total Pentachlorobiphenyls	3400000	B	13000	5500	pg/g	5	☼	1668C	Total/NA
Total Hexachlorobiphenyls	1200000	B	13000	1400	pg/g	5	☼	1668C	Total/NA
Total Heptachlorobiphenyls	220000	q	13000	52	pg/g	5	☼	1668C	Total/NA
Total Octachlorobiphenyls	28000	q	13000	25	pg/g	5	☼	1668C	Total/NA
Total Nonachlorobiphenyls	4700	J	13000	19	pg/g	5	☼	1668C	Total/NA
Polychlorinated biphenyls, Total	5300000	q B	13000	800	pg/g	5	☼	1668C	Total/NA
2,3,7,8-TCDD	2.0	J q	13	0.59	pg/g	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AL-1 (Continued)

Lab Sample ID: 160-7727-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDF	24	J	63	2.1	pg/g	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	17	J	63	2.2	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	2.0	J	63	0.48	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	3.6	J	63	0.48	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	3.1	J q B	63	0.44	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	81	B	63	1.3	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	31	J B	63	1.2	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDF	4.2	J B	63	1.3	pg/g	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	11	J B	63	1.2	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	23	J B	63	0.65	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	300		63	1.9	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	83	B	63	2.3	pg/g	1	☼	8290A	Total/NA
OCDD	150	B	130	1.0	pg/g	1	☼	8290A	Total/NA
OCDF	9200	B	130	28	pg/g	1	☼	8290A	Total/NA
2,3,7,8-TCDF - RA	26		13	1.4	pg/g	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	86		25	8.2	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	17	J	25	2.4	ug/Kg	1	☼	8260C	Total/NA
Chloroform	1.8	J	6.3	0.48	ug/Kg	1	☼	8260C	Total/NA
Benzyl alcohol	380	J B	400	12	ug/Kg	1	☼	8270C	Total/NA
Bis(2-ethylhexyl) phthalate	150	J	400	55	ug/Kg	1	☼	8270C	Total/NA
Aluminum	12000		250	54	mg/Kg	10	☼	6010C	Total/NA
Barium	250		64	1.4	mg/Kg	10	☼	6010C	Total/NA
Beryllium	1.1	J	6.4	0.95	mg/Kg	10	☼	6010C	Total/NA
Calcium	22000	B	3200	86	mg/Kg	10	☼	6010C	Total/NA
Chromium	41		13	1.8	mg/Kg	10	☼	6010C	Total/NA
Cobalt	12	J	64	1.8	mg/Kg	10	☼	6010C	Total/NA
Copper	54		30	3.0	mg/Kg	10	☼	6010C	Total/NA
Iron	22000		130	25	mg/Kg	10	☼	6010C	Total/NA
Lead	24		13	1.6	mg/Kg	10	☼	6010C	Total/NA
Magnesium	12000	B	1300	40	mg/Kg	10	☼	6010C	Total/NA
Manganese	600		12	0.97	mg/Kg	10	☼	6010C	Total/NA
Nickel	26	J	51	1.5	mg/Kg	10	☼	6010C	Total/NA
Potassium	2500	J	6400	920	mg/Kg	10	☼	6010C	Total/NA
Sodium	810	J	1300	97	mg/Kg	10	☼	6010C	Total/NA
Titanium	1700		25	1.7	mg/Kg	10	☼	6010C	Total/NA
Vanadium	82		64	6.4	mg/Kg	10	☼	6010C	Total/NA
Zinc	100	B	64	7.1	mg/Kg	10	☼	6010C	Total/NA
Arsenic	4.9	J	6.4	1.7	mg/Kg	10	☼	6020A	Total/NA
Niobium	18		16	2.4	mg/Kg	10	☼	6020A	Total/NA
Uranium	2.1		0.64	0.13	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.55		0.042	0.014	mg/Kg	1	☼	7471B	Total/NA
Nitrate as N - DL	8.9		5.2	1.0	mg/Kg	20	☼	300.0	Soluble
Chloride - DL	280		52	5.2	mg/Kg	20	☼	300.0	Soluble
Sulfate - DL	230		130	13	mg/Kg	20	☼	300.0	Soluble

Client Sample ID: AL-2

Lab Sample ID: 160-7727-2

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1	12	J q	1100	8.0	pg/g	5	☼	1668C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AL-2 (Continued)

Lab Sample ID: 160-7727-2

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-2	10	J q	1100	9.2	pg/g	5	☼	1668C	Total/NA
PCB-3	24	J q	1100	11	pg/g	5	☼	1668C	Total/NA
PCB-20/28	400	J	2200	35	pg/g	5	☼	1668C	Total/NA
PCB-21/33	42	J	2200	32	pg/g	5	☼	1668C	Total/NA
PCB-22	91	J	1100	37	pg/g	5	☼	1668C	Total/NA
PCB-31	310	J	1100	32	pg/g	5	☼	1668C	Total/NA
PCB-32	38	J	1100	32	pg/g	5	☼	1668C	Total/NA
PCB-37	410	J	1100	65	pg/g	5	☼	1668C	Total/NA
PCB-40/71	560	J	2200	65	pg/g	5	☼	1668C	Total/NA
PCB-42	720	J	1100	72	pg/g	5	☼	1668C	Total/NA
PCB-44/47/65	7200	B	3200	62	pg/g	5	☼	1668C	Total/NA
PCB-45	130	J	1100	73	pg/g	5	☼	1668C	Total/NA
PCB-49/69	5700		2200	54	pg/g	5	☼	1668C	Total/NA
PCB-50/53	410	J	2200	61	pg/g	5	☼	1668C	Total/NA
PCB-52	34000	B	1100	68	pg/g	5	☼	1668C	Total/NA
PCB-56	1600		1100	100	pg/g	5	☼	1668C	Total/NA
PCB-60	570	J q	1100	100	pg/g	5	☼	1668C	Total/NA
PCB-61/70/74/76	9300	B	4300	94	pg/g	5	☼	1668C	Total/NA
PCB-64	2700		1100	45	pg/g	5	☼	1668C	Total/NA
PCB-66	5700		1100	110	pg/g	5	☼	1668C	Total/NA
PCB-77	600	q G	170	170	pg/g	5	☼	1668C	Total/NA
PCB-79	660	J	1100	94	pg/g	5	☼	1668C	Total/NA
PCB-82	6000	G	1200	1200	pg/g	5	☼	1668C	Total/NA
PCB-83	1800	G	1300	1300	pg/g	5	☼	1668C	Total/NA
PCB-84	10000		1100	1100	pg/g	5	☼	1668C	Total/NA
PCB-85/116/117	6900		3200	780	pg/g	5	☼	1668C	Total/NA
PCB-86/87/97/108/119/125	33000	B	6500	800	pg/g	5	☼	1668C	Total/NA
PCB-88/91	6200		2200	890	pg/g	5	☼	1668C	Total/NA
PCB-90/101/113	57000	B	3200	810	pg/g	5	☼	1668C	Total/NA
PCB-92	9600		1100	950	pg/g	5	☼	1668C	Total/NA
PCB-107/124	1300	J	2200	740	pg/g	5	☼	1668C	Total/NA
PCB-95	45000	B	1100	880	pg/g	5	☼	1668C	Total/NA
PCB-96	130	J	1100	12	pg/g	5	☼	1668C	Total/NA
PCB-99	23000	B	1100	940	pg/g	5	☼	1668C	Total/NA
PCB-105	18000	G B	840	840	pg/g	5	☼	1668C	Total/NA
PCB-110/115	65000	B	2200	720	pg/g	5	☼	1668C	Total/NA
PCB-109	2600		1100	690	pg/g	5	☼	1668C	Total/NA
PCB-118	44000	G B	740	740	pg/g	5	☼	1668C	Total/NA
PCB-122	830	J	1100	820	pg/g	5	☼	1668C	Total/NA
PCB-128/166	10000		2200	270	pg/g	5	☼	1668C	Total/NA
PCB-129/138/163	70000	B	3200	290	pg/g	5	☼	1668C	Total/NA
PCB-130	3900		1100	370	pg/g	5	☼	1668C	Total/NA
PCB-131	600	J	1100	350	pg/g	5	☼	1668C	Total/NA
PCB-132	19000		1100	330	pg/g	5	☼	1668C	Total/NA
PCB-133	560	J	1100	330	pg/g	5	☼	1668C	Total/NA
PCB-134/143	3100		2200	330	pg/g	5	☼	1668C	Total/NA
PCB-135/151	16000		2200	290	pg/g	5	☼	1668C	Total/NA
PCB-136	6100		1100	210	pg/g	5	☼	1668C	Total/NA
PCB-137	2500		1100	290	pg/g	5	☼	1668C	Total/NA
PCB-139/140	780	J	2200	280	pg/g	5	☼	1668C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AL-2 (Continued)

Lab Sample ID: 160-7727-2

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
PCB-141	13000		1100	310	pg/g	5	☼	1668C	Total/NA
PCB-144	2200		1100	290	pg/g	5	☼	1668C	Total/NA
PCB-146	7300		1100	310	pg/g	5	☼	1668C	Total/NA
PCB-147/149	43000	B	2200	280	pg/g	5	☼	1668C	Total/NA
PCB-153/168	49000	B	2200	240	pg/g	5	☼	1668C	Total/NA
PCB-154	310	J q	1100	250	pg/g	5	☼	1668C	Total/NA
PCB-156/157	8900		220	160	pg/g	5	☼	1668C	Total/NA
PCB-158	7100		1100	220	pg/g	5	☼	1668C	Total/NA
PCB-162	160	J	1100	130	pg/g	5	☼	1668C	Total/NA
PCB-164	4800		1100	240	pg/g	5	☼	1668C	Total/NA
PCB-167	2800		110	110	pg/g	5	☼	1668C	Total/NA
PCB-170	23000		1100	64	pg/g	5	☼	1668C	Total/NA
PCB-171/173	6000		2200	59	pg/g	5	☼	1668C	Total/NA
PCB-172	3400		1100	60	pg/g	5	☼	1668C	Total/NA
PCB-174	20000		1100	60	pg/g	5	☼	1668C	Total/NA
PCB-175	590	J	1100	24	pg/g	5	☼	1668C	Total/NA
PCB-176	1500		1100	16	pg/g	5	☼	1668C	Total/NA
PCB-177	11000		1100	60	pg/g	5	☼	1668C	Total/NA
PCB-178	2700		1100	25	pg/g	5	☼	1668C	Total/NA
PCB-179	5100		1100	18	pg/g	5	☼	1668C	Total/NA
PCB-180/193	47000		2200	49	pg/g	5	☼	1668C	Total/NA
PCB-181	150	J	1100	50	pg/g	5	☼	1668C	Total/NA
PCB-182	110	J	1100	22	pg/g	5	☼	1668C	Total/NA
PCB-183	9100		1100	45	pg/g	5	☼	1668C	Total/NA
PCB-185	1600		1100	54	pg/g	5	☼	1668C	Total/NA
PCB-187	17000		1100	23	pg/g	5	☼	1668C	Total/NA
PCB-189	840		110	24	pg/g	5	☼	1668C	Total/NA
PCB-190	4500		1100	45	pg/g	5	☼	1668C	Total/NA
PCB-191	1100		1100	44	pg/g	5	☼	1668C	Total/NA
PCB-194	7400		1100	24	pg/g	5	☼	1668C	Total/NA
PCB-195	2700		1100	23	pg/g	5	☼	1668C	Total/NA
PCB-196	3300		1100	27	pg/g	5	☼	1668C	Total/NA
PCB-197	250	J	1100	18	pg/g	5	☼	1668C	Total/NA
PCB-198/199	6600		2200	28	pg/g	5	☼	1668C	Total/NA
PCB-200	740	J	1100	18	pg/g	5	☼	1668C	Total/NA
PCB-201	680	J	1100	18	pg/g	5	☼	1668C	Total/NA
PCB-202	1000	J	1100	20	pg/g	5	☼	1668C	Total/NA
PCB-203	4200		1100	25	pg/g	5	☼	1668C	Total/NA
PCB-204	32	J q	1100	19	pg/g	5	☼	1668C	Total/NA
PCB-205	480	J	1100	18	pg/g	5	☼	1668C	Total/NA
PCB-206	2900		1100	22	pg/g	5	☼	1668C	Total/NA
PCB-207	1500		1100	15	pg/g	5	☼	1668C	Total/NA
PCB-208	1900		1100	17	pg/g	5	☼	1668C	Total/NA
PCB-209	110000	B	1100	27	pg/g	5	☼	1668C	Total/NA
Total Monochlorobiphenyls	46	J q	11000	9.5	pg/g	5	☼	1668C	Total/NA
Total Trichlorobiphenyls	1300	J	11000	41	pg/g	5	☼	1668C	Total/NA
Total Tetrachlorobiphenyls	70000	q B	11000	82	pg/g	5	☼	1668C	Total/NA
Total Pentachlorobiphenyls	330000	B	11000	800	pg/g	5	☼	1668C	Total/NA
Total Hexachlorobiphenyls	270000	q B	11000	250	pg/g	5	☼	1668C	Total/NA
Total Heptachlorobiphenyls	160000		11000	38	pg/g	5	☼	1668C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AL-2 (Continued)

Lab Sample ID: 160-7727-2

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total Octachlorobiphenyls	27000	q	11000	22	pg/g	5	☼	1668C	Total/NA
Total Nonachlorobiphenyls	6300	J	11000	18	pg/g	5	☼	1668C	Total/NA
Polychlorinated biphenyls, Total	970000	q B	11000	180	pg/g	5	☼	1668C	Total/NA
2,3,7,8-TCDD	2.5	J q	11	0.66	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	5.6	J	54	2.8	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	120		54	3.9	pg/g	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	57		54	4.0	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	17	J	54	0.62	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	14	J	54	0.61	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	15	J B	54	0.56	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	470	B	54	7.3	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	130	B	54	6.6	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDF	19	J B	54	7.7	pg/g	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	43	J B	54	7.0	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	200	B	54	2.9	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	1200		54	5.9	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	400	B	54	7.1	pg/g	1	☼	8290A	Total/NA
OCDD	1100	B	110	5.0	pg/g	1	☼	8290A	Total/NA
OCDF	27000	B	110	67	pg/g	1	☼	8290A	Total/NA
2,3,7,8-TCDF - RA	85		11	1.8	pg/g	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	150		32	10	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.3	J	8.1	0.40	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	21	J	32	3.1	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.76	J	8.1	0.61	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	4.7	J	8.1	0.52	ug/Kg	1	☼	8260C	Total/NA
Benzyl alcohol	210	J B	330	10	ug/Kg	1	☼	8270C	Total/NA
Bis(2-ethylhexyl) phthalate	150	J	330	46	ug/Kg	1	☼	8270C	Total/NA
Dimethyl phthalate	32	J	330	23	ug/Kg	1	☼	8270C	Total/NA
Pyrene	16	J	330	12	ug/Kg	1	☼	8270C	Total/NA
Aluminum	5300		200	43	mg/Kg	10	☼	6010C	Total/NA
Barium	480		51	1.1	mg/Kg	10	☼	6010C	Total/NA
Calcium	16000	B	2500	69	mg/Kg	10	☼	6010C	Total/NA
Chromium	120		10	1.4	mg/Kg	10	☼	6010C	Total/NA
Cobalt	7.3	J	51	1.5	mg/Kg	10	☼	6010C	Total/NA
Copper	25		24	2.3	mg/Kg	10	☼	6010C	Total/NA
Iron	9500		100	20	mg/Kg	10	☼	6010C	Total/NA
Lead	45		10	1.3	mg/Kg	10	☼	6010C	Total/NA
Magnesium	5200	B	1000	32	mg/Kg	10	☼	6010C	Total/NA
Manganese	810		9.5	0.76	mg/Kg	10	☼	6010C	Total/NA
Nickel	20	J	41	1.2	mg/Kg	10	☼	6010C	Total/NA
Potassium	1200	J	5100	740	mg/Kg	10	☼	6010C	Total/NA
Silver	0.82	J	10	0.71	mg/Kg	10	☼	6010C	Total/NA
Sodium	360	J	1000	78	mg/Kg	10	☼	6010C	Total/NA
Titanium	1300		20	1.3	mg/Kg	10	☼	6010C	Total/NA
Vanadium	120		51	5.2	mg/Kg	10	☼	6010C	Total/NA
Zinc	52	B	51	5.7	mg/Kg	10	☼	6010C	Total/NA
Arsenic	4.5	J	5.1	1.3	mg/Kg	10	☼	6020A	Total/NA
Niobium	79		13	1.9	mg/Kg	10	☼	6020A	Total/NA
Uranium	10		0.51	0.10	mg/Kg	10	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AL-2 (Continued)

Lab Sample ID: 160-7727-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.27		0.033	0.011	mg/Kg	1	☼	7471B	Total/NA
Nitrate as N	0.59		0.22	0.043	mg/Kg	1	☼	300.0	Soluble
Chloride	8.1		2.2	0.22	mg/Kg	1	☼	300.0	Soluble
Sulfate	76		5.4	0.54	mg/Kg	1	☼	300.0	Soluble

This Detection Summary does not include radiochemical test results.

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Client Sample ID: AL-1
Date Collected: 07/30/14 16:00
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-1
Matrix: Solid
Percent Solids: 77.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**86**		25	8.2	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Acetonitrile	26	U	63	26	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Benzene	0.32	U	6.3	0.32	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Bromobenzene	0.47	U	6.3	0.47	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Bromodichloromethane	0.32	U	6.3	0.32	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Bromoform	0.47	U	6.3	0.47	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Bromomethane	1.4	U	13	1.4	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
2-Butanone (MEK)	**17**	**J**	25	2.4	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Carbon disulfide	0.87	U	6.3	0.87	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Carbon tetrachloride	0.64	U	6.3	0.64	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Chlorobenzene	0.48	U	6.3	0.48	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Chlorobromomethane	1.0	U	6.3	1.0	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Chloroethane	0.66	U	13	0.66	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Chloroform	**1.8**	**J**	6.3	0.48	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Chloromethane	0.82	U	13	0.82	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
2-Chlorotoluene	0.43	U	6.3	0.43	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
4-Chlorotoluene	0.48	U	6.3	0.48	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
cis-1,2-Dichloroethene	0.76	U	6.3	0.76	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
cis-1,3-Dichloropropene	0.76	U	6.3	0.76	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Cymene	0.40	U	6.3	0.40	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Dibromochloromethane	0.52	U	6.3	0.52	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Dibromomethane	1.2	U	6.3	1.2	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,2-Dichlorobenzene	0.35	U	6.3	0.35	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,3-Dichlorobenzene	0.35	U	6.3	0.35	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,4-Dichlorobenzene	0.76	U	6.3	0.76	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Dichlorodifluoromethane	1.7	U	13	1.7	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,1-Dichloroethane	0.49	U	6.3	0.49	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,2-Dichloroethane	1.1	U	6.3	1.1	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,1-Dichloroethene	2.0	U	6.3	2.0	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,2-Dichloropropane	0.48	U	6.3	0.48	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,3-Dichloropropane	0.40	U	6.3	0.40	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
2,2-Dichloropropane	0.68	U	6.3	0.68	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,1-Dichloropropene	0.38	U	6.3	0.38	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Ethanol	78	U	320	78	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Ethylbenzene	0.38	U	6.3	0.38	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
2-Hexanone	2.2	U	25	2.2	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Isopropylbenzene	0.33	U	6.3	0.33	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Methylene Chloride	2.0	U	6.3	2.0	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Methyl iodide	1.9	U	6.3	1.9	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
4-Methyl-2-pentanone (MIBK)	0.92	U	25	0.92	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Methyl tert-butyl ether	0.61	U	6.3	0.61	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
m-Xylene & p-Xylene	0.72	U	6.3	0.72	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Naphthalene	0.62	U	6.3	0.62	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
n-Butylbenzene	0.76	U	6.3	0.76	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
N-Propylbenzene	0.40	U	6.3	0.40	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
o-Xylene	0.43	U	6.3	0.43	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
sec-Butylbenzene	0.39	U	6.3	0.39	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Styrene	0.44	U	6.3	0.44	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
tert-Butylbenzene	0.39	U	6.3	0.39	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Client Sample ID: AL-1
Date Collected: 07/30/14 16:00
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-1
Matrix: Solid
Percent Solids: 77.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.44	U	6.3	0.44	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,1,2,2-Tetrachloroethane	0.51	U	6.3	0.51	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Tetrachloroethene	0.40	U	6.3	0.40	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Toluene	0.89	U	6.3	0.89	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
trans-1,2-Dichloroethene	1.2	U	6.3	1.2	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
trans-1,3-Dichloropropene	0.44	U	6.3	0.44	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,2,3-Trichlorobenzene	0.56	U	6.3	0.56	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,2,4-Trichlorobenzene	0.54	U	6.3	0.54	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,1,1-Trichloroethane	0.54	U	6.3	0.54	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,1,2-Trichloroethane	0.72	U	6.3	0.72	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Trichloroethene	0.49	U	6.3	0.49	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Trichlorofluoromethane	0.63	U	6.3	0.63	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,2,3-Trichloropropane	0.71	U	6.3	0.71	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,2,4-Trimethylbenzene	0.76	U	6.3	0.76	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
1,3,5-Trimethylbenzene	0.39	U	6.3	0.39	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Vinyl acetate	0.99	U	6.3	0.99	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Vinyl chloride	0.54	U	6.3	0.54	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1
Xylenes, Total	1.1	U	13	1.1	ug/Kg	☼	08/06/14 07:30	08/06/14 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 150*	*08/06/14 07:30*	*08/06/14 09:24*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 126*	*08/06/14 07:30*	*08/06/14 09:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*72 - 127*	*08/06/14 07:30*	*08/06/14 09:24*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*	*08/06/14 07:30*	*08/06/14 09:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	12	U	400	12	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Acenaphthylene	20	U	400	20	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Acetophenone	24	U	400	24	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Aniline	160	U	400	160	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Anthracene	20	U	400	20	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Azobenzene	26	U	400	26	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Benzo[a]anthracene	24	U	400	24	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Benzo[a]pyrene	24	U	400	24	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Benzo[b]fluoranthene	32	U	400	32	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Benzo[g,h,i]perylene	19	U	400	19	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Benzoic acid	400	U	1900	400	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Benzo[k]fluoranthene	48	U	400	48	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Benzyl alcohol	**380**	**J B**	400	12	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Bis(2-chloroethoxy)methane	28	U	400	28	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Bis(2-chloroethyl)ether	20	U	400	20	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Bis(2-ethylhexyl) phthalate	**150**	**J**	400	55	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
4-Bromophenyl phenyl ether	23	U	400	23	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Butyl benzyl phthalate	52	U	400	52	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Carbazole	43	U	400	43	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
4-Chloroaniline	99	U	400	99	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
4-Chloro-3-methylphenol	79	U	400	79	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
2-Chloronaphthalene	12	U	400	12	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
2-Chlorophenol	25	U	400	25	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Client Sample ID: AL-1
Date Collected: 07/30/14 16:00
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-1
Matrix: Solid
Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	25	U	400	25	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Chrysene	33	U	400	33	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Dibenz(a,h)anthracene	23	U	400	23	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Dibenzofuran	24	U	400	24	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
3,3'-Dichlorobenzidine	110	U	790	110	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
2,4-Dichlorophenol	12	U	400	12	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Diethyl phthalate	31	U	790	31	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
2,4-Dimethylphenol	79	U	400	79	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Dimethyl phthalate	28	U	400	28	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Di-n-butyl phthalate	35	U	400	35	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
2,4-Dinitrophenol	400	U	1900	400	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
2,4-Dinitrotoluene	79	U	400	79	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
2,6-Dinitrotoluene	34	U	400	34	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Di-n-octyl phthalate	17	U	400	17	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
1,4-Dioxane	79	U	790	79	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
1,2-Diphenyl-hydrazine	26	U	400	26	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Fluoranthene	43	U	400	43	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Fluorene	22	U	400	22	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Hexachlorobenzene	35	U	400	35	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Hexachlorobutadiene	12	U	400	12	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Hexachlorocyclopentadiene	60	U	1900	60	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Hexachloroethane	26	U	400	26	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Indeno[1,2,3-cd]pyrene	26	U	400	26	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Isophorone	20	U	400	20	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
2-Methylnaphthalene	23	U	400	23	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
3 & 4 Methylphenol	40	U	400	40	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Naphthalene	37	U	400	37	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
2-Nitroaniline	60	U	1900	60	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
3-Nitroaniline	88	U	1900	88	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
4-Nitroaniline	87	U	1900	87	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Nitrobenzene	26	U	400	26	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
2-Nitrophenol	12	U	400	12	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
4-Nitrophenol	120	U	1900	120	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
N-Nitrosodi-n-propylamine	37	U	400	37	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
n-Nitrosodiphenylamine(as diphenylamine)	25	U	400	25	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
2,2'-oxybis[1-chloropropane]	28	U	400	28	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Pentachlorobenzene	78	U	400	78	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Pentachlorophenol	400	U	1900	400	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Phenanthrene	20	U	400	20	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Phenol	22	U	400	22	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Phthalic acid	920	U	3000	920	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
Pyrene	15	U	400	15	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
1,2,4,5-Tetrachlorobenzene	59	U	400	59	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
2,4,5-Trichlorophenol	12	U	400	12	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1
2,4,6-Trichlorophenol	12	U	400	12	ug/Kg	☼	08/05/14 22:04	08/07/14 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*50 - 120*	*08/05/14 22:04*	*08/07/14 20:40*	*1*
2-Fluorophenol	*74*		*53 - 120*	*08/05/14 22:04*	*08/07/14 20:40*	*1*

Client Sample ID: AL-1
Date Collected: 07/30/14 16:00
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-1
Matrix: Solid
Percent Solids: 77.1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*76*		*50 - 120*	*08/05/14 22:04*	*08/07/14 20:40*	*1*
Phenol-d5	*74*		*52 - 120*	*08/05/14 22:04*	*08/07/14 20:40*	*1*
Terphenyl-d14	*92*		*55 - 120*	*08/05/14 22:04*	*08/07/14 20:40*	*1*
2,4,6-Tribromophenol	*72*		*51 - 120*	*08/05/14 22:04*	*08/07/14 20:40*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	11	U	1300	11	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-2	13	U	1300	13	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-3	15	U	1300	15	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-4	280	U	1300	280	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-5	380	U	1300	380	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-6	380	U	1300	380	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-7	360	U	1300	360	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-8	370	U	1300	370	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-9	400	U	1300	400	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-10	250	U	1300	250	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-11	390	U	1300	390	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-12/13	400	U	2500	400	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-14	330	U	1300	330	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-15	570	U	1300	570	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-16	74	U	1300	74	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-17	52	U	1300	52	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-18/30	**76**	**J q**	2500	44	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-19	47	U	1300	47	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-20/28	**220**	**J**	2500	57	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-21/33	53	U	2500	53	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-22	61	U	1300	61	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-23	52	U	1300	52	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-24	38	U	1300	38	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-25	53	U	1300	53	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-26/29	54	U	2500	54	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-27	39	U	1300	39	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-31	**200**	**J**	1300	53	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-32	30	U	1300	30	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-34	54	U	1300	54	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-35	62	U	1300	62	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-36	55	U	1300	55	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-37	**410**	**J**	1300	96	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-38	59	U	1300	59	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-39	55	U	1300	55	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-40/71	**1600**	**J**	2500	80	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-41	100	U	1300	100	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-42	**870**	**J q**	1300	89	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-43	92	U	1300	92	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-44/47/65	**10000**	**B**	3800	77	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-45	90	U	1300	90	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-46	96	U	1300	96	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-48	**360**	**J**	1300	82	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Client Sample ID: AL-1
Date Collected: 07/30/14 16:00
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-1
Matrix: Solid
Percent Solids: 77.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-49/69	14000		2500	67	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-50/53	190	J	2500	75	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-51	75	U	1300	75	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-52	76000	B	1300	84	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-54	16	U	1300	16	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-55	760	U	1300	760	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-56	14000		1300	820	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-57	740	U	1300	740	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-58	750	U	1300	750	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-59/62/75	820	J q	3800	59	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-60	4400		1300	790	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-61/70/74/76	150000	B	5000	740	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-63	1300		1300	700	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-64	15000		1300	56	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-66	72000		1300	830	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-67	700	U	1300	700	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-68	670	U	1300	670	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-72	720	U	1300	720	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-73	63	U	1300	63	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-77	1200	U G	1200	1200	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-78	850	U	1300	850	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-79	8500	q	1300	730	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-80	700	U	1300	700	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-81	1100	U G	1100	1100	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-82	52000	G	8000	8000	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-83	20000	G	8600	8600	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-84	90000	G	7200	7200	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-85/116/117	85000	G	5300	5300	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-86/87/97/108/119/125	360000	B	7600	5500	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-88/91	66000	G	6100	6100	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-89	6800	U G	6800	6800	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-90/101/113	540000	E G B	5500	5500	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-92	100000	G	6500	6500	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-93/100	6100	U G	6100	6100	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-107/124	12000	G	5000	5000	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-94	6500	U G	6500	6500	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-95	400000	E G B	6000	6000	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-96	1000	J	1300	13	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-98/102	6600	G	5700	5700	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-99	230000	E G B	6400	6400	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-103	5600	U G	5600	5600	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-104	14	U	1300	14	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-105	200000	E G B	5400	5400	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-106	5500	U G	5500	5500	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-110/115	790000	E G B	4900	4900	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-109	22000	G	4700	4700	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-111	4500	U G	4500	4500	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-112	4300	U G	4300	4300	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-114	5600	U G	5600	5600	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Client Sample ID: AL-1
Date Collected: 07/30/14 16:00
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-1
Matrix: Solid
Percent Solids: 77.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-118	390000	E G B	4800	4800	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-120	4700	U G	4700	4700	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-121	4400	U G	4400	4400	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-122	7300	G	5600	5600	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-123	5400	U G	5400	5400	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-126	9400	U G	9400	9400	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-127	5500	U G	5500	5500	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-128/166	60000		2500	1600	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-129/138/163	300000	B	3800	1600	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-130	21000	G	2100	2100	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-131	5000	G	2000	2000	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-132	130000	E G	1800	1800	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-133	2400	G	1800	1800	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-134/143	22000		2500	1900	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-135/151	73000		2500	1600	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-136	45000		1300	1200	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-137	15000	G	1600	1600	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-139/140	5300		2500	1600	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-141	44000	G	1700	1700	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-142	1800	U G	1800	1800	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-144	11000	G	1600	1600	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-145	1200	U	1300	1200	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-146	28000	G	1700	1700	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-147/149	200000	B	2500	1600	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-148	1600	U G	1600	1600	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-150	1100	U	1300	1100	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-152	1100	U	1300	1100	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-153/168	150000	B	2500	1400	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-154	1700	G	1400	1400	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-155	1200	U	1300	1200	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-156/157	37000	G	420	420	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-158	31000		1300	1200	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-159	360	U	1300	360	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-160	1400	U G	1400	1400	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-161	1200	U	1300	1200	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-162	800	J	1300	350	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-164	21000	G	1400	1400	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-165	1400	U G	1400	1400	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-167	10000	G	320	320	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-169	520	U G	520	520	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-170	36000		1300	84	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-171/173	11000		2500	76	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-172	4700		1300	79	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-174	31000		1300	78	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-175	1000	J	1300	37	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-176	2900		1300	25	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-177	17000		1300	79	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-178	3800		1300	39	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-179	8600		1300	27	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Client Sample ID: AL-1
Date Collected: 07/30/14 16:00
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-1
Matrix: Solid
Percent Solids: 77.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-180/193	56000		2500	63	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-181	530	J q	1300	65	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-182	210	J	1300	34	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-183	13000		1300	58	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-184	28	U	1300	28	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-185	2800		1300	70	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-186	26	U	1300	26	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-187	23000		1300	36	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-188	26	U	1300	26	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-189	1200		130	35	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-190	6200		1300	59	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-191	1300		1300	57	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-192	59	U	1300	59	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-194	6900		1300	29	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-195	2600		1300	27	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-196	3600		1300	30	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-197	190	J q	1300	20	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-198/199	7200		2500	32	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-200	830	J	1300	21	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-201	760	J	1300	20	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-202	1100	J	1300	23	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-203	4600		1300	28	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-204	21	U	1300	21	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-205	420	J	1300	22	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-206	3000		1300	24	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-207	660	J	1300	16	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-208	1000	J	1300	18	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
PCB-209	44000	B	1300	26	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
Total Monochlorobiphenyls	15	U	13000	15	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
Total Dichlorobiphenyls	570	U	13000	570	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
Total Trichlorobiphenyls	900	J q	13000	54	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
Total Tetrachlorobiphenyls	370000	q B	13000	440	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
Total Pentachlorobiphenyls	3400000	B	13000	5500	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
Total Hexachlorobiphenyls	1200000	B	13000	1400	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
Total Heptachlorobiphenyls	220000	q	13000	52	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
Total Octachlorobiphenyls	28000	q	13000	25	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
Total Nonachlorobiphenyls	4700	J	13000	19	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5
Polychlorinated biphenyls, Total	5300000	q B	13000	800	pg/g	☼	08/06/14 17:27	08/11/14 20:33	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*54*		*5 - 145*	*08/06/14 17:27*	*08/11/14 20:33*	*5*
PCB-3L	*61*		*5 - 145*	*08/06/14 17:27*	*08/11/14 20:33*	*5*
PCB-4L	*69*		*5 - 145*	*08/06/14 17:27*	*08/11/14 20:33*	*5*
PCB-15L	*58*		*5 - 145*	*08/06/14 17:27*	*08/11/14 20:33*	*5*
PCB-19L	*69*		*5 - 145*	*08/06/14 17:27*	*08/11/14 20:33*	*5*
PCB-37L	*58*		*5 - 145*	*08/06/14 17:27*	*08/11/14 20:33*	*5*
PCB-54L	*69*		*5 - 145*	*08/06/14 17:27*	*08/11/14 20:33*	*5*
PCB-77L	*65*		*10 - 145*	*08/06/14 17:27*	*08/11/14 20:33*	*5*
PCB-81L	*68*		*10 - 145*	*08/06/14 17:27*	*08/11/14 20:33*	*5*
PCB-104L	*56*		*10 - 145*	*08/06/14 17:27*	*08/11/14 20:33*	*5*

Client Sample ID: AL-1
Date Collected: 07/30/14 16:00
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-1
Matrix: Solid
Percent Solids: 77.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-105L	80		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-114L	73		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-118L	79		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-123L	73		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-126L	70		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-155L	56		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-156L/157L	84		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-167L	78		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-169L	83		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-188L	67		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-189L	75		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-202L	76		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-205L	81		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-206L	78		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-208L	86		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-209L	75		10 - 145	08/06/14 17:27	08/11/14 20:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	61		5 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-111L	64		10 - 145	08/06/14 17:27	08/11/14 20:33	5
PCB-178L	76		10 - 145	08/06/14 17:27	08/11/14 20:33	5

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**2.0**	**J q**	13	0.59	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
1,2,3,7,8-PeCDD	3.7	U	63	3.7	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
1,2,3,7,8-PeCDF	**24**	**J**	63	2.1	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
2,3,4,7,8-PeCDF	**17**	**J**	63	2.2	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
1,2,3,4,7,8-HxCDD	**2.0**	**J**	63	0.48	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
1,2,3,6,7,8-HxCDD	**3.6**	**J**	63	0.48	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
1,2,3,7,8,9-HxCDD	**3.1**	**J q B**	63	0.44	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
1,2,3,4,7,8-HxCDF	**81**	**B**	63	1.3	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
1,2,3,6,7,8-HxCDF	**31**	**J B**	63	1.2	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
1,2,3,7,8,9-HxCDF	**4.2**	**J B**	63	1.3	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
2,3,4,6,7,8-HxCDF	**11**	**J B**	63	1.2	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
1,2,3,4,6,7,8-HpCDD	**23**	**J B**	63	0.65	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
1,2,3,4,6,7,8-HpCDF	**300**		63	1.9	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
1,2,3,4,7,8,9-HpCDF	**83**	**B**	63	2.3	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
OCDD	**150**	**B**	130	1.0	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1
OCDF	**9200**	**B**	130	28	pg/g	☼	08/06/14 16:23	08/21/14 18:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	101		40 - 135	08/06/14 16:23	08/21/14 18:20	1
13C-2,3,7,8-TCDF	100		40 - 135	08/06/14 16:23	08/21/14 18:20	1
13C-1,2,3,7,8-PeCDD	109		40 - 135	08/06/14 16:23	08/21/14 18:20	1
13C-1,2,3,7,8-PeCDF	104		40 - 135	08/06/14 16:23	08/21/14 18:20	1
13C-1,2,3,6,7,8-HxCDD	104		40 - 135	08/06/14 16:23	08/21/14 18:20	1
13C-1,2,3,4,7,8-HxCDF	86		40 - 135	08/06/14 16:23	08/21/14 18:20	1
13C-1,2,3,4,6,7,8-HpCDD	105		40 - 135	08/06/14 16:23	08/21/14 18:20	1
13C-1,2,3,4,6,7,8-HpCDF	103		40 - 135	08/06/14 16:23	08/21/14 18:20	1
13C-OCDD	118		40 - 135	08/06/14 16:23	08/21/14 18:20	1

Client Sample ID: AL-1

Date Collected: 07/30/14 16:00
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-1

Matrix: Solid
Percent Solids: 77.1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	26		13	1.4	pg/g	☼	08/06/14 16:23	08/23/14 02:11	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*103*		*40 - 135*	*08/06/14 16:23*	*08/23/14 02:11*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		250	54	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Antimony	3.9	U	13	3.9	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Barium	250		64	1.4	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Beryllium	1.1	J	6.4	0.95	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Cadmium	0.43	U	6.4	0.43	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Calcium	22000	B	3200	86	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Chromium	41		13	1.8	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Cobalt	12	J	64	1.8	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Copper	54		30	3.0	mg/Kg	☼	08/27/14 09:22	08/28/14 17:39	10
Iron	22000		130	25	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Lead	24		13	1.6	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Magnesium	12000	B	1300	40	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Manganese	600		12	0.97	mg/Kg	☼	08/27/14 09:22	08/28/14 17:39	10
Nickel	26	J	51	1.5	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Potassium	2500	J	6400	920	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Selenium	2.6	U	19	2.6	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Silver	0.89	U	13	0.89	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Sodium	810	J	1300	97	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Titanium	1700		25	1.7	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Vanadium	82		64	6.4	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10
Zinc	100	B	64	7.1	mg/Kg	☼	08/04/14 11:10	08/26/14 14:36	10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9	J	6.4	1.7	mg/Kg	☼	08/04/14 11:13	08/30/14 02:53	10
Niobium	18		16	2.4	mg/Kg	☼	08/04/14 11:13	08/30/14 02:53	10
Thallium	0.97	U	3.2	0.97	mg/Kg	☼	08/04/14 11:13	08/30/14 02:53	10
Uranium	2.1		0.64	0.13	mg/Kg	☼	08/04/14 11:13	08/30/14 02:53	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.55		0.042	0.014	mg/Kg	☼	08/13/14 12:07	08/13/14 18:18	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	8.9		5.2	1.0	mg/Kg	☼		08/18/14 14:09	20
Chloride	280		52	5.2	mg/Kg	☼		08/18/14 14:09	20
Sulfate	230		130	13	mg/Kg	☼		08/18/14 14:09	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	34.3		6.57	7.64	10.0	4.74	pCi/g	08/08/14 10:06	08/12/14 18:09	1

Client Sample ID: AL-1
Date Collected: 07/30/14 16:00
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-1
Matrix: Solid

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	**33.6**		3.85	5.11	10.0	3.61	pCi/g	08/08/14 10:06	08/12/14 18:09	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium 228	**1.57**		0.280	0.323		0.323	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Bismuth-212	**1.60**		0.777	0.795		1.08	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Bismuth-214	**1.54**		0.234	0.283		0.172	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Bismuth-210M	0.0719	U	0.0659	0.0664		0.118	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Cesium-134	0.0353	U	0.0316	0.0319		0.156	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Cesium-137	0.000	U	0.0367	0.0367		0.105	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Cobalt-57	-0.00585	U	0.0444	0.0444		0.0756	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Cobalt-60	-0.00100	U	0.0561	0.0561		0.105	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Lead-212	**1.83**		0.173	0.294		0.155	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Lead-214	**1.54**		0.201	0.257		0.175	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Potassium-40	**23.5**		2.19	3.25		0.858	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Protactinium-231	-1.28	U	1.56	1.57		2.57	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Protactinium-234	-0.0367	U	0.0788	0.0789		0.400	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Radium-224	**2.45**		1.35	1.39		2.11	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Thallium-208	**0.591**		0.0959	0.114		0.0700	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Thorium-227	0.0645	U	0.157	0.157		1.97	pCi/g	08/07/14 10:52	08/28/14 02:43	1
Thorium-234	1.50	U	0.734	0.750		2.13	pCi/g	08/07/14 10:52	08/28/14 02:43	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.51**		0.294	0.324	1.00	0.241	pCi/g	08/06/14 14:42	08/29/14 14:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*116*	*X*	*40 - 110*	*08/06/14 14:42*	*08/29/14 14:49*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.00**		0.251	0.267	1.00	0.310	pCi/g	08/06/14 15:00	08/29/14 09:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*116*	*X*	*40 - 110*	*08/06/14 15:00*	*08/29/14 09:59*	*1*
Y Carrier	*91.6*		*40 - 110*	*08/06/14 15:00*	*08/29/14 09:59*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**1.68**		0.282	0.315	1.00	0.110	pCi/g	08/06/14 13:51	08/12/14 15:59	1
Thorium-230	**1.23**		0.240	0.261	1.00	0.0786	pCi/g	08/06/14 13:51	08/12/14 15:59	1

Client Sample ID: AL-1

Date Collected: 07/30/14 16:00
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-1

Matrix: Solid

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-232	**1.68**		0.279	0.313	1.00	0.0816	pCi/g	08/06/14 13:51	08/12/14 15:59	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*83.9*		*30 - 110*	*08/06/14 13:51*	*08/12/14 15:59*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.22**		0.246	0.266	1.00	0.110	pCi/g	08/06/14 13:51	08/12/14 16:00	1
Uranium-235/236	0.0363	U	0.0525	0.0526	1.00	0.0847	pCi/g	08/06/14 13:51	08/12/14 16:00	1
Uranium-238	**1.10**		0.234	0.251	1.00	0.110	pCi/g	08/06/14 13:51	08/12/14 16:00	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*81.1*		*30 - 110*	*08/06/14 13:51*	*08/12/14 16:00*	*1*

Client Sample ID: AL-2

Date Collected: 07/30/14 16:15
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-2

Matrix: Solid
Percent Solids: 91.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**150**		32	10	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Acetonitrile	33	U	81	33	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Benzene	**1.3**	**J**	8.1	0.40	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Bromobenzene	0.60	U	8.1	0.60	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Bromodichloromethane	0.40	U	8.1	0.40	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Bromoform	0.60	U	8.1	0.60	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Bromomethane	1.8	U	16	1.8	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
2-Butanone (MEK)	**21**	**J**	32	3.1	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Carbon disulfide	1.1	U	8.1	1.1	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Carbon tetrachloride	0.82	U	8.1	0.82	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Chlorobenzene	0.61	U	8.1	0.61	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Chlorobromomethane	1.3	U	8.1	1.3	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Chloroethane	0.84	U	16	0.84	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Chloroform	**0.76**	**J**	8.1	0.61	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Chloromethane	1.0	U	16	1.0	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
2-Chlorotoluene	0.55	U	8.1	0.55	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
4-Chlorotoluene	0.61	U	8.1	0.61	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
cis-1,2-Dichloroethene	0.97	U	8.1	0.97	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
cis-1,3-Dichloropropene	0.97	U	8.1	0.97	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Cymene	0.52	U	8.1	0.52	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Dibromochloromethane	0.66	U	8.1	0.66	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Dibromomethane	1.6	U	8.1	1.6	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,2-Dichlorobenzene	0.45	U	8.1	0.45	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,3-Dichlorobenzene	0.45	U	8.1	0.45	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,4-Dichlorobenzene	0.97	U	8.1	0.97	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Dichlorodifluoromethane	2.1	U	16	2.1	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Client Sample ID: AL-2
Date Collected: 07/30/14 16:15
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-2
Matrix: Solid
Percent Solids: 91.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.63	U	8.1	0.63	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,2-Dichloroethane	1.4	U	8.1	1.4	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,1-Dichloroethene	2.6	U	8.1	2.6	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,2-Dichloropropane	0.61	U	8.1	0.61	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,3-Dichloropropane	0.52	U	8.1	0.52	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
2,2-Dichloropropane	0.87	U	8.1	0.87	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,1-Dichloropropene	0.48	U	8.1	0.48	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Ethanol	99	U	400	99	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Ethylbenzene	0.48	U	8.1	0.48	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
2-Hexanone	2.9	U	32	2.9	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Isopropylbenzene	0.42	U	8.1	0.42	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Methylene Chloride	2.5	U	8.1	2.5	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Methyl iodide	2.4	U	8.1	2.4	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
4-Methyl-2-pentanone (MIBK)	1.2	U	32	1.2	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Methyl tert-butyl ether	0.77	U	8.1	0.77	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
m-Xylene & p-Xylene	0.92	U	8.1	0.92	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Naphthalene	0.79	U	8.1	0.79	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
n-Butylbenzene	0.97	U	8.1	0.97	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
N-Propylbenzene	0.52	U	8.1	0.52	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
o-Xylene	0.55	U	8.1	0.55	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
sec-Butylbenzene	0.50	U	8.1	0.50	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Styrene	0.56	U	8.1	0.56	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
tert-Butylbenzene	0.50	U	8.1	0.50	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,1,1,2-Tetrachloroethane	0.56	U	8.1	0.56	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,1,2,2-Tetrachloroethane	0.64	U	8.1	0.64	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Tetrachloroethene	**4.7**	**J**	8.1	0.52	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Toluene	1.1	U	8.1	1.1	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
trans-1,2-Dichloroethene	1.5	U	8.1	1.5	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
trans-1,3-Dichloropropene	0.56	U	8.1	0.56	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,2,3-Trichlorobenzene	0.71	U	8.1	0.71	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,2,4-Trichlorobenzene	0.69	U	8.1	0.69	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,1,1-Trichloroethane	0.69	U	8.1	0.69	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,1,2-Trichloroethane	0.92	U	8.1	0.92	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Trichloroethene	0.63	U	8.1	0.63	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Trichlorofluoromethane	0.81	U	8.1	0.81	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,2,3-Trichloropropane	0.90	U	8.1	0.90	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,2,4-Trimethylbenzene	0.97	U	8.1	0.97	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
1,3,5-Trimethylbenzene	0.50	U	8.1	0.50	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Vinyl acetate	1.3	U	8.1	1.3	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Vinyl chloride	0.69	U	8.1	0.69	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1
Xylenes, Total	1.4	U	16	1.4	ug/Kg	☼	08/06/14 07:30	08/06/14 10:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*63 - 150*	*08/06/14 07:30*	*08/06/14 10:14*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 126*	*08/06/14 07:30*	*08/06/14 10:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*72 - 127*	*08/06/14 07:30*	*08/06/14 10:14*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*08/06/14 07:30*	*08/06/14 10:14*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Client Sample ID: AL-2
Date Collected: 07/30/14 16:15
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-2
Matrix: Solid
Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	10	U	330	10	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Acenaphthylene	17	U	330	17	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Acetophenone	20	U	330	20	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Aniline	130	U	330	130	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Anthracene	17	U	330	17	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Azobenzene	22	U	330	22	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Benzo[a]anthracene	20	U	330	20	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Benzo[a]pyrene	20	U	330	20	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Benzo[b]fluoranthene	26	U	330	26	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Benzo[g,h,i]perylene	16	U	330	16	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Benzoic acid	330	U	1600	330	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Benzo[k]fluoranthene	40	U	330	40	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Benzyl alcohol	**210**	**J B**	330	10	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Bis(2-chloroethoxy)methane	23	U	330	23	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Bis(2-chloroethyl)ether	17	U	330	17	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Bis(2-ethylhexyl) phthalate	**150**	**J**	330	46	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
4-Bromophenyl phenyl ether	19	U	330	19	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Butyl benzyl phthalate	43	U	330	43	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Carbazole	36	U	330	36	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
4-Chloroaniline	82	U	330	82	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
4-Chloro-3-methylphenol	66	U	330	66	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
2-Chloronaphthalene	10	U	330	10	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
2-Chlorophenol	21	U	330	21	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
4-Chlorophenyl phenyl ether	21	U	330	21	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Chrysene	27	U	330	27	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Dibenz(a,h)anthracene	19	U	330	19	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Dibenzofuran	20	U	330	20	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
3,3'-Dichlorobenzidine	90	U	660	90	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
2,4-Dichlorophenol	10	U	330	10	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Diethyl phthalate	26	U	660	26	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
2,4-Dimethylphenol	66	U	330	66	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Dimethyl phthalate	**32**	**J**	330	23	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Di-n-butyl phthalate	29	U	330	29	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
2,4-Dinitrophenol	330	U	1600	330	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
2,4-Dinitrotoluene	66	U	330	66	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
2,6-Dinitrotoluene	28	U	330	28	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Di-n-octyl phthalate	14	U	330	14	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
1,4-Dioxane	66	U	660	66	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
1,2-Diphenyl-hydrazine	22	U	330	22	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Fluoranthene	36	U	330	36	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Fluorene	18	U	330	18	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Hexachlorobenzene	29	U	330	29	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Hexachlorobutadiene	10	U	330	10	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Hexachlorocyclopentadiene	50	U	1600	50	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Hexachloroethane	21	U	330	21	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Indeno[1,2,3-cd]pyrene	22	U	330	22	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Isophorone	17	U	330	17	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
2-Methylnaphthalene	19	U	330	19	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
3 & 4 Methylphenol	33	U	330	33	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1

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Lab Sample ID: 160-7727-2
Matrix: Solid
Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	31	U	330	31	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
2-Nitroaniline	50	U	1600	50	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
3-Nitroaniline	73	U	1600	73	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
4-Nitroaniline	72	U	1600	72	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Nitrobenzene	22	U	330	22	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
2-Nitrophenol	10	U	330	10	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
4-Nitrophenol	97	U	1600	97	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
N-Nitrosodi-n-propylamine	31	U	330	31	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
n-Nitrosodiphenylamine(as diphenylamine)	21	U	330	21	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
2,2'-oxybis[1-chloropropane]	23	U	330	23	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Pentachlorobenzene	65	U	330	65	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Pentachlorophenol	330	U	1600	330	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Phenanthrene	17	U	330	17	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Phenol	18	U	330	18	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Phthalic acid	760	U	2500	760	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
Pyrene	**16**	**J**	330	12	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
1,2,4,5-Tetrachlorobenzene	49	U	330	49	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
2,4,5-Trichlorophenol	10	U	330	10	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1
2,4,6-Trichlorophenol	10	U	330	10	ug/Kg	☼	08/05/14 22:04	08/12/14 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*50 - 120*	*08/05/14 22:04*	*08/12/14 17:02*	*1*
2-Fluorophenol	*77*		*53 - 120*	*08/05/14 22:04*	*08/12/14 17:02*	*1*
Nitrobenzene-d5	*81*		*50 - 120*	*08/05/14 22:04*	*08/12/14 17:02*	*1*
Phenol-d5	*79*		*52 - 120*	*08/05/14 22:04*	*08/12/14 17:02*	*1*
Terphenyl-d14	*92*		*55 - 120*	*08/05/14 22:04*	*08/12/14 17:02*	*1*
2,4,6-Tribromophenol	*64*		*51 - 120*	*08/05/14 22:04*	*08/12/14 17:02*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**12**	**J q**	1100	8.0	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-2	**10**	**J q**	1100	9.2	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-3	**24**	**J q**	1100	11	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-4	170	U	1100	170	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-5	310	U	1100	310	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-6	310	U	1100	310	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-7	290	U	1100	290	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-8	310	U	1100	310	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-9	330	U	1100	330	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-10	150	U	1100	150	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-11	320	U	1100	320	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-12/13	330	U	2200	330	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-14	270	U	1100	270	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-15	470	U	1100	470	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-16	78	U	1100	78	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-17	55	U	1100	55	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-18/30	47	U	2200	47	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-19	47	U	1100	47	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-20/28	**400**	**J**	2200	35	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5

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Lab Sample ID: 160-7727-2
Matrix: Solid
Percent Solids: 91.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-21/33	42	J	2200	32	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-22	91	J	1100	37	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-23	31	U	1100	31	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-24	41	U	1100	41	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-25	32	U	1100	32	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-26/29	33	U	2200	33	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-27	41	U	1100	41	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-31	310	J	1100	32	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-32	38	J	1100	32	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-34	33	U	1100	33	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-35	38	U	1100	38	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-36	33	U	1100	33	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-37	410	J	1100	65	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-38	36	U	1100	36	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-39	33	U	1100	33	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-40/71	560	J	2200	65	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-41	84	U	1100	84	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-42	720	J	1100	72	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-43	74	U	1100	74	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-44/47/65	7200	B	3200	62	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-45	130	J	1100	73	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-46	77	U	1100	77	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-48	66	U	1100	66	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-49/69	5700		2200	54	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-50/53	410	J	2200	61	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-51	61	U	1100	61	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-52	34000	B	1100	68	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-54	14	U	1100	14	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-55	97	U	1100	97	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-56	1600		1100	100	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-57	95	U	1100	95	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-58	96	U	1100	96	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-59/62/75	48	U	3200	48	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-60	570	J q	1100	100	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-61/70/74/76	9300	B	4300	94	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-63	89	U	1100	89	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-64	2700		1100	45	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-66	5700		1100	110	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-67	89	U	1100	89	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-68	85	U	1100	85	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-72	92	U	1100	92	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-73	51	U	1100	51	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-77	600	q G	170	170	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-78	110	U	1100	110	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-79	660	J	1100	94	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-80	89	U	1100	89	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-81	150	U G	150	150	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-82	6000	G	1200	1200	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-83	1800	G	1300	1300	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5

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Lab Sample ID: 160-7727-2
Matrix: Solid
Percent Solids: 91.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-84	10000		1100	1100	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-85/116/117	6900		3200	780	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-86/87/97/108/119/125	33000	B	6500	800	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-88/91	6200		2200	890	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-89	1000	U	1100	1000	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-90/101/113	57000	B	3200	810	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-92	9600		1100	950	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-93/100	900	U	2200	900	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-107/124	1300	J	2200	740	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-94	950	U	1100	950	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-95	45000	B	1100	880	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-96	130	J	1100	12	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-98/102	830	U	2200	830	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-99	23000	B	1100	940	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-103	830	U	1100	830	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-104	12	U	1100	12	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-105	18000	G B	840	840	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-106	800	U	1100	800	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-110/115	65000	B	2200	720	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-109	2600		1100	690	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-111	650	U	1100	650	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-112	630	U	1100	630	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-114	820	U G	820	820	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-118	44000	G B	740	740	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-120	700	U	1100	700	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-121	650	U	1100	650	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-122	830	J	1100	820	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-123	800	U G	800	800	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-126	1200	U G	1200	1200	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-127	800	U	1100	800	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-128/166	10000		2200	270	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-129/138/163	70000	B	3200	290	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-130	3900		1100	370	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-131	600	J	1100	350	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-132	19000		1100	330	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-133	560	J	1100	330	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-134/143	3100		2200	330	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-135/151	16000		2200	290	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-136	6100		1100	210	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-137	2500		1100	290	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-139/140	780	J	2200	280	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-141	13000		1100	310	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-142	320	U	1100	320	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-144	2200		1100	290	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-145	210	U	1100	210	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-146	7300		1100	310	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-147/149	43000	B	2200	280	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-148	280	U	1100	280	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-150	190	U	1100	190	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Client Sample ID: AL-2
Date Collected: 07/30/14 16:15
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-2
Matrix: Solid
Percent Solids: 91.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-152	200	U	1100	200	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-153/168	49000	B	2200	240	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-154	310	J q	1100	250	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-155	210	U	1100	210	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-156/157	8900		220	160	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-158	7100		1100	220	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-159	130	U	1100	130	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-160	250	U	1100	250	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-161	220	U	1100	220	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-162	160	J	1100	130	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-164	4800		1100	240	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-165	250	U	1100	250	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-167	2800		110	110	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-169	190	U G	190	190	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-170	23000		1100	64	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-171/173	6000		2200	59	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-172	3400		1100	60	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-174	20000		1100	60	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-175	590	J	1100	24	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-176	1500		1100	16	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-177	11000		1100	60	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-178	2700		1100	25	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-179	5100		1100	18	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-180/193	47000		2200	49	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-181	150	J	1100	50	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-182	110	J	1100	22	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-183	9100		1100	45	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-184	18	U	1100	18	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-185	1600		1100	54	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-186	17	U	1100	17	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-187	17000		1100	23	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-188	17	U	1100	17	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-189	840		110	24	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-190	4500		1100	45	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-191	1100		1100	44	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-192	45	U	1100	45	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-194	7400		1100	24	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-195	2700		1100	23	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-196	3300		1100	27	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-197	250	J	1100	18	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-198/199	6600		2200	28	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-200	740	J	1100	18	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-201	680	J	1100	18	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-202	1000	J	1100	20	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-203	4200		1100	25	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-204	32	J q	1100	19	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-205	480	J	1100	18	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-206	2900		1100	22	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-207	1500		1100	15	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5

Client Sample ID: AL-2
Date Collected: 07/30/14 16:15
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-2
Matrix: Solid
Percent Solids: 91.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-208	1900		1100	17	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
PCB-209	110000	B	1100	27	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
Total Monochlorobiphenyls	46	J q	11000	9.5	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
Total Dichlorobiphenyls	470	U	11000	470	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
Total Trichlorobiphenyls	1300	J	11000	41	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
Total Tetrachlorobiphenyls	70000	q B	11000	82	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
Total Pentachlorobiphenyls	330000	B	11000	800	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
Total Hexachlorobiphenyls	270000	q B	11000	250	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
Total Heptachlorobiphenyls	160000		11000	38	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
Total Octachlorobiphenyls	27000	q	11000	22	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
Total Nonachlorobiphenyls	6300	J	11000	18	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5
Polychlorinated biphenyls, Total	970000	q B	11000	180	pg/g	☼	08/06/14 17:27	08/11/14 23:04	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*56*		*5 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-3L	*60*		*5 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-4L	*67*		*5 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-15L	*60*		*5 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-19L	*73*		*5 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-37L	*52*		*5 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-54L	*69*		*5 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-77L	*61*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-81L	*63*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-104L	*60*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-105L	*76*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-114L	*78*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-118L	*78*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-123L	*74*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-126L	*77*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-155L	*65*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-156L/157L	*95*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-167L	*94*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-169L	*102*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-188L	*71*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-189L	*78*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-202L	*86*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-205L	*91*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-206L	*89*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-208L	*97*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-209L	*86*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*64*		*5 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-111L	*68*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*
PCB-178L	*89*		*10 - 145*	*08/06/14 17:27*	*08/11/14 23:04*	*5*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	2.5	J q	11	0.66	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
1,2,3,7,8-PeCDD	5.6	J	54	2.8	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
1,2,3,7,8-PeCDF	120		54	3.9	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1

Client Sample ID: AL-2

Date Collected: 07/30/14 16:15
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-2

Matrix: Solid
Percent Solids: 91.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,7,8-PeCDF	57		54	4.0	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
1,2,3,4,7,8-HxCDD	17	J	54	0.62	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
1,2,3,6,7,8-HxCDD	14	J	54	0.61	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
1,2,3,7,8,9-HxCDD	15	J B	54	0.56	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
1,2,3,4,7,8-HxCDF	470	B	54	7.3	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
1,2,3,6,7,8-HxCDF	130	B	54	6.6	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
1,2,3,7,8,9-HxCDF	19	J B	54	7.7	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
2,3,4,6,7,8-HxCDF	43	J B	54	7.0	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
1,2,3,4,6,7,8-HpCDD	200	B	54	2.9	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
1,2,3,4,6,7,8-HpCDF	1200		54	5.9	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
1,2,3,4,7,8,9-HpCDF	400	B	54	7.1	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
OCDD	1100	B	110	5.0	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1
OCDF	27000	B	110	67	pg/g	☼	08/06/14 16:23	08/21/14 19:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*97*		*40 - 135*	*08/06/14 16:23*	*08/21/14 19:03*	*1*
13C-2,3,7,8-TCDF	*93*		*40 - 135*	*08/06/14 16:23*	*08/21/14 19:03*	*1*
13C-1,2,3,7,8-PeCDD	*92*		*40 - 135*	*08/06/14 16:23*	*08/21/14 19:03*	*1*
13C-1,2,3,7,8-PeCDF	*107*		*40 - 135*	*08/06/14 16:23*	*08/21/14 19:03*	*1*
13C-1,2,3,6,7,8-HxCDD	*100*		*40 - 135*	*08/06/14 16:23*	*08/21/14 19:03*	*1*
13C-1,2,3,4,7,8-HxCDF	*83*		*40 - 135*	*08/06/14 16:23*	*08/21/14 19:03*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*102*		*40 - 135*	*08/06/14 16:23*	*08/21/14 19:03*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*98*		*40 - 135*	*08/06/14 16:23*	*08/21/14 19:03*	*1*
13C-OCDD	*93*		*40 - 135*	*08/06/14 16:23*	*08/21/14 19:03*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	85		11	1.8	pg/g	☼	08/06/14 16:23	08/23/14 02:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*97*		*40 - 135*	*08/06/14 16:23*	*08/23/14 02:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5300		200	43	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Antimony	3.2	U	10	3.2	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Barium	480		51	1.1	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Beryllium	0.76	U	5.1	0.76	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Cadmium	0.35	U	5.1	0.35	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Calcium	16000	B	2500	69	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Chromium	120		10	1.4	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Cobalt	7.3	J	51	1.5	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Copper	25		24	2.3	mg/Kg	☼	08/27/14 09:22	08/28/14 17:55	10
Iron	9500		100	20	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Lead	45		10	1.3	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Magnesium	5200	B	1000	32	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Manganese	810		9.5	0.76	mg/Kg	☼	08/27/14 09:22	08/28/14 17:55	10
Nickel	20	J	41	1.2	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Potassium	1200	J	5100	740	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Selenium	2.1	U	15	2.1	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Silver	0.82	J	10	0.71	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10

Client Sample ID: AL-2
Date Collected: 07/30/14 16:15
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-2
Matrix: Solid
Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	360	J	1000	78	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Titanium	1300		20	1.3	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Vanadium	120		51	5.2	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10
Zinc	52	B	51	5.7	mg/Kg	☼	08/04/14 11:10	08/26/14 14:51	10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5	J	5.1	1.3	mg/Kg	☼	08/04/14 11:13	08/30/14 03:20	10
Niobium	79		13	1.9	mg/Kg	☼	08/04/14 11:13	08/30/14 03:20	10
Thallium	0.78	U	2.5	0.78	mg/Kg	☼	08/04/14 11:13	08/30/14 03:20	10
Uranium	10		0.51	0.10	mg/Kg	☼	08/04/14 11:13	08/30/14 03:20	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.033	0.011	mg/Kg	☼	08/13/14 12:07	08/13/14 18:27	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.59		0.22	0.043	mg/Kg	☼		08/18/14 15:10	1
Chloride	8.1		2.2	0.22	mg/Kg	☼		08/18/14 15:10	1
Sulfate	76		5.4	0.54	mg/Kg	☼		08/18/14 15:10	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	229		16.8	31.1	10.0	4.65	pCi/g	08/08/14 10:06	08/12/14 18:09	1
Gross Beta	98.3		6.93	12.0	10.0	5.49	pCi/g	08/08/14 10:06	08/12/14 18:09	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium 228	2.95		0.577	0.650		0.691	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Bismuth-212	2.23	U	1.53	1.55		2.41	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Bismuth-214	16.5		0.803	1.89		0.716	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Bismuth-210M	0.0590	U	0.132	0.132		0.330	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Cesium-134	0.115	U	0.160	0.160		1.13	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Cesium-137	0.0134	U	0.142	0.142		0.244	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Cobalt-57	0.00602	U	0.0893	0.0893		0.152	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Cobalt-60	-0.00837	U	0.0250	0.0250		0.219	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Lead-212	2.53		0.285	0.434		0.361	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Lead-214	20.7		0.733	2.28		0.526	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Potassium-40	21.1		2.85	3.58		1.82	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Protactinium-231	0.300	U	0.670	0.671		6.64	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Protactinium-234	0.00529	U	0.00784	0.00786		0.867	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Radium-224	6.77		3.93	4.03		6.37	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Thallium-208	0.822		0.175	0.194		0.178	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Thorium-227	-2.12	U	1.36	1.39		2.21	pCi/g	08/07/14 10:52	08/28/14 03:17	1
Thorium-234	3.40	U	3.66	3.68		6.04	pCi/g	08/07/14 10:52	08/28/14 03:17	1

Client Sample ID: AL-2
Date Collected: 07/30/14 16:15
Date Received: 08/01/14 09:05

Lab Sample ID: 160-7727-2
Matrix: Solid

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	19.7		0.978	2.02	1.00	0.208	pCi/g	08/06/14 14:42	08/29/14 14:50	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	118	X	40 - 110	08/06/14 14:42	08/29/14 14:50	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.13		0.248	0.269	1.00	0.274	pCi/g	08/06/14 15:00	08/29/14 10:00	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	118	X	40 - 110	08/06/14 15:00	08/29/14 10:00	1
Y Carrier	88.6		40 - 110	08/06/14 15:00	08/29/14 10:00	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	1.13		0.206	0.227	1.00	0.0774	pCi/g	08/06/14 13:51	08/12/14 15:59	1
Thorium-230	3.76		0.374	0.489	1.00	0.0564	pCi/g	08/06/14 13:51	08/12/14 15:59	1
Thorium-232	1.18		0.208	0.231	1.00	0.0454	pCi/g	08/06/14 13:51	08/12/14 15:59	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	106		30 - 110	08/06/14 13:51	08/12/14 15:59	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	3.96		0.440	0.552	1.00	0.145	pCi/g	08/06/14 13:51	08/12/14 16:00	1
Uranium-235/236	0.192		0.116	0.117	1.00	0.121	pCi/g	08/06/14 13:51	08/12/14 16:00	1
Uranium-238	3.54		0.415	0.510	1.00	0.139	pCi/g	08/06/14 13:51	08/12/14 16:00	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	77.6		30 - 110	08/06/14 13:51	08/12/14 16:00	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 160-136022/1-A
Matrix: Solid
Analysis Batch: 137777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.5	U	20	6.5	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Acetonitrile	20	U	50	20	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Benzene	0.25	U	5.0	0.25	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Bromobenzene	0.37	U	5.0	0.37	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Bromodichloromethane	0.25	U	5.0	0.25	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Bromoform	0.37	U	5.0	0.37	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Bromomethane	1.1	U	10	1.1	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
2-Butanone (MEK)	1.9	U	20	1.9	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Carbon disulfide	0.69	U	5.0	0.69	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Carbon tetrachloride	0.51	U	5.0	0.51	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Chlorobenzene	0.38	U	5.0	0.38	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Chlorobromomethane	0.82	U	5.0	0.82	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Chloroethane	0.52	U	10	0.52	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Chloroform	0.38	U	5.0	0.38	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Chloromethane	0.65	U	10	0.65	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
2-Chlorotoluene	0.34	U	5.0	0.34	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
4-Chlorotoluene	0.38	U	5.0	0.38	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
cis-1,2-Dichloroethene	0.60	U	5.0	0.60	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
cis-1,3-Dichloropropene	0.60	U	5.0	0.60	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Cymene	0.32	U	5.0	0.32	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Dibromochloromethane	0.41	U	5.0	0.41	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Dibromomethane	0.97	U	5.0	0.97	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,2-Dichlorobenzene	0.28	U	5.0	0.28	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,4-Dichlorobenzene	0.60	U	5.0	0.60	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Dichlorodifluoromethane	1.3	U	10	1.3	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,1-Dichloroethane	0.39	U	5.0	0.39	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,2-Dichloroethane	0.87	U	5.0	0.87	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,1-Dichloroethene	1.6	U	5.0	1.6	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,2-Dichloropropane	0.38	U	5.0	0.38	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,3-Dichloropropane	0.32	U	5.0	0.32	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
2,2-Dichloropropane	0.54	U	5.0	0.54	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,1-Dichloropropene	0.30	U	5.0	0.30	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Ethanol	61	U	250	61	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Ethylbenzene	0.30	U	5.0	0.30	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
2-Hexanone	1.8	U	20	1.8	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Isopropylbenzene	0.26	U	5.0	0.26	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Methylene Chloride	1.6	U	5.0	1.6	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Methyl iodide	1.5	U	5.0	1.5	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
4-Methyl-2-pentanone (MIBK)	0.73	U	20	0.73	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Methyl tert-butyl ether	0.48	U	5.0	0.48	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
m-Xylene & p-Xylene	0.57	U	5.0	0.57	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Naphthalene	0.49	U	5.0	0.49	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
n-Butylbenzene	0.60	U	5.0	0.60	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
N-Propylbenzene	0.32	U	5.0	0.32	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
o-Xylene	0.34	U	5.0	0.34	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
sec-Butylbenzene	0.31	U	5.0	0.31	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Styrene	0.35	U	5.0	0.35	ug/Kg		08/06/14 07:30	08/06/14 08:57	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-136022/1-A
Matrix: Solid
Analysis Batch: 137777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.31	U	5.0	0.31	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,1,1,2-Tetrachloroethane	0.35	U	5.0	0.35	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,1,2,2-Tetrachloroethane	0.40	U	5.0	0.40	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Tetrachloroethene	0.32	U	5.0	0.32	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Toluene	0.70	U	5.0	0.70	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
trans-1,2-Dichloroethene	0.94	U	5.0	0.94	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
trans-1,3-Dichloropropene	0.35	U	5.0	0.35	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,2,3-Trichlorobenzene	0.44	U	5.0	0.44	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,2,4-Trichlorobenzene	0.43	U	5.0	0.43	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,1,1-Trichloroethane	0.43	U	5.0	0.43	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,1,2-Trichloroethane	0.57	U	5.0	0.57	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Trichloroethene	0.39	U	5.0	0.39	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Trichlorofluoromethane	0.50	U	5.0	0.50	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,2,3-Trichloropropane	0.56	U	5.0	0.56	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,2,4-Trimethylbenzene	0.60	U	5.0	0.60	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
1,3,5-Trimethylbenzene	0.31	U	5.0	0.31	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Vinyl acetate	0.78	U	5.0	0.78	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Vinyl chloride	0.43	U	5.0	0.43	ug/Kg		08/06/14 07:30	08/06/14 08:57	1
Xylenes, Total	0.85	U	10	0.85	ug/Kg		08/06/14 07:30	08/06/14 08:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 150*	*08/06/14 07:30*	*08/06/14 08:57*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 126*	*08/06/14 07:30*	*08/06/14 08:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 127*	*08/06/14 07:30*	*08/06/14 08:57*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*08/06/14 07:30*	*08/06/14 08:57*	*1*

Lab Sample ID: LCS 160-136022/2-A
Matrix: Solid
Analysis Batch: 137777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136022

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	47.7		ug/Kg		95	59 - 129
Acetonitrile	500	500		ug/Kg		100	70 - 128
Benzene	50.0	50.0		ug/Kg		100	80 - 120
Bromobenzene	50.0	46.6		ug/Kg		93	80 - 120
Bromodichloromethane	50.0	50.4		ug/Kg		101	80 - 120
Bromoform	50.0	49.3		ug/Kg		99	84 - 126
Bromomethane	50.0	50.9		ug/Kg		102	74 - 128
2-Butanone (MEK)	50.0	50.9		ug/Kg		102	61 - 134
Carbon disulfide	50.0	51.0		ug/Kg		102	79 - 121
Carbon tetrachloride	50.0	54.9		ug/Kg		110	80 - 125
Chlorobenzene	50.0	48.5		ug/Kg		97	80 - 120
Chlorobromomethane	50.0	51.4		ug/Kg		103	80 - 120
Chloroethane	50.0	54.4		ug/Kg		109	73 - 129
Chloroform	50.0	50.9		ug/Kg		102	80 - 120
Chloromethane	50.0	50.6		ug/Kg		101	70 - 129
2-Chlorotoluene	50.0	47.4		ug/Kg		95	80 - 120
4-Chlorotoluene	50.0	48.1		ug/Kg		96	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-136022/2-A
Matrix: Solid
Analysis Batch: 137777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136022

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	50.0	50.4		ug/Kg		101	80 - 120
cis-1,3-Dichloropropene	50.0	51.7		ug/Kg		103	80 - 125
Cymene	50.0	50.4		ug/Kg		101	82 - 124
Dibromochloromethane	50.0	50.5		ug/Kg		101	80 - 120
Dibromomethane	50.0	50.3		ug/Kg		101	80 - 120
1,2-Dichlorobenzene	50.0	51.1		ug/Kg		102	80 - 120
1,3-Dichlorobenzene	50.0	50.3		ug/Kg		101	80 - 120
1,4-Dichlorobenzene	50.0	50.1		ug/Kg		100	80 - 120
Dichlorodifluoromethane	50.0	52.1		ug/Kg		104	73 - 124
1,1-Dichloroethane	50.0	50.5		ug/Kg		101	80 - 120
1,2-Dichloroethane	50.0	51.1		ug/Kg		102	76 - 125
1,1-Dichloroethene	50.0	52.2		ug/Kg		104	80 - 120
1,2-Dichloropropane	50.0	50.2		ug/Kg		100	80 - 120
1,3-Dichloropropane	50.0	48.6		ug/Kg		97	80 - 120
2,2-Dichloropropane	50.0	57.0		ug/Kg		114	78 - 130
1,1-Dichloropropene	50.0	53.1		ug/Kg		106	80 - 120
Ethylbenzene	50.0	51.5		ug/Kg		103	80 - 120
2-Hexanone	50.0	49.1		ug/Kg		98	71 - 127
Isopropylbenzene	50.0	49.1		ug/Kg		98	80 - 120
Methylene Chloride	50.0	48.4		ug/Kg		97	80 - 120
Methyl iodide	50.0	51.7		ug/Kg		103	77 - 124
4-Methyl-2-pentanone (MIBK)	50.0	50.2		ug/Kg		100	75 - 127
Methyl tert-butyl ether	50.0	51.3		ug/Kg		103	83 - 124
Naphthalene	50.0	53.1		ug/Kg		106	58 - 140
n-Butylbenzene	50.0	51.6		ug/Kg		103	78 - 123
N-Propylbenzene	50.0	46.4		ug/Kg		93	82 - 123
sec-Butylbenzene	50.0	49.7		ug/Kg		99	81 - 121
Styrene	50.0	50.0		ug/Kg		100	80 - 120
tert-Butylbenzene	50.0	53.6		ug/Kg		107	80 - 120
1,1,1,2-Tetrachloroethane	50.0	48.1		ug/Kg		96	80 - 120
1,1,2,2-Tetrachloroethane	50.0	44.0		ug/Kg		88	78 - 121
Tetrachloroethene	50.0	52.8		ug/Kg		106	80 - 120
Toluene	50.0	50.3		ug/Kg		101	80 - 120
trans-1,2-Dichloroethene	50.0	50.5		ug/Kg		101	80 - 120
trans-1,3-Dichloropropene	50.0	51.8		ug/Kg		104	82 - 124
1,2,3-Trichlorobenzene	50.0	54.3		ug/Kg		109	52 - 140
1,2,4-Trichlorobenzene	50.0	54.8		ug/Kg		110	75 - 124
1,1,1-Trichloroethane	50.0	53.0		ug/Kg		106	81 - 124
1,1,2-Trichloroethane	50.0	48.3		ug/Kg		97	80 - 120
Trichloroethene	50.0	51.6		ug/Kg		103	80 - 120
Trichlorofluoromethane	50.0	53.7		ug/Kg		107	77 - 132
1,2,3-Trichloropropane	50.0	48.5		ug/Kg		97	77 - 120
1,2,4-Trimethylbenzene	50.0	49.8		ug/Kg		100	85 - 123
1,3,5-Trimethylbenzene	50.0	45.4		ug/Kg		91	80 - 120
Vinyl acetate	50.0	61.4		ug/Kg		123	67 - 134
Vinyl chloride	50.0	53.2		ug/Kg		106	65 - 123
Xylenes, Total	100	98.7		ug/Kg		99	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-136022/2-A
Matrix: Solid
Analysis Batch: 137777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136022

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 150*
Dibromofluoromethane (Surr)	*97*		*70 - 126*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 127*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 160-136022/3-A
Matrix: Solid
Analysis Batch: 137777

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 136022

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			50.0	48.3		ug/Kg		97	59 - 129	1	20
Acetonitrile			500	526		ug/Kg		105	70 - 128	5	20
Benzene			50.0	50.6		ug/Kg		101	80 - 120	1	20
Bromobenzene			50.0	47.2		ug/Kg		94	80 - 120	1	20
Bromodichloromethane			50.0	51.7		ug/Kg		103	80 - 120	3	20
Bromoform			50.0	52.4		ug/Kg		105	84 - 126	6	20
Bromomethane			50.0	52.8		ug/Kg		106	74 - 128	4	20
2-Butanone (MEK)			50.0	52.1		ug/Kg		104	61 - 134	2	20
Carbon disulfide			50.0	52.7		ug/Kg		105	79 - 121	3	20
Carbon tetrachloride			50.0	55.4		ug/Kg		111	80 - 125	1	20
Chlorobenzene			50.0	49.7		ug/Kg		99	80 - 120	2	20
Chlorobromomethane			50.0	52.0		ug/Kg		104	80 - 120	1	20
Chloroethane			50.0	57.7		ug/Kg		115	73 - 129	6	20
Chloroform			50.0	51.4		ug/Kg		103	80 - 120	1	20
Chloromethane			50.0	51.4		ug/Kg		103	70 - 129	2	20
2-Chlorotoluene			50.0	48.8		ug/Kg		98	80 - 120	3	20
4-Chlorotoluene			50.0	48.5		ug/Kg		97	80 - 120	1	20
cis-1,2-Dichloroethene			50.0	51.8		ug/Kg		104	80 - 120	3	20
cis-1,3-Dichloropropene			50.0	52.5		ug/Kg		105	80 - 125	2	20
Cymene			50.0	51.3		ug/Kg		103	82 - 124	2	20
Dibromochloromethane			50.0	51.6		ug/Kg		103	80 - 120	2	20
Dibromomethane			50.0	51.8		ug/Kg		104	80 - 120	3	20
1,2-Dichlorobenzene			50.0	52.9		ug/Kg		106	80 - 120	3	20
1,3-Dichlorobenzene			50.0	51.6		ug/Kg		103	80 - 120	3	20
1,4-Dichlorobenzene			50.0	51.1		ug/Kg		102	80 - 120	2	20
Dichlorodifluoromethane			50.0	52.3		ug/Kg		105	73 - 124	0	20
1,1-Dichloroethane			50.0	51.3		ug/Kg		103	80 - 120	2	20
1,2-Dichloroethane			50.0	51.5		ug/Kg		103	76 - 125	1	20
1,1-Dichloroethene			50.0	53.2		ug/Kg		106	80 - 120	2	20
1,2-Dichloropropane			50.0	50.8		ug/Kg		102	80 - 120	1	20
1,3-Dichloropropane			50.0	50.2		ug/Kg		100	80 - 120	3	20
2,2-Dichloropropane			50.0	58.2		ug/Kg		116	78 - 130	2	20
1,1-Dichloropropene			50.0	53.2		ug/Kg		106	80 - 120	0	20
Ethylbenzene			50.0	53.4		ug/Kg		107	80 - 120	4	20
2-Hexanone			50.0	52.3		ug/Kg		105	71 - 127	6	20
Isopropylbenzene			50.0	50.8		ug/Kg		102	80 - 120	3	20
Methylene Chloride			50.0	49.7		ug/Kg		99	80 - 120	3	20
Methyl iodide			50.0	52.2		ug/Kg		104	77 - 124	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 160-136022/3-A
Matrix: Solid
Analysis Batch: 137777

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 136022

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)			50.0	52.9		ug/Kg		106	75 - 127	5	20
Methyl tert-butyl ether			50.0	52.2		ug/Kg		104	83 - 124	2	20
Naphthalene			50.0	54.6		ug/Kg		109	58 - 140	3	20
n-Butylbenzene			50.0	53.5		ug/Kg		107	78 - 123	4	20
N-Propylbenzene			50.0	47.3		ug/Kg		95	82 - 123	2	20
sec-Butylbenzene			50.0	50.5		ug/Kg		101	81 - 121	2	20
Styrene			50.0	52.2		ug/Kg		104	80 - 120	4	20
tert-Butylbenzene			50.0	55.4		ug/Kg		111	80 - 120	3	20
1,1,1,2-Tetrachloroethane			50.0	49.8		ug/Kg		100	80 - 120	4	20
1,1,2,2-Tetrachloroethane			50.0	46.5		ug/Kg		93	78 - 121	6	20
Tetrachloroethene			50.0	54.4		ug/Kg		109	80 - 120	3	20
Toluene			50.0	52.4		ug/Kg		105	80 - 120	4	20
trans-1,2-Dichloroethene			50.0	52.6		ug/Kg		105	80 - 120	4	20
trans-1,3-Dichloropropene			50.0	52.0		ug/Kg		104	82 - 124	0	20
1,2,3-Trichlorobenzene			50.0	53.9		ug/Kg		108	52 - 140	1	20
1,2,4-Trichlorobenzene			50.0	54.8		ug/Kg		110	75 - 124	0	20
1,1,1-Trichloroethane			50.0	53.9		ug/Kg		108	81 - 124	2	20
1,1,2-Trichloroethane			50.0	50.1		ug/Kg		100	80 - 120	4	20
Trichloroethene			50.0	52.3		ug/Kg		105	80 - 120	1	20
Trichlorofluoromethane			50.0	53.8		ug/Kg		108	77 - 132	0	20
1,2,3-Trichloropropane			50.0	50.4		ug/Kg		101	77 - 120	4	20
1,2,4-Trimethylbenzene			50.0	50.8		ug/Kg		102	85 - 123	2	20
1,3,5-Trimethylbenzene			50.0	46.9		ug/Kg		94	80 - 120	3	20
Vinyl acetate			50.0	62.3		ug/Kg		125	67 - 134	1	20
Vinyl chloride			50.0	55.2		ug/Kg		110	65 - 123	4	20
Xylenes, Total			100	102		ug/Kg		102	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*63 - 150*
Dibromofluoromethane (Surr)	*100*		*70 - 126*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 127*
Toluene-d8 (Surr)	*103*		*80 - 120*

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

Lab Sample ID: MB 280-237585/1-A
Matrix: Solid
Analysis Batch: 237848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	10	U	320	10	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Acenaphthylene	17	U	320	17	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Acetophenone	20	U	320	20	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Aniline	130	U	320	130	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Anthracene	17	U	320	17	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Azobenzene	22	U	320	22	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Benzo[a]anthracene	20	U	320	20	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Benzo[a]pyrene	20	U	320	20	ug/Kg		08/05/14 22:04	08/07/14 10:35	1

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

Lab Sample ID: MB 280-237585/1-A
Matrix: Solid
Analysis Batch: 237848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	26	U	320	26	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Benzo[g,h,i]perylene	16	U	320	16	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Benzoic acid	320	U	1600	320	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Benzo[k]fluoranthene	39	U	320	39	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Benzyl alcohol	126	J	320	9.8	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Bis(2-chloroethoxy)methane	23	U	320	23	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Bis(2-chloroethyl)ether	16	U	320	16	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Bis(2-ethylhexyl) phthalate	45	U	320	45	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
4-Bromophenyl phenyl ether	19	U	320	19	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Butyl benzyl phthalate	42	U	320	42	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Carbazole	35	U	320	35	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
4-Chloroaniline	80	U	320	80	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
4-Chloro-3-methylphenol	65	U	320	65	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
2-Chloronaphthalene	9.8	U	320	9.8	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
2-Chlorophenol	21	U	320	21	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
4-Chlorophenyl phenyl ether	21	U	320	21	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Chrysene	26	U	320	26	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Dibenz(a,h)anthracene	19	U	320	19	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Dibenzofuran	20	U	320	20	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
3,3'-Dichlorobenzidine	88	U	650	88	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
2,4-Dichlorophenol	9.8	U	320	9.8	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Diethyl phthalate	25	U	650	25	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
2,4-Dimethylphenol	65	U	320	65	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Dimethyl phthalate	23	U	320	23	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Di-n-butyl phthalate	28	U	320	28	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
2,4-Dinitrophenol	330	U	1600	330	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
2,4-Dinitrotoluene	65	U	320	65	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
2,6-Dinitrotoluene	27	U	320	27	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Di-n-octyl phthalate	14	U	320	14	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
1,4-Dioxane	65	U	650	65	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
1,2-Diphenyl-hydrazine	22	U	320	22	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Fluoranthene	35	U	320	35	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Fluorene	18	U	320	18	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Hexachlorobenzene	28	U	320	28	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Hexachlorobutadiene	9.8	U	320	9.8	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Hexachlorocyclopentadiene	49	U	1600	49	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Hexachloroethane	21	U	320	21	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Indeno[1,2,3-cd]pyrene	22	U	320	22	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Isophorone	17	U	320	17	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
2-Methylnaphthalene	19	U	320	19	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
3 & 4 Methylphenol	32	U	320	32	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Naphthalene	30	U	320	30	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
2-Nitroaniline	49	U	1600	49	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
3-Nitroaniline	72	U	1600	72	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
4-Nitroaniline	71	U	1600	71	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Nitrobenzene	22	U	320	22	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
2-Nitrophenol	9.8	U	320	9.8	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
4-Nitrophenol	95	U	1600	95	ug/Kg		08/05/14 22:04	08/07/14 10:35	1

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

Lab Sample ID: MB 280-237585/1-A
Matrix: Solid
Analysis Batch: 237848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	30	U	320	30	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
n-Nitrosodiphenylamine(as diphenylamine)	21	U	320	21	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
2,2'-oxybis[1-chloropropane]	23	U	320	23	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Pentachlorobenzene	64	U	320	64	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Pentachlorophenol	320	U	1600	320	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Phenanthrene	17	U	320	17	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Phenol	18	U	320	18	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Phthalic acid	750	U	2500	750	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
Pyrene	12	U	320	12	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
1,2,4,5-Tetrachlorobenzene	48	U	320	48	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
2,4,5-Trichlorophenol	9.8	U	320	9.8	ug/Kg		08/05/14 22:04	08/07/14 10:35	1
2,4,6-Trichlorophenol	9.8	U	320	9.8	ug/Kg		08/05/14 22:04	08/07/14 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*50 - 120*	*08/05/14 22:04*	*08/07/14 10:35*	*1*
2-Fluorophenol	*79*		*53 - 120*	*08/05/14 22:04*	*08/07/14 10:35*	*1*
Nitrobenzene-d5	*80*		*50 - 120*	*08/05/14 22:04*	*08/07/14 10:35*	*1*
Phenol-d5	*80*		*52 - 120*	*08/05/14 22:04*	*08/07/14 10:35*	*1*
Terphenyl-d14	*95*		*55 - 120*	*08/05/14 22:04*	*08/07/14 10:35*	*1*
2,4,6-Tribromophenol	*72*		*51 - 120*	*08/05/14 22:04*	*08/07/14 10:35*	*1*

Lab Sample ID: LCS 280-237585/2-A
Matrix: Solid
Analysis Batch: 237848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2630	2390		ug/Kg		91	60 - 120
Acenaphthylene	2630	2300		ug/Kg		88	64 - 120
Aniline	2630	1160		ug/Kg		44	10 - 120
Anthracene	2630	2390		ug/Kg		91	63 - 120
Benzo[a]anthracene	2630	2420		ug/Kg		92	65 - 120
Benzo[a]pyrene	2630	2470		ug/Kg		94	59 - 120
Benzo[b]fluoranthene	2630	2500		ug/Kg		95	47 - 129
Benzo[g,h,i]perylene	2630	2460		ug/Kg		93	55 - 126
Benzoic acid	2630	2030		ug/Kg		77	32 - 120
Benzo[k]fluoranthene	2630	2450		ug/Kg		93	48 - 130
Benzyl alcohol	2630	2360		ug/Kg		90	51 - 120
Bis(2-chloroethoxy)methane	2630	2140		ug/Kg		81	56 - 120
Bis(2-chloroethyl)ether	2630	2050		ug/Kg		78	51 - 120
Bis(2-ethylhexyl) phthalate	2630	2600		ug/Kg		99	65 - 120
4-Bromophenyl phenyl ether	2630	2280		ug/Kg		87	64 - 120
Butyl benzyl phthalate	2630	2660		ug/Kg		101	65 - 120
Carbazole	2630	2400		ug/Kg		91	64 - 120
4-Chloroaniline	2630	1430		ug/Kg		54	28 - 120
4-Chloro-3-methylphenol	2630	2480		ug/Kg		94	63 - 120
2-Chloronaphthalene	2630	2290		ug/Kg		87	59 - 120
2-Chlorophenol	2630	2210		ug/Kg		84	57 - 120

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

Lab Sample ID: LCS 280-237585/2-A
Matrix: Solid
Analysis Batch: 237848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	2630	2440		ug/Kg		93	64 - 120
Chrysene	2630	2450		ug/Kg		93	64 - 120
Dibenz(a,h)anthracene	2630	2530		ug/Kg		96	50 - 133
Dibenzofuran	2630	2360		ug/Kg		90	61 - 120
3,3'-Dichlorobenzidine	2630	1650		ug/Kg		63	30 - 120
2,4-Dichlorophenol	2630	2380		ug/Kg		91	60 - 120
Diethyl phthalate	2630	2450		ug/Kg		93	66 - 120
2,4-Dimethylphenol	2630	2230		ug/Kg		85	54 - 120
Dimethyl phthalate	2630	2460		ug/Kg		94	65 - 120
Di-n-butyl phthalate	2630	2530		ug/Kg		96	67 - 120
2,4-Dinitrophenol	5260	4110		ug/Kg		78	46 - 120
2,4-Dinitrotoluene	2630	2570		ug/Kg		98	68 - 120
2,6-Dinitrotoluene	2630	2520		ug/Kg		96	64 - 120
Di-n-octyl phthalate	2630	2550		ug/Kg		97	66 - 120
1,2-Diphenyl-hydrazine	2660	2250		ug/Kg		85	61 - 120
Fluoranthene	2630	2440		ug/Kg		93	66 - 120
Fluorene	2630	2440		ug/Kg		93	64 - 120
Hexachlorobenzene	2630	2230		ug/Kg		85	62 - 120
Hexachlorobutadiene	2630	2170		ug/Kg		82	53 - 120
Hexachlorocyclopentadiene	2630	1460	J	ug/Kg		56	47 - 120
Hexachloroethane	2630	1980		ug/Kg		75	51 - 120
Indeno[1,2,3-cd]pyrene	2630	2380		ug/Kg		91	63 - 120
Isophorone	2630	2130		ug/Kg		81	56 - 120
2-Methylnaphthalene	2630	2330		ug/Kg		88	57 - 120
3 & 4 Methylphenol	2630	2240		ug/Kg		85	53 - 120
Naphthalene	2630	2190		ug/Kg		83	57 - 120
2-Nitroaniline	2630	2360		ug/Kg		90	63 - 120
3-Nitroaniline	2630	1810		ug/Kg		69	47 - 120
4-Nitroaniline	2630	2220		ug/Kg		85	64 - 120
Nitrobenzene	2630	2170		ug/Kg		82	54 - 120
2-Nitrophenol	2630	2390		ug/Kg		91	56 - 120
4-Nitrophenol	5260	4400		ug/Kg		84	63 - 121
N-Nitrosodi-n-propylamine	2630	2260		ug/Kg		86	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	2630	2320		ug/Kg		88	61 - 120
2,2'-oxybis[1-chloropropane]	2630	1980		ug/Kg		75	49 - 120
Pentachlorophenol	5260	3540		ug/Kg		67	56 - 120
Phenanthrene	2630	2420		ug/Kg		92	64 - 120
Phenol	2630	2180		ug/Kg		83	56 - 120
Pyrene	2630	2510		ug/Kg		95	64 - 120
2,4,5-Trichlorophenol	2630	2370		ug/Kg		90	64 - 120
2,4,6-Trichlorophenol	2630	2410		ug/Kg		92	61 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*86*		*50 - 120*
2-Fluorophenol	*80*		*53 - 120*
Nitrobenzene-d5	*81*		*50 - 120*
Phenol-d5	*81*		*52 - 120*

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

Lab Sample ID: LCS 280-237585/2-A
Matrix: Solid
Analysis Batch: 237848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237585

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*94*		*55 - 120*
2,4,6-Tribromophenol	*81*		*51 - 120*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 320-49235/1-A
Matrix: Solid
Analysis Batch: 49526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49235

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.20	U	20	0.20	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-2	0.22	U	20	0.22	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-3	0.24	U	20	0.24	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-4	6.4	U	20	6.4	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-5	3.3	U	20	3.3	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-6	3.3	U	20	3.3	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-7	3.1	U	20	3.1	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-8	3.2	U	20	3.2	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-9	3.5	U	20	3.5	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-10	4.9	U	20	4.9	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-11	3.4	U	20	3.4	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-12/13	3.4	U	40	3.4	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-14	2.9	U	20	2.9	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-15	4.2	U	20	4.2	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-16	0.79	U	20	0.79	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-17	0.56	U	20	0.56	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-18/30	0.47	U	40	0.47	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-19	0.55	U	20	0.55	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-20/28	0.36	U	40	0.36	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-21/33	0.33	U	40	0.33	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-22	0.38	U	20	0.38	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-23	0.32	U	20	0.32	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-24	0.41	U	20	0.41	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-25	0.33	U	20	0.33	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-26/29	0.34	U	40	0.34	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-27	0.41	U	20	0.41	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-31	0.33	U	20	0.33	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-32	0.32	U	20	0.32	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-34	0.34	U	20	0.34	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-35	0.39	U	20	0.39	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-36	0.34	U	20	0.34	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-37	0.52	U	20	0.52	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-38	0.37	U	20	0.37	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-39	0.34	U	20	0.34	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-40/71	0.25	U	40	0.25	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-41	0.33	U	20	0.33	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-42	0.28	U	20	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-43	0.29	U	20	0.29	pg/g		08/06/14 17:27	08/11/14 18:02	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-49235/1-A
Matrix: Solid
Analysis Batch: 49526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49235

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-44/47/65	0.733	J q	60	0.24	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-45	0.29	U	20	0.29	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-46	0.30	U	20	0.30	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-48	0.26	U	20	0.26	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-49/69	0.21	U	40	0.21	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-50/53	0.24	U	40	0.24	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-51	0.24	U	20	0.24	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-52	0.882	J q	20	0.27	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-54	0.20	U	20	0.20	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-55	0.34	U	20	0.34	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-56	0.37	U	20	0.37	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-57	0.34	U	20	0.34	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-58	0.34	U	20	0.34	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-59/62/75	0.19	U	60	0.19	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-60	0.36	U	20	0.36	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-61/70/74/76	0.944	J	80	0.33	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-63	0.32	U	20	0.32	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-64	0.18	U	20	0.18	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-66	0.38	U	20	0.38	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-67	0.32	U	20	0.32	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-68	0.30	U	20	0.30	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-72	0.33	U	20	0.33	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-73	0.20	U	20	0.20	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-77	0.49	U	2.0	0.49	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-78	0.38	U	20	0.38	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-79	0.33	U	20	0.33	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-80	0.32	U	20	0.32	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-81	0.46	U	2.0	0.46	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-82	0.41	U	20	0.41	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-83	0.45	U	20	0.45	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-84	0.37	U	20	0.37	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-85/116/117	0.28	U	60	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-86/87/97/108/119/125	1.17	J	120	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-88/91	0.31	U	40	0.31	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-89	0.35	U	20	0.35	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-90/101/113	1.71	J	60	0.29	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-92	0.34	U	20	0.34	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-93/100	0.32	U	40	0.32	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-107/124	0.26	U	40	0.26	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-94	0.34	U	20	0.34	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-95	1.29	J	20	0.31	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-96	0.18	U	20	0.18	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-98/102	0.30	U	40	0.30	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-99	0.532	J q	20	0.33	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-103	0.29	U	20	0.29	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-104	0.19	U	20	0.19	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-105	0.312	J q	2.0	0.30	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-106	0.28	U	20	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-49235/1-A
Matrix: Solid
Analysis Batch: 49526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49235

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-110/115	1.57	J	40	0.25	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-109	0.24	U	20	0.24	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-111	0.23	U	20	0.23	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-112	0.22	U	20	0.22	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-114	0.28	U	2.0	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-118	0.707	J q	2.0	0.27	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-120	0.25	U	20	0.25	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-121	0.23	U	20	0.23	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-122	0.29	U	20	0.29	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-123	0.28	U	2.0	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-126	0.40	U	2.0	0.40	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-127	0.28	U	20	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-128/166	0.27	U	40	0.27	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-129/138/163	0.781	J	60	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-130	0.36	U	20	0.36	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-131	0.34	U	20	0.34	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-132	0.32	U	20	0.32	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-133	0.32	U	20	0.32	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-134/143	0.32	U	40	0.32	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-135/151	0.29	U	40	0.29	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-136	0.21	U	20	0.21	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-137	0.28	U	20	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-139/140	0.27	U	40	0.27	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-141	0.30	U	20	0.30	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-142	0.31	U	20	0.31	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-144	0.28	U	20	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-145	0.20	U	20	0.20	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-146	0.30	U	20	0.30	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-147/149	0.552	J q	40	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-148	0.28	U	20	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-150	0.19	U	20	0.19	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-152	0.19	U	20	0.19	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-153/168	0.384	J	40	0.24	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-154	0.25	U	20	0.25	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-155	0.21	U	20	0.21	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-156/157	0.29	U	4.0	0.29	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-158	0.21	U	20	0.21	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-159	0.24	U	20	0.24	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-160	0.25	U	20	0.25	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-161	0.22	U	20	0.22	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-162	0.24	U	20	0.24	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-164	0.24	U	20	0.24	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-165	0.25	U	20	0.25	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-167	0.21	U	2.0	0.21	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-169	0.34	U	2.0	0.34	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-170	0.27	U	20	0.27	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-171/173	0.25	U	40	0.25	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-172	0.26	U	20	0.26	pg/g		08/06/14 17:27	08/11/14 18:02	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-49235/1-A
Matrix: Solid
Analysis Batch: 49526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49235

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-174	0.26	U	20	0.26	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-175	0.31	U	20	0.31	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-176	0.21	U	20	0.21	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-177	0.26	U	20	0.26	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-178	0.33	U	20	0.33	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-179	0.23	U	20	0.23	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-180/193	0.21	U	40	0.21	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-181	0.21	U	20	0.21	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-182	0.29	U	20	0.29	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-183	0.19	U	20	0.19	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-184	0.23	U	20	0.23	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-185	0.23	U	20	0.23	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-186	0.22	U	20	0.22	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-187	0.30	U	20	0.30	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-188	0.22	U	20	0.22	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-189	0.41	U	2.0	0.41	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-190	0.19	U	20	0.19	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-191	0.19	U	20	0.19	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-192	0.19	U	20	0.19	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-194	0.28	U	20	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-195	0.26	U	20	0.26	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-196	0.18	U	20	0.18	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-197	0.12	U	20	0.12	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-198/199	0.19	U	40	0.19	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-200	0.12	U	20	0.12	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-201	0.12	U	20	0.12	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-202	0.14	U	20	0.14	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-203	0.17	U	20	0.17	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-204	0.13	U	20	0.13	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-205	0.21	U	20	0.21	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-206	0.29	U	20	0.29	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-207	0.20	U	20	0.20	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-208	0.23	U	20	0.23	pg/g		08/06/14 17:27	08/11/14 18:02	1
PCB-209	0.525	J q	20	0.20	pg/g		08/06/14 17:27	08/11/14 18:02	1
Total Monochlorobiphenyls	0.24	U	200	0.24	pg/g		08/06/14 17:27	08/11/14 18:02	1
Total Dichlorobiphenyls	6.4	U	200	6.4	pg/g		08/06/14 17:27	08/11/14 18:02	1
Total Trichlorobiphenyls	0.79	U	200	0.79	pg/g		08/06/14 17:27	08/11/14 18:02	1
Total Tetrachlorobiphenyls	2.56	J q	200	0.30	pg/g		08/06/14 17:27	08/11/14 18:02	1
Total Pentachlorobiphenyls	7.29	J q	200	0.29	pg/g		08/06/14 17:27	08/11/14 18:02	1
Total Hexachlorobiphenyls	1.72	J q	200	0.27	pg/g		08/06/14 17:27	08/11/14 18:02	1
Total Heptachlorobiphenyls	0.41	U	200	0.41	pg/g		08/06/14 17:27	08/11/14 18:02	1
Total Octachlorobiphenyls	0.28	U	200	0.28	pg/g		08/06/14 17:27	08/11/14 18:02	1
Total Nonachlorobiphenyls	0.29	U	200	0.29	pg/g		08/06/14 17:27	08/11/14 18:02	1
Polychlorinated biphenyls, Total	12.1	J q	200	0.95	pg/g		08/06/14 17:27	08/11/14 18:02	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*44*		*5 - 145*	*08/06/14 17:27*	*08/11/14 18:02*	*1*
PCB-3L	*53*		*5 - 145*	*08/06/14 17:27*	*08/11/14 18:02*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-49235/1-A
Matrix: Solid
Analysis Batch: 49526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49235

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-4L	61		5 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-15L	59		5 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-19L	70		5 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-37L	59		5 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-54L	60		5 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-77L	72		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-81L	69		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-104L	58		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-105L	79		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-114L	76		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-118L	77		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-123L	74		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-126L	75		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-155L	63		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-156L/157L	90		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-167L	88		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-169L	89		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-188L	74		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-189L	81		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-202L	84		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-205L	91		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-206L	90		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-208L	95		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-209L	85		10 - 145	08/06/14 17:27	08/11/14 18:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	59		5 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-111L	69		10 - 145	08/06/14 17:27	08/11/14 18:02	1
PCB-178L	86		10 - 145	08/06/14 17:27	08/11/14 18:02	1

Lab Sample ID: LCS 320-49235/2-A
Matrix: Solid
Analysis Batch: 49526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	213		pg/g		106	60 - 135
PCB-3	200	208		pg/g		104	60 - 135
PCB-4	200	188		pg/g		94	60 - 135
PCB-15	200	210		pg/g		105	60 - 135
PCB-19	200	194		pg/g		97	60 - 135
PCB-37	200	216		pg/g		108	60 - 135
PCB-54	200	192		pg/g		96	60 - 135
PCB-77	200	203		pg/g		102	60 - 135
PCB-81	200	201		pg/g		101	60 - 135
PCB-104	200	210		pg/g		105	60 - 135
PCB-105	200	212		pg/g		106	60 - 135
PCB-114	200	202		pg/g		101	60 - 135
PCB-118	200	213		pg/g		106	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-49235/2-A
Matrix: Solid
Analysis Batch: 49526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49235

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-123			200	202		pg/g		101	60 - 135		
PCB-126			200	196		pg/g		98	60 - 135		
PCB-155			200	207		pg/g		104	60 - 135		
PCB-156/157			400	399		pg/g		100	60 - 135		
PCB-167			200	194		pg/g		97	60 - 135		
PCB-169			200	177		pg/g		89	60 - 135		
PCB-188			200	194		pg/g		97	60 - 135		
PCB-189			200	208		pg/g		104	60 - 135		
PCB-202			200	193		pg/g		97	60 - 135		
PCB-205			200	188		pg/g		94	60 - 135		
PCB-206			200	197		pg/g		99	60 - 135		
PCB-208			200	194		pg/g		97	60 - 135		
PCB-209			200	188		pg/g		94	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-1L	*49*		*15 - 145*
PCB-3L	*61*		*15 - 145*
PCB-4L	*68*		*15 - 145*
PCB-15L	*68*		*15 - 145*
PCB-19L	*77*		*15 - 145*
PCB-37L	*64*		*15 - 145*
PCB-54L	*71*		*15 - 145*
PCB-77L	*75*		*40 - 145*
PCB-81L	*72*		*40 - 145*
PCB-104L	*61*		*40 - 145*
PCB-105L	*78*		*40 - 145*
PCB-114L	*79*		*40 - 145*
PCB-118L	*78*		*40 - 145*
PCB-123L	*77*		*40 - 145*
PCB-126L	*78*		*40 - 145*
PCB-155L	*67*		*40 - 145*
PCB-156L/157L	*90*		*40 - 145*
PCB-167L	*87*		*40 - 145*
PCB-169L	*93*		*40 - 145*
PCB-188L	*77*		*40 - 145*
PCB-189L	*80*		*40 - 145*
PCB-202L	*84*		*40 - 145*
PCB-205L	*85*		*40 - 145*
PCB-206L	*85*		*40 - 145*
PCB-208L	*90*		*40 - 145*
PCB-209L	*82*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*66*		*5 - 145*
PCB-111L	*72*		*10 - 145*
PCB-178L	*82*		*10 - 145*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-49225/1-A
Matrix: Solid
Analysis Batch: 50594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49225

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.038	U	1.0	0.038	pg/g		08/06/14 16:23	08/21/14 21:13	1
2,3,7,8-TCDF	0.057	U	1.0	0.057	pg/g		08/06/14 16:23	08/21/14 21:13	1
1,2,3,7,8-PeCDD	0.24	U	5.0	0.24	pg/g		08/06/14 16:23	08/21/14 21:13	1
1,2,3,7,8-PeCDF	0.14	U	5.0	0.14	pg/g		08/06/14 16:23	08/21/14 21:13	1
2,3,4,7,8-PeCDF	0.14	U	5.0	0.14	pg/g		08/06/14 16:23	08/21/14 21:13	1
1,2,3,4,7,8-HxCDD	0.031	U	5.0	0.031	pg/g		08/06/14 16:23	08/21/14 21:13	1
1,2,3,6,7,8-HxCDD	0.030	U	5.0	0.030	pg/g		08/06/14 16:23	08/21/14 21:13	1
1,2,3,7,8,9-HxCDD	0.0652	J	5.0	0.027	pg/g		08/06/14 16:23	08/21/14 21:13	1
1,2,3,4,7,8-HxCDF	0.0592	J	5.0	0.023	pg/g		08/06/14 16:23	08/21/14 21:13	1
1,2,3,6,7,8-HxCDF	0.0572	J q	5.0	0.021	pg/g		08/06/14 16:23	08/21/14 21:13	1
1,2,3,7,8,9-HxCDF	0.0571	J q	5.0	0.024	pg/g		08/06/14 16:23	08/21/14 21:13	1
2,3,4,6,7,8-HxCDF	0.0531	J	5.0	0.022	pg/g		08/06/14 16:23	08/21/14 21:13	1
1,2,3,4,6,7,8-HpCDD	0.114	J q	5.0	0.018	pg/g		08/06/14 16:23	08/21/14 21:13	1
1,2,3,4,6,7,8-HpCDF	0.074	U	5.0	0.074	pg/g		08/06/14 16:23	08/21/14 21:13	1
1,2,3,4,7,8,9-HpCDF	0.0741	J	5.0	0.030	pg/g		08/06/14 16:23	08/21/14 21:13	1
OCDD	0.413	J	10	0.029	pg/g		08/06/14 16:23	08/21/14 21:13	1
OCDF	0.246	J q	10	0.038	pg/g		08/06/14 16:23	08/21/14 21:13	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*103*		*40 - 135*	*08/06/14 16:23*	*08/21/14 21:13*	*1*
13C-2,3,7,8-TCDF	*100*		*40 - 135*	*08/06/14 16:23*	*08/21/14 21:13*	*1*
13C-1,2,3,7,8-PeCDD	*98*		*40 - 135*	*08/06/14 16:23*	*08/21/14 21:13*	*1*
13C-1,2,3,7,8-PeCDF	*112*		*40 - 135*	*08/06/14 16:23*	*08/21/14 21:13*	*1*
13C-1,2,3,6,7,8-HxCDD	*104*		*40 - 135*	*08/06/14 16:23*	*08/21/14 21:13*	*1*
13C-1,2,3,4,7,8-HxCDF	*86*		*40 - 135*	*08/06/14 16:23*	*08/21/14 21:13*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*102*		*40 - 135*	*08/06/14 16:23*	*08/21/14 21:13*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*100*		*40 - 135*	*08/06/14 16:23*	*08/21/14 21:13*	*1*
13C-OCDD	*112*		*40 - 135*	*08/06/14 16:23*	*08/21/14 21:13*	*1*

Lab Sample ID: LCS 320-49225/2-A
Matrix: Solid
Analysis Batch: 50594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	20.9		pg/g		104	77 - 130
2,3,7,8-TCDF	20.0	23.2		pg/g		116	79 - 137
1,2,3,7,8-PeCDD	100	108		pg/g		108	79 - 134
1,2,3,7,8-PeCDF	100	110		pg/g		110	81 - 134
2,3,4,7,8-PeCDF	100	120		pg/g		120	76 - 132
1,2,3,4,7,8-HxCDD	100	106		pg/g		106	65 - 144
1,2,3,6,7,8-HxCDD	100	113		pg/g		113	73 - 147
1,2,3,7,8,9-HxCDD	100	113		pg/g		113	80 - 143
1,2,3,4,7,8-HxCDF	100	114		pg/g		114	72 - 140
1,2,3,6,7,8-HxCDF	100	114		pg/g		114	63 - 152
1,2,3,7,8,9-HxCDF	100	118		pg/g		118	72 - 152
2,3,4,6,7,8-HxCDF	100	111		pg/g		111	72 - 151
1,2,3,4,6,7,8-HpCDD	100	107		pg/g		107	86 - 134
1,2,3,4,6,7,8-HpCDF	100	112		pg/g		112	81 - 137

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-49225/2-A
Matrix: Solid
Analysis Batch: 50594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3,4,7,8,9-HpCDF	100	122		pg/g		122	79 - 139
OCDD	200	223		pg/g		111	80 - 137
OCDF	200	234		pg/g		117	75 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*101*		*40 - 135*
13C-2,3,7,8-TCDF	*98*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*109*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*105*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*103*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*85*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*105*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*99*		*40 - 135*
13C-OCDD	*116*		*40 - 135*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-135554/1-A
Matrix: Solid
Analysis Batch: 140254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135554

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.2	U	20	4.2	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Antimony	0.31	U	0.99	0.31	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Barium	0.11	U	4.9	0.11	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Beryllium	0.074	U	0.49	0.074	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Cadmium	0.034	U	0.49	0.034	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Calcium	10.7	J	250	6.7	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Chromium	0.14	U	0.99	0.14	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Cobalt	0.14	U	4.9	0.14	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Iron	2.0	U	9.9	2.0	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Lead	0.13	U	0.99	0.13	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Magnesium	4.37	J	99	3.1	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Nickel	0.11	U	4.0	0.11	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Potassium	72	U	490	72	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Selenium	0.20	U	1.5	0.20	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Silver	0.069	U	0.99	0.069	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Sodium	7.5	U	99	7.5	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Titanium	0.13	U	2.0	0.13	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Vanadium	0.50	U	4.9	0.50	mg/Kg		08/04/14 11:10	08/26/14 14:28	1
Zinc	1.34	J	4.9	0.56	mg/Kg		08/04/14 11:10	08/26/14 14:28	1

Lab Sample ID: LCSSRM 160-135554/3-A
Matrix: Solid
Analysis Batch: 140254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135554

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9390	5940		mg/Kg		63.3	43.5 - 156.5

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

Lab Sample ID: LCSSRM 160-135554/3-A
Matrix: Solid
Analysis Batch: 140254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135554

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	129	59.1		mg/Kg		45.8	22.4 - 249.6
Barium	210	160		mg/Kg		76.1	73.3 - 126.7
Beryllium	55.8	43.0		mg/Kg		77.1	73.1 - 127.1
Cadmium	142	108		mg/Kg		76.0	73.2 - 128.2
Calcium	7530	6090		mg/Kg		80.9	74.6 - 125.4
Chromium	86.8	68.0		mg/Kg		78.4	69.1 - 131.3
Cobalt	199	163		mg/Kg		82.1	74.4 - 125.6
Iron	12800	9190		mg/Kg		71.8	31.6 - 168.0
Lead	97.9	80.5		mg/Kg		82.2	70.8 - 128.7
Magnesium	2850	1980		mg/Kg		69.6	65.3 - 134.7
Nickel	236	190		mg/Kg		80.4	74.2 - 128.0
Potassium	2570	1810		mg/Kg		70.5	61.1 - 138.9
Selenium	127	98.9		mg/Kg		77.9	66.6 - 133.9
Silver	66.2	50.8		mg/Kg		76.8	67.1 - 132.9
Sodium	1040	824		mg/Kg		79.2	60.4 - 139.4
Titanium	215	167		mg/Kg		77.6	0.0 - 215.8
Vanadium	156	114		mg/Kg		73.4	71.8 - 129.5
Zinc	130	99.5		mg/Kg		76.5	66.9 - 133.1

Lab Sample ID: 160-7727-1 MS
Matrix: Solid
Analysis Batch: 140254

Client Sample ID: AL-1
Prep Type: Total/NA
Prep Batch: 135554

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	12000		1090	11800	4	mg/Kg	☼	-26	75 - 125
Antimony	3.9	U	54.4	22.6	F1	mg/Kg	☼	42	75 - 125
Barium	250		109	294	F1	mg/Kg	☼	39	75 - 125
Beryllium	1.1	J	109	104		mg/Kg	☼	94	75 - 125
Cadmium	0.43	U	109	104		mg/Kg	☼	95	75 - 125
Calcium	22000	B	1090	14300	4	mg/Kg	☼	-741	75 - 125
Chromium	41		109	132		mg/Kg	☼	84	75 - 125
Cobalt	12	J	109	117		mg/Kg	☼	97	75 - 125
Iron	22000		1090	14400	4	mg/Kg	☼	-716	75 - 125
Lead	24		109	128		mg/Kg	☼	96	75 - 125
Magnesium	12000	B	1090	8380	4	mg/Kg	☼	-293	75 - 125

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

Lab Sample ID: 160-7727-1 MS — **Client Sample ID: AL-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 140254 — **Prep Batch: 135554**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	26	J	109	128		mg/Kg	☼	93	75 - 125
Potassium	2500	J	1090	3290	J F1	mg/Kg	☼	71	75 - 125
Selenium	2.6	U	54.4	49.5		mg/Kg	☼	91	75 - 125
Silver	0.89	U	21.7	18.5		mg/Kg	☼	85	75 - 125
Sodium	810	J	1090	2000		mg/Kg	☼	109	75 - 125
Titanium	1700		109	1160	4	mg/Kg	☼	-489	75 - 125
Vanadium	82		109	145	F1	mg/Kg	☼	58	75 - 125
Zinc	100	B	109	169	F1	mg/Kg	☼	59	75 - 125

Lab Sample ID: 160-7727-1 MSD — **Client Sample ID: AL-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 140254 — **Prep Batch: 135554**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	12000		1180	16800	4 F2	mg/Kg	☼	405	75 - 125	35	30
Antimony	3.9	U	59.1	21.7	F1	mg/Kg	☼	37	75 - 125	4	30
Barium	250		118	398		mg/Kg	☼	124	75 - 125	30	30
Beryllium	1.1	J	118	115		mg/Kg	☼	96	75 - 125	10	30
Cadmium	0.43	U	118	113		mg/Kg	☼	96	75 - 125	9	30
Calcium	22000	B	1180	19400	4	mg/Kg	☼	-254	75 - 125	30	30
Chromium	41		118	150		mg/Kg	☼	93	75 - 125	13	30
Cobalt	12	J	118	130		mg/Kg	☼	100	75 - 125	10	30
Iron	22000		1180	19900	4 F2	mg/Kg	☼	-194	75 - 125	32	30
Lead	24		118	143		mg/Kg	☼	101	75 - 125	11	30
Magnesium	12000	B	1180	11700	4 F2	mg/Kg	☼	12	75 - 125	33	30
Nickel	26	J	118	144		mg/Kg	☼	100	75 - 125	12	30
Potassium	2500	J	1180	4290	J F1	mg/Kg	☼	150	75 - 125	27	30
Selenium	2.6	U	59.1	53.0		mg/Kg	☼	90	75 - 125	7	30
Silver	0.89	U	23.6	22.3		mg/Kg	☼	94	75 - 125	19	30
Sodium	810	J	1180	2550	F1	mg/Kg	☼	147	75 - 125	24	30
Titanium	1700		118	1630	4 F2	mg/Kg	☼	-52	75 - 125	34	30
Vanadium	82		118	173		mg/Kg	☼	77	75 - 125	17	30
Zinc	100	B	118	211		mg/Kg	☼	90	75 - 125	22	30

Lab Sample ID: MB 160-140369/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 140908 — **Prep Batch: 140369**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.21	U	2.1	0.21	mg/Kg		08/27/14 09:22	08/28/14 17:32	1
Manganese	0.069	U	0.86	0.069	mg/Kg		08/27/14 09:22	08/28/14 17:32	1

Lab Sample ID: LCSSRM 160-140369/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 140908 — **Prep Batch: 140369**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	268	245		mg/Kg		91.4	76.1 - 123.9

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

Lab Sample ID: LCSSRM 160-140369/2-A
Matrix: Solid
Analysis Batch: 140908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140369

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Manganese			425	356		mg/Kg		83.9	76.2 - 123.5		

Lab Sample ID: 160-7727-1 MS
Matrix: Solid
Analysis Batch: 140908

Client Sample ID: AL-1
Prep Type: Total/NA
Prep Batch: 140369

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Copper	54		117	132	F1	mg/Kg	☼	67	75 - 125		
Manganese	600		117	763	4	mg/Kg	☼	135	75 - 125		

Lab Sample ID: 160-7727-1 MSD
Matrix: Solid
Analysis Batch: 140908

Client Sample ID: AL-1
Prep Type: Total/NA
Prep Batch: 140369

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	54		108	139		mg/Kg	☼	79	75 - 125	5	30
Manganese	600		108	539	4 F2	mg/Kg	☼	-60	75 - 125	34	30

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-135557/1-A
Matrix: Solid
Analysis Batch: 141068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.26	U	0.99	0.26	mg/Kg		08/04/14 11:13	08/30/14 02:33	2
Niobium	0.38	U	2.5	0.38	mg/Kg		08/04/14 11:13	08/30/14 02:33	2
Thallium	0.15	U	0.49	0.15	mg/Kg		08/04/14 11:13	08/30/14 02:33	2
Uranium	0.020	U	0.099	0.020	mg/Kg		08/04/14 11:13	08/30/14 02:33	2

Lab Sample ID: LCS 160-135557/2-A
Matrix: Solid
Analysis Batch: 141068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135557

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Niobium			47.7	48.9	E	mg/Kg		102	80 - 120		
Uranium			95.4	97.5		mg/Kg		102	80 - 120		

Lab Sample ID: LCSSRM 160-135557/3-A
Matrix: Solid
Analysis Batch: 141068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135557

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			88.4	76.6		mg/Kg		86.7	69.0 - 131.2		
Thallium			140	129		mg/Kg		92.1	68.3 - 132.1		

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

Lab Sample ID: 160-7727-1 MS
Matrix: Solid
Analysis Batch: 141068

Client Sample ID: AL-1
Prep Type: Total/NA
Prep Batch: 135557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.9	J	109	109		mg/Kg	☼	96	75 - 125
Niobium	18		54.4	22.0	F1	mg/Kg	☼	7	75 - 125
Thallium	0.97	U	21.7	22.6		mg/Kg	☼	104	75 - 125
Uranium	2.1		109	114		mg/Kg	☼	103	75 - 125

Lab Sample ID: 160-7727-1 MSD
Matrix: Solid
Analysis Batch: 141068

Client Sample ID: AL-1
Prep Type: Total/NA
Prep Batch: 135557

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.9	J	118	124		mg/Kg	☼	100	75 - 125	12	30
Niobium	18		59.1	26.5	F1	mg/Kg	☼	14	75 - 125	19	30
Thallium	0.97	U	23.6	25.0		mg/Kg	☼	106	75 - 125	10	30
Uranium	2.1		118	127		mg/Kg	☼	105	75 - 125	10	30

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 160-137790/1-A
Matrix: Solid
Analysis Batch: 137836

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137790

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0099	U	0.030	0.0099	mg/Kg		08/13/14 12:07	08/13/14 18:14	1

Lab Sample ID: LCSSRM 160-137790/2-A
Matrix: Solid
Analysis Batch: 137836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137790

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	9.03	10.1		mg/Kg		111.5	51.3 - 148.4

Lab Sample ID: 160-7727-1 MS
Matrix: Solid
Analysis Batch: 137836

Client Sample ID: AL-1
Prep Type: Total/NA
Prep Batch: 137790

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.55		0.970	1.44		mg/Kg	☼	92	80 - 120

Lab Sample ID: 160-7727-1 MSD
Matrix: Solid
Analysis Batch: 137836

Client Sample ID: AL-1
Prep Type: Total/NA
Prep Batch: 137790

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.55		0.955	1.48		mg/Kg	☼	98	80 - 120	3	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-138099/1-A
Matrix: Solid
Analysis Batch: 138782

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.040	U	0.20	0.040	mg/Kg			08/18/14 13:07	1
Chloride	0.20	U	2.0	0.20	mg/Kg			08/18/14 13:07	1
Sulfate	0.50	U	5.0	0.50	mg/Kg			08/18/14 13:07	1

Lab Sample ID: LCS 160-138099/2-A
Matrix: Solid
Analysis Batch: 138782

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.02	3.98		mg/Kg		99	90 - 110
Chloride	20.1	19.5		mg/Kg		97	90 - 110
Sulfate	80.4	75.3		mg/Kg		94	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-7727-1 MS
Matrix: Solid
Analysis Batch: 138782

Client Sample ID: AL-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N - DL	8.9		104	113		mg/Kg	☼	99	90 - 110
Chloride - DL	280		522	821		mg/Kg	☼	103	90 - 110
Sulfate - DL	230		1040	1210		mg/Kg	☼	93	90 - 110

Lab Sample ID: 160-7727-1 DU
Matrix: Solid
Analysis Batch: 138782

Client Sample ID: AL-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N - DL	8.9		10.4		mg/Kg	☼	16	20
Chloride - DL	280		322		mg/Kg	☼	14	20
Sulfate - DL	230		267		mg/Kg	☼	13	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-136728/1-A
Matrix: Solid
Analysis Batch: 137454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136728

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.4440	U	2.83	2.83	10.0	5.35	pCi/g	08/08/14 10:06	08/12/14 18:08	1
Gross Beta	4.046		2.22	2.26	10.0	3.40	pCi/g	08/08/14 10:06	08/12/14 18:08	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Lab Sample ID: LCS 160-136728/2-A
Matrix: Solid
Analysis Batch: 137454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136728

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Gross Alpha			27.1	19.38		5.34	10.0	3.77	pCi/g	72	44 - 140		
Gross Beta			26.8	26.44		4.18	10.0	3.08	pCi/g	99	38 - 130		

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-136605/1-A
Matrix: Solid
Analysis Batch: 140727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136605

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium 228	0.0000	U	0.0571	0.0571		0.455	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Bismuth-212	0.0000	U	0.314	0.314		1.00	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Bismuth-214	0.05261	U	0.0798	0.0800		0.174	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Bismuth-210M	0.02028	U	0.0441	0.0441		0.0726	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Cesium-134	-0.01782	U	0.0500	0.0500		0.0887	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Cesium-137	0.0003717	U	0.0360	0.0360		0.0733	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Cobalt-57	0.008060	U	0.0175	0.0176		0.0307	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Cobalt-60	-0.005049	U	0.0578	0.0578		0.115	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Lead-212	0.0007697	U	0.0576	0.0576		0.117	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Lead-214	-0.01165	U	0.110	0.110		0.162	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Potassium-40	-0.3824	U	15.3	15.3		1.29	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Protactinium-231	-0.1923	U	0.941	0.941		1.72	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Protactinium-234	0.07498	U	0.130	0.130		0.198	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Radium-224	-0.007755	U	0.638	0.638		1.18	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Thallium-208	-0.01439	U	0.127	0.127		0.0912	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Thorium-227	-0.03443	U	0.0979	0.0980		0.438	pCi/g	08/07/14 10:52	08/28/14 02:42	1
Thorium-234	-0.3045	U	1.61	1.61		1.50	pCi/g	08/07/14 10:52	08/28/14 02:42	1

Lab Sample ID: LCS 160-136605/2-A
Matrix: Solid
Analysis Batch: 140725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136605

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Cesium-137			30.9	29.76		3.16		0.225	pCi/g	96	87 - 120		
Cobalt-60			21.7	20.19		2.07		0.149	pCi/g	93	87 - 115		
Americium-241			97.4	95.37		10.0		1.02	pCi/g	98	87 - 116		

Lab Sample ID: 160-7727-1 DU
Matrix: Solid
Analysis Batch: 140726

Client Sample ID: AL-1
Prep Type: Total/NA
Prep Batch: 136605

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Actinium 228	1.57			1.911		0.400		0.265	pCi/g			0.47	1
Bismuth-212	1.60			2.779		0.890		0.570	pCi/g			0.70	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: 160-7727-1 DU
Matrix: Solid
Analysis Batch: 140726

Client Sample ID: AL-1
Prep Type: Total/NA
Prep Batch: 136605

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Bismuth-214	1.54		1.646		0.267		0.0993	pCi/g	0.20	1
Bismuth-210M	0.0719	U	-0.02821	U	0.0815		0.139	pCi/g	0.68	1
Cesium-134	0.0353	U	0.02261	U	0.0339		0.124	pCi/g	0.19	1
Cesium-137	0.000	U	-0.01251	U	0.0615		0.109	pCi/g	0.13	1
Cobalt-57	-0.00585	U	-0.02446	U	0.0448		0.0746	pCi/g	0.21	1
Cobalt-60	-0.00100	U	-0.00064 76	U	0.0605		0.114	pCi/g	0	1
Lead-212	1.83		1.656		0.274		0.162	pCi/g	0.31	1
Lead-214	1.54		1.666		0.293		0.195	pCi/g	0.24	1
Potassium-40	23.5		23.29		3.32		0.930	pCi/g	0.04	1
Protactinium-231	-1.28	U	0.4693	U	0.708		2.76	pCi/g	0.77	1
Protactinium-234	-0.0367	U	0.05243	U	0.0560		0.365	pCi/g	0.66	1
Radium-224	2.45		1.747	U	1.25		1.96	pCi/g	0.27	1
Thallium-208	0.591		0.6948		0.134		0.0876	pCi/g	0.42	1
Thorium-227	0.0645	U	-0.00339 2	U	0.00589		1.84	pCi/g	0.42	1
Thorium-234	1.50	U	1.325	U	0.800		2.38	pCi/g	0.11	1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-136102/1-A
Matrix: Solid
Analysis Batch: 141027

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136102

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1083	U	0.127	0.128	1.00	0.209	pCi/g	08/06/14 14:42	08/29/14 14:49	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*121*	*X*	*40 - 110*	*08/06/14 14:42*	*08/29/14 14:49*	*1*

Lab Sample ID: LCS 160-136102/2-A
Matrix: Solid
Analysis Batch: 141027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136102

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	8.949		1.04	1.00	0.201	pCi/g	80	65 - 140

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*118*	*X*	*40 - 110*

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 160-7727-1 DU
Matrix: Solid
Analysis Batch: 141027

Client Sample ID: AL-1
Prep Type: Total/NA
Prep Batch: 136102

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	1.51			1.789		0.354	1.00	0.225	pCi/g			0.41	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*121*	*X*	*40 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-136109/1-A
Matrix: Solid
Analysis Batch: 141027

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136109

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1241	U	0.189	0.189	1.00	0.317	pCi/g	08/06/14 15:00	08/29/14 09:59	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*121*	*X*	*40 - 110*	*08/06/14 15:00*	*08/29/14 09:59*	*1*
Y Carrier	*89.7*		*40 - 110*	*08/06/14 15:00*	*08/29/14 09:59*	*1*

Lab Sample ID: LCS 160-136109/2-A
Matrix: Solid
Analysis Batch: 141027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136109

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			3.73	3.177		0.468	1.00	0.298	pCi/g	85	61 - 139		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*118*	*X*	*40 - 110*
Y Carrier	*90.1*		*40 - 110*

Lab Sample ID: 160-7727-M-1-G DU
Matrix: Solid
Analysis Batch: 141027

Client Sample ID: 160-7727-M-1-G DU
Prep Type: Total/NA
Prep Batch: 136109

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	1.00			1.498		0.315	1.00	0.309	pCi/g			0.85	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*121*	*X*	*40 - 110*
Y Carrier	*89.7*		*40 - 110*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-136090/1-A
Matrix: Solid
Analysis Batch: 137457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136090

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	0.01420	U	0.0394	0.0394	1.00	0.0829	pCi/g	08/06/14 13:51	08/12/14 15:59	1
Thorium-230	0.06977	U	0.0707	0.0710	1.00	0.106	pCi/g	08/06/14 13:51	08/12/14 15:59	1
Thorium-232	0.002526	U	0.0467	0.0467	1.00	0.107	pCi/g	08/06/14 13:51	08/12/14 15:59	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*89.7*		*30 - 110*	*08/06/14 13:51*	*08/12/14 15:59*	*1*

Lab Sample ID: LCS 160-136090/2-A
Matrix: Solid
Analysis Batch: 137476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136090

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			24.5	22.17		2.27	1.00	0.186	pCi/g	91	81 - 118		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*102*		*30 - 110*

Lab Sample ID: 160-7727-1 DU
Matrix: Solid
Analysis Batch: 137489

Client Sample ID: AL-1
Prep Type: Total/NA
Prep Batch: 136090

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Thorium-228	1.68			1.671		0.309	1.00	0.0764	pCi/g			0.01	1
Thorium-230	1.23			1.079		0.238	1.00	0.0337	pCi/g			0.31	1
Thorium-232	1.68			1.574		0.297	1.00	0.0509	pCi/g			0.18	1

Tracer	*DU %Yield*	*DU Qualifier*	*Limits*
Thorium-229	*84.6*		*30 - 110*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-136720/1-A
Matrix: Solid
Analysis Batch: 137456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136720

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	-0.008593	U	0.0336	0.0336	1.00	0.0953	pCi/g	08/06/14 13:51	08/12/14 16:00	1
Uranium-235/236	-0.004113	U	0.0294	0.0294	1.00	0.0935	pCi/g	08/06/14 13:51	08/12/14 16:00	1
Uranium-238	-0.01451	U	0.0343	0.0343	1.00	0.101	pCi/g	08/06/14 13:51	08/12/14 16:00	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*90.2*		*30 - 110*	*08/06/14 13:51*	*08/12/14 16:00*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-136720/2-A
Matrix: Solid
Analysis Batch: 137499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136720

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Uranium-233/234			6.37	5.925		0.717	1.00	0.0856	pCi/g	93	84 - 120		
Uranium-238			6.51	5.754		0.701	1.00	0.0722	pCi/g	88	82 - 122		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*86.9*		*30 - 110*

Lab Sample ID: 160-7727-1 DU
Matrix: Solid
Analysis Batch: 137525

Client Sample ID: AL-1
Prep Type: Total/NA
Prep Batch: 136720

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Uranium-233/234	1.22			1.295		0.276	1.00	0.0871	pCi/g			0.14	1
Uranium-235/236	0.0363	U		0.03716	U	0.0538	1.00	0.0867	pCi/g			0.01	1
Uranium-238	1.10			1.561		0.307	1.00	0.0869	pCi/g			0.83	1

Tracer	*DU %Yield*	*DU Qualifier*	*Limits*
Uranium-232	*79.1*		*30 - 110*

GC/MS VOA

Prep Batch: 136022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	5035	
160-7727-2	AL-2	Total/NA	Solid	5035	
LCS 160-136022/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 160-136022/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 160-136022/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 137777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	8260C	136022
160-7727-2	AL-2	Total/NA	Solid	8260C	136022
LCS 160-136022/2-A	Lab Control Sample	Total/NA	Solid	8260C	136022
LCSD 160-136022/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	136022
MB 160-136022/1-A	Method Blank	Total/NA	Solid	8260C	136022

GC/MS Semi VOA

Prep Batch: 237585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	3550C	
160-7727-2	AL-2	Total/NA	Solid	3550C	
LCS 280-237585/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 280-237585/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 237848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	8270C	237585
LCS 280-237585/2-A	Lab Control Sample	Total/NA	Solid	8270C	237585
MB 280-237585/1-A	Method Blank	Total/NA	Solid	8270C	237585

Analysis Batch: 238530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-2	AL-2	Total/NA	Solid	8270C	237585

Specialty Organics

Prep Batch: 49225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	8290	
160-7727-1 - RA	AL-1	Total/NA	Solid	8290	
160-7727-2	AL-2	Total/NA	Solid	8290	
160-7727-2 - RA	AL-2	Total/NA	Solid	8290	
LCS 320-49225/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-49225/1-A	Method Blank	Total/NA	Solid	8290	

Prep Batch: 49235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	HRMS-Sox	
160-7727-2	AL-2	Total/NA	Solid	HRMS-Sox	
LCS 320-49235/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-49235/1-A	Method Blank	Total/NA	Solid	8290	

Specialty Organics (Continued)

Analysis Batch: 49526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	1668C	49235
160-7727-2	AL-2	Total/NA	Solid	1668C	49235
LCS 320-49235/2-A	Lab Control Sample	Total/NA	Solid	1668C	49235
MB 320-49235/1-A	Method Blank	Total/NA	Solid	1668C	49235

Analysis Batch: 50594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	8290A	49225
160-7727-2	AL-2	Total/NA	Solid	8290A	49225
LCS 320-49225/2-A	Lab Control Sample	Total/NA	Solid	8290A	49225
MB 320-49225/1-A	Method Blank	Total/NA	Solid	8290A	49225

Analysis Batch: 50729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1 - RA	AL-1	Total/NA	Solid	8290A	49225
160-7727-2 - RA	AL-2	Total/NA	Solid	8290A	49225

Metals

Prep Batch: 135554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	3050B	
160-7727-1 MS	AL-1	Total/NA	Solid	3050B	
160-7727-1 MSD	AL-1	Total/NA	Solid	3050B	
160-7727-2	AL-2	Total/NA	Solid	3050B	
LCSSRM 160-135554/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-135554/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 135557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	3050B	
160-7727-1 MS	AL-1	Total/NA	Solid	3050B	
160-7727-1 MSD	AL-1	Total/NA	Solid	3050B	
160-7727-2	AL-2	Total/NA	Solid	3050B	
LCS 160-135557/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-135557/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-135557/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 137790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	7471B	
160-7727-1 MS	AL-1	Total/NA	Solid	7471B	
160-7727-1 MSD	AL-1	Total/NA	Solid	7471B	
160-7727-2	AL-2	Total/NA	Solid	7471B	
LCSSRM 160-137790/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-137790/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 137836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	7471B	137790

Metals (Continued)

Analysis Batch: 137836 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1 MS	AL-1	Total/NA	Solid	7471B	137790
160-7727-1 MSD	AL-1	Total/NA	Solid	7471B	137790
160-7727-2	AL-2	Total/NA	Solid	7471B	137790
LCSSRM 160-137790/2-A	Lab Control Sample	Total/NA	Solid	7471B	137790
MB 160-137790/1-A	Method Blank	Total/NA	Solid	7471B	137790

Analysis Batch: 140254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	6010C	135554
160-7727-1 MS	AL-1	Total/NA	Solid	6010C	135554
160-7727-1 MSD	AL-1	Total/NA	Solid	6010C	135554
160-7727-2	AL-2	Total/NA	Solid	6010C	135554
LCSSRM 160-135554/3-A	Lab Control Sample	Total/NA	Solid	6010C	135554
MB 160-135554/1-A	Method Blank	Total/NA	Solid	6010C	135554

Prep Batch: 140369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	3050B	
160-7727-1 MS	AL-1	Total/NA	Solid	3050B	
160-7727-1 MSD	AL-1	Total/NA	Solid	3050B	
160-7727-2	AL-2	Total/NA	Solid	3050B	
LCSSRM 160-140369/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-140369/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 140908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	6010C	140369
160-7727-1 MS	AL-1	Total/NA	Solid	6010C	140369
160-7727-1 MSD	AL-1	Total/NA	Solid	6010C	140369
160-7727-2	AL-2	Total/NA	Solid	6010C	140369
LCSSRM 160-140369/2-A	Lab Control Sample	Total/NA	Solid	6010C	140369
MB 160-140369/1-A	Method Blank	Total/NA	Solid	6010C	140369

Analysis Batch: 141068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	6020A	135557
160-7727-1 MS	AL-1	Total/NA	Solid	6020A	135557
160-7727-1 MSD	AL-1	Total/NA	Solid	6020A	135557
160-7727-2	AL-2	Total/NA	Solid	6020A	135557
LCS 160-135557/2-A	Lab Control Sample	Total/NA	Solid	6020A	135557
LCSSRM 160-135557/3-A	Lab Control Sample	Total/NA	Solid	6020A	135557
MB 160-135557/1-A	Method Blank	Total/NA	Solid	6020A	135557

General Chemistry

Analysis Batch: 136026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-2	AL-2	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 136596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	Moisture	

Leach Batch: 138099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1 - DL	AL-1	Soluble	Solid	DI Leach	
160-7727-1 DU - DL	AL-1	Soluble	Solid	DI Leach	
160-7727-1 MS - DL	AL-1	Soluble	Solid	DI Leach	
160-7727-2	AL-2	Soluble	Solid	DI Leach	
LCS 160-138099/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 160-138099/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 138782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1 - DL	AL-1	Soluble	Solid	300.0	138099
160-7727-1 DU - DL	AL-1	Soluble	Solid	300.0	138099
160-7727-1 MS - DL	AL-1	Soluble	Solid	300.0	138099
160-7727-2	AL-2	Soluble	Solid	300.0	138099
LCS 160-138099/2-A	Lab Control Sample	Soluble	Solid	300.0	138099
MB 160-138099/1-A	Method Blank	Soluble	Solid	300.0	138099

Rad

Leach Batch: 135588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	Dry and Grind	
160-7727-1 DU	AL-1	Total/NA	Solid	Dry and Grind	
160-7727-2	AL-2	Total/NA	Solid	Dry and Grind	
160-7727-M-1-G DU	160-7727-M-1-G DU	Total/NA	Solid	Dry and Grind	

Prep Batch: 136090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	ExtChrom	135588
160-7727-1 DU	AL-1	Total/NA	Solid	ExtChrom	135588
160-7727-2	AL-2	Total/NA	Solid	ExtChrom	135588
LCS 160-136090/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-136090/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 136102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	DPS-21	135588
160-7727-1 DU	AL-1	Total/NA	Solid	DPS-21	135588
160-7727-2	AL-2	Total/NA	Solid	DPS-21	135588
LCS 160-136102/2-A	Lab Control Sample	Total/NA	Solid	DPS-21	
MB 160-136102/1-A	Method Blank	Total/NA	Solid	DPS-21	

Prep Batch: 136109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	DPS-0	135588
160-7727-2	AL-2	Total/NA	Solid	DPS-0	135588
160-7727-M-1-G DU	160-7727-M-1-G DU	Total/NA	Solid	DPS-0	135588

Rad (Continued)

Prep Batch: 136109 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-136109/2-A	Lab Control Sample	Total/NA	Solid	DPS-0	
MB 160-136109/1-A	Method Blank	Total/NA	Solid	DPS-0	

Prep Batch: 136605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	Fill_Geo-21	135588
160-7727-1 DU	AL-1	Total/NA	Solid	Fill_Geo-21	135588
160-7727-2	AL-2	Total/NA	Solid	Fill_Geo-21	135588
LCS 160-136605/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-136605/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Prep Batch: 136720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	ExtChrom	135588
160-7727-1 DU	AL-1	Total/NA	Solid	ExtChrom	135588
160-7727-2	AL-2	Total/NA	Solid	ExtChrom	135588
LCS 160-136720/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-136720/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 136728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7727-1	AL-1	Total/NA	Solid	Thin_Layer	135588
160-7727-2	AL-2	Total/NA	Solid	Thin_Layer	135588
LCS 160-136728/2-A	Lab Control Sample	Total/NA	Solid	Thin_Layer	
MB 160-136728/1-A	Method Blank	Total/NA	Solid	Thin_Layer	

Surrogate Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(63-150)	(70-126)	(72-127)	(80-120)
160-7727-1	AL-1	95	106	119	92
160-7727-2	AL-2	108	110	124	99
LCS 160-136022/2-A	Lab Control Sample	97	97	101	102
LCSD 160-136022/3-A	Lab Control Sample Dup	98	100	100	103
MB 160-136022/1-A	Method Blank	94	101	105	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(50-120)	(53-120)	(50-120)	(52-120)	(55-120)	(51-120)
160-7727-1	AL-1	79	74	76	74	92	72
160-7727-2	AL-2	79	77	81	79	92	64
LCS 280-237585/2-A	Lab Control Sample	86	80	81	81	94	81
MB 280-237585/1-A	Method Blank	81	79	80	80	95	72

Surrogate Legend

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

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Surrogate Recovery (Acceptance Limits)		
		PCB-28L	PCB-111L	PCB-178L
Lab Sample ID	Client Sample ID	(5-145)	(10-145)	(10-145)
160-7727-1	AL-1	61	64	76
160-7727-2	AL-2	64	68	89
LCS 320-49235/2-A	Lab Control Sample	66	72	82
MB 320-49235/1-A	Method Blank	59	69	86

Surrogate Legend

PCB-28L = PCB-28L
PCB-111L = PCB-111L
PCB-178L = PCB-178L

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
160-7727-1	AL-1	116 X
160-7727-1 DU	AL-1	121 X
160-7727-2	AL-2	118 X
LCS 160-136102/2-A	Lab Control Sample	118 X
MB 160-136102/1-A	Method Blank	121 X

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
160-7727-1	AL-1	116 X	91.6
160-7727-2	AL-2	118 X	88.6
160-7727-M-1-G DU	160-7727-M-1-G DU	121 X	89.7
LCS 160-136109/2-A	Lab Control Sample	118 X	90.1
MB 160-136109/1-A	Method Blank	121 X	89.7

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		Th-229
Lab Sample ID	Client Sample ID	(30-110)
160-7727-1	AL-1	83.9
160-7727-1 DU	AL-1	84.6
160-7727-2	AL-2	106
LCS 160-136090/2-A	Lab Control Sample	102
MB 160-136090/1-A	Method Blank	89.7

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		U-232
Lab Sample ID	Client Sample ID	(30-110)
160-7727-1	AL-1	81.1
160-7727-1 DU	AL-1	79.1
160-7727-2	AL-2	77.6
LCS 160-136720/2-A	Lab Control Sample	86.9

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

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

		Percent Yield (Acceptance Limits)							
Lab Sample ID	Client Sample ID	U-232 (30-110)							
MB 160-136720/1-A	Method Blank	90.2							

Tracer/Carrier Legend

U-232 = Uranium-232

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Client Sample ID: AL-1

Lab Sample ID: 160-7727-1

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		31	TEQ
Total PCB TEQ					pg/g		19	TEQ
Total TEQ					pg/g		50	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	1200	U G	1200	1200	pg/g	0.0001	0.00	1668C
PCB-81	1100	U G	1100	1100	pg/g	0.0003	0.00	1668C
PCB-105	**200000**	**E G B**	5400	5400	pg/g	0.00003	**6.0**	1668C
PCB-114	5600	U G	5600	5600	pg/g	0.00003	0.00	1668C
PCB-118	**390000**	**E G B**	4800	4800	pg/g	0.00003	**12**	1668C
PCB-123	5400	U G	5400	5400	pg/g	0.00003	0.00	1668C
PCB-126	9400	U G	9400	9400	pg/g	0.1	0.00	1668C
PCB-156/157	**37000**	**G**	420	420	pg/g	0.00003	**1.1**	1668C
PCB-167	**10000**	**G**	320	320	pg/g	0.00003	**0.30**	1668C
PCB-169	520	U G	520	520	pg/g	0.03	0.00	1668C
PCB-189	**1200**		130	35	pg/g	0.00003	**0.036**	1668C
2,3,7,8-TCDD	**2.0**	**J q**	13	0.59	pg/g	1	**2.0**	8290A
1,2,3,7,8-PeCDD	3.7	U	63	3.7	pg/g	1	0.00	8290A
1,2,3,7,8-PeCDF	**24**	**J**	63	2.1	pg/g	0.03	**0.72**	8290A
2,3,4,7,8-PeCDF	**17**	**J**	63	2.2	pg/g	0.3	**5.1**	8290A
1,2,3,4,7,8-HxCDD	**2.0**	**J**	63	0.48	pg/g	0.1	**0.20**	8290A
1,2,3,6,7,8-HxCDD	**3.6**	**J**	63	0.48	pg/g	0.1	**0.36**	8290A
1,2,3,7,8,9-HxCDD	**3.1**	**J q B**	63	0.44	pg/g	0.1	**0.31**	8290A
1,2,3,4,7,8-HxCDF	**81**	**B**	63	1.3	pg/g	0.1	**8.1**	8290A
1,2,3,6,7,8-HxCDF	**31**	**J B**	63	1.2	pg/g	0.1	**3.1**	8290A
1,2,3,7,8,9-HxCDF	**4.2**	**J B**	63	1.3	pg/g	0.1	**0.42**	8290A
2,3,4,6,7,8-HxCDF	**11**	**J B**	63	1.2	pg/g	0.1	**1.1**	8290A
1,2,3,4,6,7,8-HpCDD	**23**	**J B**	63	0.65	pg/g	0.01	**0.23**	8290A
1,2,3,4,6,7,8-HpCDF	**300**		63	1.9	pg/g	0.01	**3.0**	8290A
1,2,3,4,7,8,9-HpCDF	**83**	**B**	63	2.3	pg/g	0.01	**0.83**	8290A
OCDD	**150**	**B**	130	1.0	pg/g	0.0003	**0.045**	8290A
OCDF	**9200**	**B**	130	28	pg/g	0.0003	**2.8**	8290A
2,3,7,8-TCDF - RA	**26**		13	1.4	pg/g	0.1	**2.6**	8290A

Client Sample ID: AL-2

Lab Sample ID: 160-7727-2

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		130	TEQ
Total PCB TEQ					pg/g		2.3	TEQ
Total TEQ					pg/g		140	TEQ

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Client Sample ID: AL-2 (Continued)

Lab Sample ID: 160-7727-2

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**600**	**q G**	170	170	pg/g	0.0001	**0.060**	1668C
PCB-81	150	U G	150	150	pg/g	0.0003	0.00	1668C
PCB-105	**18000**	**G B**	840	840	pg/g	0.00003	**0.54**	1668C
PCB-114	820	U G	820	820	pg/g	0.00003	0.00	1668C
PCB-118	**44000**	**G B**	740	740	pg/g	0.00003	**1.3**	1668C
PCB-123	800	U G	800	800	pg/g	0.00003	0.00	1668C
PCB-126	1200	U G	1200	1200	pg/g	0.1	0.00	1668C
PCB-156/157	**8900**		220	160	pg/g	0.00003	**0.27**	1668C
PCB-167	**2800**		110	110	pg/g	0.00003	**0.084**	1668C
PCB-169	190	U G	190	190	pg/g	0.03	0.00	1668C
PCB-189	**840**		110	24	pg/g	0.00003	**0.025**	1668C
2,3,7,8-TCDD	**2.5**	**J q**	11	0.66	pg/g	1	**2.5**	8290A
1,2,3,7,8-PeCDD	**5.6**	**J**	54	2.8	pg/g	1	**5.6**	8290A
1,2,3,7,8-PeCDF	**120**		54	3.9	pg/g	0.03	**3.6**	8290A
2,3,4,7,8-PeCDF	**57**		54	4.0	pg/g	0.3	**17**	8290A
1,2,3,4,7,8-HxCDD	**17**	**J**	54	0.62	pg/g	0.1	**1.7**	8290A
1,2,3,6,7,8-HxCDD	**14**	**J**	54	0.61	pg/g	0.1	**1.4**	8290A
1,2,3,7,8,9-HxCDD	**15**	**J B**	54	0.56	pg/g	0.1	**1.5**	8290A
1,2,3,4,7,8-HxCDF	**470**	**B**	54	7.3	pg/g	0.1	**47**	8290A
1,2,3,6,7,8-HxCDF	**130**	**B**	54	6.6	pg/g	0.1	**13**	8290A
1,2,3,7,8,9-HxCDF	**19**	**J B**	54	7.7	pg/g	0.1	**1.9**	8290A
2,3,4,6,7,8-HxCDF	**43**	**J B**	54	7.0	pg/g	0.1	**4.3**	8290A
1,2,3,4,6,7,8-HpCDD	**200**	**B**	54	2.9	pg/g	0.01	**2.0**	8290A
1,2,3,4,6,7,8-HpCDF	**1200**		54	5.9	pg/g	0.01	**12**	8290A
1,2,3,4,7,8,9-HpCDF	**400**	**B**	54	7.1	pg/g	0.01	**4.0**	8290A
OCDD	**1100**	**B**	110	5.0	pg/g	0.0003	**0.33**	8290A
OCDF	**27000**	**B**	110	67	pg/g	0.0003	**8.1**	8290A
2,3,7,8-TCDF - RA	**85**		11	1.8	pg/g	0.1	**8.5**	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-1L	PCB-3L	PCB-4L	PCB-15L	PCB-19L	PCB-37L	PCB-54L	PCB-77L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(10-145)
160-7727-1	AL-1	54	61	69	58	69	58	69	65
160-7727-2	AL-2	56	60	67	60	73	52	69	61
MB 320-49235/1-A	Method Blank	44	53	61	59	70	59	60	72

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-81L	PCB-104L	PCB-105L	PCB-114L	PCB-118L	PCB-123L	PCB-126L	PCB-155L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)
160-7727-1	AL-1	68	56	80	73	79	73	70	56
160-7727-2	AL-2	63	60	76	78	78	74	77	65
MB 320-49235/1-A	Method Blank	69	58	79	76	77	74	75	63

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		CB-156L/15	PCB-167L	PCB-169L	PCB-188L	PCB-189L	PCB-202L	PCB-205L	PCB-206L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)
160-7727-1	AL-1	84	78	83	67	75	76	81	78
160-7727-2	AL-2	95	94	102	71	78	86	91	89
MB 320-49235/1-A	Method Blank	90	88	89	74	81	84	91	90

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-208L	PCB-209L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)
160-7727-1	AL-1	86	75
160-7727-2	AL-2	97	86
MB 320-49235/1-A	Method Blank	95	85

Surrogate Legend

PCB-1L = PCB-1L
PCB-3L = PCB-3L
PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-19L = PCB-19L
PCB-37L = PCB-37L
PCB-54L = PCB-54L
PCB-77L = PCB-77L
PCB-81L = PCB-81L
PCB-104L = PCB-104L
PCB-105L = PCB-105L
PCB-114L = PCB-114L
PCB-118L = PCB-118L
PCB-123L = PCB-123L
PCB-126L = PCB-126L
PCB-155L = PCB-155L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-169L = PCB-169L
PCB-188L = PCB-188L
PCB-189L = PCB-189L
PCB-202L = PCB-202L
PCB-205L = PCB-205L
PCB-206L = PCB-206L
PCB-208L = PCB-208L
PCB-209L = PCB-209L

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET - CSM

TestAmerica Job ID: 160-7727-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-1L	PCB-3L	PCB-4L	PCB-15L	PCB-19L	PCB-37L	PCB-54L	PCB-77L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(15-145)	(15-145)	(15-145)	(15-145)	(15-145)	(40-145)
LCS 320-49235/2-A	Lab Control Sample	49	61	68	68	77	64	71	75

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-81L	PCB-104L	PCB-105L	PCB-114L	PCB-118L	PCB-123L	PCB-126L	PCB-155L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)
LCS 320-49235/2-A	Lab Control Sample	72	61	78	79	78	77	78	67

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		CB-156L/15	PCB-167L	PCB-169L	PCB-188L	PCB-189L	PCB-202L	PCB-205L	PCB-206L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)
LCS 320-49235/2-A	Lab Control Sample	90	87	93	77	80	84	85	85

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-208L	PCB-209L						
Lab Sample ID	Client Sample ID	(40-145)	(40-145)						
LCS 320-49235/2-A	Lab Control Sample	90	82						

Surrogate Legend

PCB-1L = PCB-1L
PCB-3L = PCB-3L
PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-19L = PCB-19L
PCB-37L = PCB-37L
PCB-54L = PCB-54L
PCB-77L = PCB-77L
PCB-81L = PCB-81L
PCB-104L = PCB-104L
PCB-105L = PCB-105L
PCB-114L = PCB-114L
PCB-118L = PCB-118L
PCB-123L = PCB-123L
PCB-126L = PCB-126L
PCB-155L = PCB-155L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-169L = PCB-169L
PCB-188L = PCB-188L
PCB-189L = PCB-189L
PCB-202L = PCB-202L
PCB-205L = PCB-205L
PCB-206L = PCB-206L
PCB-208L = PCB-208L
PCB-209L = PCB-209L

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		TCDD	TCDF	PeCDD	PeCDF1	HxCDD2	HxCDF1	HpCDD	HpCDF1
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
160-7727-1	AL-1	101	100	109	104	104	86	105	103

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF1 (40-135)	HxCDD2 (40-135)	HxCDF1 (40-135)	HpCDD (40-135)	HpCDF1 (40-135)
160-7727-1 - RA	AL-1		103						
160-7727-2	AL-2	97	93	92	107	100	83	102	98
160-7727-2 - RA	AL-2		97						
LCS 320-49225/2-A	Lab Control Sample	101	98	109	105	103	85	105	99
MB 320-49225/1-A	Method Blank	103	100	98	112	104	86	102	100

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	OCDD (40-135)							
160-7727-1	AL-1	118							
160-7727-1 - RA	AL-1								
160-7727-2	AL-2	93							
160-7727-2 - RA	AL-2								
LCS 320-49225/2-A	Lab Control Sample	116							
MB 320-49225/1-A	Method Blank	112							

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
OCDD = 13C-OCDD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-96214-1
Client Project/Site: TIMET

For:
GEI Consultants, Inc.
311 B Avenue
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Attn: Mr. Marc Chartier

Kathryn Smith

Authorized for release by:
1/24/2014 5:06:31 PM

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LINKS

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

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

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

Job ID: 680-96214-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: GEI Consultants, Inc.

Project: TIMET

Report Number: 680-96214-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/15/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 3.2º C and 3.7º C.

CHLORINATED BIPHENYL CONGENERS

Sample DD-B-5_SS (680-96214-1) was analyzed for chlorinated biphenyl congeners in accordance with epa method 1668C. The samples were prepared on 12/21/2013 and analyzed on 12/31/2013.

Several analytes were detected in method blank MB 320-32403/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Sample RINSATE (680-96214-7) was analyzed for chlorinated biphenyl congeners in accordance with EPA method 1668C. The samples were prepared on 12/12/2013 and analyzed on 12/20/2013.

Several analytes were detected in method blank MB 320-31731/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The concentration of one or more analytes associated with the following samples exceeded the instrument calibration range: DD-B-5_SS (680-96214-1). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

Job ID: 680-96214-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

METALS (ICP)

Samples DD-B-5_SS (680-96214-1), DD-B-5_SUB (680-96214-2), NS-B-2_SS (680-96214-3), NS-B-2_SUB (680-96214-4), NS-B-1_SS (680-96214-5) and NS-B-1_SUB (680-96214-6) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/04/2013 and analyzed on 12/18/2013 and 12/19/2013.

Samples DD-B-5_SS (680-96214-1)[5X], DD-B-5_SUB (680-96214-2)[5X], NS-B-2_SS (680-96214-3)[5X], NS-B-2_SUB (680-96214-4)[5X], NS-B-1_SS (680-96214-5)[5X] and NS-B-1_SUB (680-96214-6)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Sample RINSATE (680-96214-7) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/16/2013 and analyzed on 12/18/2013.

Zinc was detected in method blank MB 160-92546/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Aluminum, Potassium and Sodium failed the recovery criteria high for LCS 160-92546/2-A.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples DD-B-5_SS (680-96214-1), DD-B-5_SUB (680-96214-2), NS-B-2_SS (680-96214-3), NS-B-2_SUB (680-96214-4), NS-B-1_SS (680-96214-5) and NS-B-1_SUB (680-96214-6) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 11/21/2013 and analyzed on 12/17/2013 and 12/21/2013.

Samples DD-B-5_SS (680-96214-1)[10X], DD-B-5_SUB (680-96214-2)[10X], NS-B-2_SS (680-96214-3)[10X], NS-B-2_SS (680-96214-3)[20X], NS-B-2_SUB (680-96214-4)[10X], NS-B-1_SS (680-96214-5)[10X] and NS-B-1_SUB (680-96214-6)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

METALS (ICPMS)

Sample RINSATE (680-96214-7) was analyzed for Metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 12/16/2013 and analyzed on 12/20/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample RINSATE (680-96214-7) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 11/19/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

Job ID: 680-96214-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

TOTAL MERCURY
Samples DD-B-5_SS (680-96214-1), DD-B-5_SUB (680-96214-2), NS-B-2_SS (680-96214-3), NS-B-2_SUB (680-96214-4), NS-B-1_SS (680-96214-5) and NS-B-1_SUB (680-96214-6) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 11/18/2013 and analyzed on 11/24/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

ANIONS BY IC
Samples DD-B-5_SS (680-96214-1), DD-B-5_SUB (680-96214-2), NS-B-2_SS (680-96214-3), NS-B-2_SUB (680-96214-4), NS-B-1_SS (680-96214-5) and NS-B-1_SUB (680-96214-6) were analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were leached on 12/04/2013 and analyzed on 12/05/2013.

Samples NS-B-2_SS (680-96214-3)[100X], NS-B-2_SS (680-96214-3)[5X], NS-B-2_SUB (680-96214-4)[20X], NS-B-1_SS (680-96214-5)[50X], NS-B-1_SS (680-96214-5)[500X], NS-B-1_SUB (680-96214-6)[5X] and NS-B-1_SUB (680-96214-6)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

ANIONS BY IC
Sample RINSATE (680-96214-7) was analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were analyzed on 11/15/2013.

No difficulties were encountered during the Anions analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/MOISTURE
Samples DD-B-5_SS (680-96214-1), DD-B-5_SUB (680-96214-2), NS-B-2_SS (680-96214-3), NS-B-2_SUB (680-96214-4), NS-B-1_SS (680-96214-5) and NS-B-1_SUB (680-96214-6) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/18/2013.

No difficulties were encountered during the % solids/moisture analysis.

All quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY
Samples NS-B-2_SS (680-96214-3), NS-B-2_SUB (680-96214-4), NS-B-1_SS (680-96214-5) and NS-B-1_SUB (680-96214-6) were analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were leached on 11/20/2013, prepared on 12/09/2013 and analyzed on 12/09/2013 and 12/10/2013.

No difficulties were encountered during the radioactivity analysis.

All quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY
Sample RINSATE (680-96214-7) was analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were prepared on 12/16/2013 and analyzed on 12/20/2013.

Gross Alpha exceeded the RPD limit for the duplicate of sample 160-4678-1.

Job ID: 680-96214-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No other difficulties were encountered during the gross alpha & beta analysis.

All other quality control parameters were within the acceptance limits.

RADIUM-226 AND OTHER GAMMA EMITTERS (GS)

Samples NS-B-2_SS (680-96214-3), NS-B-2_SUB (680-96214-4), NS-B-1_SS (680-96214-5) and NS-B-1_SUB (680-96214-6) were analyzed for Radium-226 and other gamma emitters (GS) in accordance with EPA Method 901.1. The samples were leached on 11/20/2013, prepared on 11/22/2013 and analyzed on 12/13/2013 and 12/15/2013.

Americium-241, Bismuth-210M, Cesium-137, Cobalt-57, Cobalt-60 and Protactinium-234 exceeded the RPD limit for the duplicate of sample NS-B-2_SSDU (680-96214-3).

No other difficulties were encountered during the radium-226 analysis.

All other quality control parameters were within the acceptance limits.

GAMMA EMITTERS

Sample RINSATE (680-96214-7) was analyzed for Gamma Emitters in accordance with 901.1. The samples were prepared on 11/18/2013 and analyzed on 12/09/2013.

Bismuth-210M, Cesium-134, Cesium-137, Cobalt-57, Protactinium-231, Radium-224 and Thorium-227 exceeded the RPD limit for the duplicate of sample 490-40331-1.

No other difficulties were encountered during the Gamma Emitters analysis.

All other quality control parameters were within the acceptance limits.

RADIUM-226 (GFPC)

Samples NS-B-2_SS (680-96214-3), NS-B-2_SUB (680-96214-4), NS-B-1_SS (680-96214-5) and NS-B-1_SUB (680-96214-6) were analyzed for Radium-226 (GFPC) in accordance with EPA Method 903.0. The samples were leached on 11/20/2013, prepared on 11/22/2013 and analyzed on 12/17/2013.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226

Sample RINSATE (680-96214-7) was analyzed for Radium-226 in accordance with EPA Method 903.0. The samples were prepared on 11/18/2013 and analyzed on 12/10/2013.

Radium-226 exceeded the RPD limit for the duplicate of sample RINSATE (680-96214-7).

No other difficulties were encountered during the radium-226 analysis.

All other quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Samples NS-B-2_SS (680-96214-3), NS-B-2_SUB (680-96214-4), NS-B-1_SS (680-96214-5) and NS-B-1_SUB (680-96214-6) were analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were leached on 11/20/2013, prepared on 11/22/2013 and analyzed on 12/11/2013.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

Job ID: 680-96214-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

RADIUM-228 (GFPC)

Sample RINSATE (680-96214-7) was analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were prepared on 11/18/2013 and analyzed on 12/04/2013.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC THORIUM

Samples NS-B-2_SS (680-96214-3), NS-B-2_SUB (680-96214-4), NS-B-1_SS (680-96214-5) and NS-B-1_SUB (680-96214-6) were analyzed for Isotopic Thorium in accordance with A01R_Th. The samples were leached on 11/20/2013, prepared on 12/16/2013 and analyzed on 12/24/2013, 12/27/2013 and 12/30/2013.

Thorium-228 and Thorium-230 were detected in method blank MB 160-92254/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Thorium-230 was detected in method blank MB 160-92428/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No other difficulties were encountered during the thorium analysis.

All other quality control parameters were within the acceptance limits.

THORIUM

Sample RINSATE (680-96214-7) was analyzed for Thorium in accordance with A01R_Th. The samples were prepared on 12/18/2013 and analyzed on 12/26/2013.

Thorium-230 was detected in method blank MB 160-92784/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No other difficulties were encountered during the Thorium analysis.

All other quality control parameters were within the acceptance limits.

ISOTOPIC URANIUM

Samples NS-B-2_SS (680-96214-3), NS-B-2_SUB (680-96214-4), NS-B-1_SS (680-96214-5) and NS-B-1_SUB (680-96214-6) were analyzed for Isotopic Uranium in accordance with A01R_U. The samples were leached on 11/20/2013, prepared on 12/16/2013 and analyzed on 12/26/2013.

Uranium-233/234 was detected in method blank MB 160-92431/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No other difficulties were encountered during the uranium analysis.

All other quality control parameters were within the acceptance limits.

URANIUM

Sample RINSATE (680-96214-7) was analyzed for Uranium in accordance with A01R_U. The samples were prepared on 12/18/2013 and analyzed on 12/26/2013.

No difficulties were encountered during the Uranium analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-96214-1	DD-B-5_SS	Solid	11/13/13 12:45	11/15/13 09:15
680-96214-2	DD-B-5_SUB	Solid	11/13/13 14:15	11/15/13 09:15
680-96214-3	NS-B-2_SS	Solid	11/13/13 15:00	11/15/13 09:15
680-96214-4	NS-B-2_SUB	Solid	11/13/13 15:45	11/15/13 09:15
680-96214-5	NS-B-1_SS	Solid	11/13/13 09:45	11/15/13 09:15
680-96214-6	NS-B-1_SUB	Solid	11/13/13 11:20	11/15/13 09:15
680-96214-7	RINSATE	Water	11/13/13 00:00	11/15/13 09:15

Method Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Method	Method Description	Protocol	Laboratory
1668C	Chlorinated Biphenyl Congeners (HRGC/HRMS)	EPA	TAL SAC
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL

Protocol References:

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Qualifiers

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The isomer is qualified as positively identified, but at an estimated quantity because the quantitation is based on the theoretical ratio for these samples.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
E	Result exceeded calibration range.
*	Isotope Dilution analyte exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
U	Indicates the analyte was analyzed for but not detected.
F	MS/MSD Recovery and/or RPD exceeds the 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.
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
X	Carrier exceeds control limit
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: DD-B-5_SS
Date Collected: 11/13/13 12:45
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-1
Matrix: Solid
Percent Solids: 97.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	82	B	41	0.91	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-2	60		41	0.83	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-3	61	B	41	0.78	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-4	94		41	10	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-5	11	J q	41	7.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-6	100		41	7.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-7	7.2	U q	41	7.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-8	150		41	7.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-9	34	J	41	8.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-10	5.3	U	41	5.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-11	130	B	41	8.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-12/13	100		82	8.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-14	6.7	U	41	6.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-15	150		41	7.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-16	77		41	2.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-17	31	J	41	2.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-18/30	100		82	1.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-19	18	J q	41	2.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-20/28	250	B	82	4.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-21/33	94	B	82	4.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-22	130		41	5.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-23	4.5	U	41	4.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-24	2.3	J	41	1.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-25	11	J q	41	4.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-26/29	36	J	82	4.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-27	14	J	41	1.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-31	190	B	41	4.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-32	44		41	1.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-34	4.6	U	41	4.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-35	29	J	41	5.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-36	4.7	U	41	4.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-37	290		41	5.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-38	5.1	U	41	5.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-39	4.8	U	41	4.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-40/71	170		82	0.55	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-41	25	J	41	0.72	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-42	87		41	0.61	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-43	12	J	41	0.63	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-44/47/65	390	B	120	0.53	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-45	42		41	0.62	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-46	16	J	41	0.66	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-48	48		41	0.56	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-49/69	180	B	82	0.46	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-50/53	37	J	82	0.52	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-51	9.9	J	41	0.52	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-52	670	B	41	0.58	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-54	0.76	U	41	0.76	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-55	9.0	U	41	9.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-56	250		41	9.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: DD-B-5_SS
Date Collected: 11/13/13 12:45
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-1
Matrix: Solid
Percent Solids: 97.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	8.9	U	41	8.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-58	**32**	**J**	41	9.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-59/62/75	**33**	**J**	120	0.41	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-60	**150**		41	9.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-61/70/74/76	**1000**	**B**	160	8.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-63	**21**	**J**	41	8.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-64	**190**		41	0.38	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-66	**550**	**B**	41	9.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-67	**12**	**J**	41	8.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-68	7.9	U	41	7.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-72	8.6	U	41	8.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-73	0.43	U	41	0.43	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-77	**260**	**G**	9.4	9.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-78	10	U	41	10	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-79	**56**		41	8.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-80	8.4	U	41	8.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-81	**11**	**G**	9.2	9.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-82	**210**	**G**	49	49	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-83	53	U q G	53	53	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-84	**300**	**G**	44	44	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-85/116/117	**420**		120	32	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-86/87/97/108/119/125	**1100**		250	33	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-88/91	**160**		82	37	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-89	42	U G	42	42	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-90/101/113	**1800**	**B**	120	34	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-92	**270**		41	39	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-93/100	37	U	82	37	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-107/124	**100**		82	31	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-94	39	U	41	39	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-95	**1100**	**B**	41	37	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-96	**3.9**	**J**	41	0.17	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-98/102	35	U	82	35	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-99	**890**		41	39	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-103	34	U	41	34	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-104	**0.40**	**J q**	41	0.22	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-105	**1400**	**G**	33	33	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-106	33	U	41	33	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-110/115	**3000**	**B**	82	30	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-109	**210**		41	29	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-111	27	U	41	27	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-112	26	U	41	26	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-114	**58**	**G**	31	31	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-118	**2500**	**G B**	30	30	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-120	29	U	41	29	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-121	27	U	41	27	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-122	34	U	41	34	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-123	**41**	**G**	31	31	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-126	**86**	**G**	36	36	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-127	33	U	41	33	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: DD-B-5_SS
Date Collected: 11/13/13 12:45
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-1
Matrix: Solid
Percent Solids: 97.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-128/166	**830**		82	19	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-129/138/163	**5400**	**B**	120	20	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-130	**300**		41	25	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-131	**25**	**J**	41	24	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-132	**1100**	**B**	41	23	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-133	**46**		41	22	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-134/143	**130**		82	23	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-135/151	**920**		82	20	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-136	**280**		41	15	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-137	**160**		41	20	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-139/140	**49**	**J**	82	19	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-141	**780**		41	21	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-142	22	U	41	22	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-144	**140**		41	20	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-145	14	U	41	14	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-146	**610**		41	21	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-147/149	**2400**	**B**	82	20	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-148	20	U	41	20	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-150	13	U	41	13	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-152	14	U	41	14	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-153/168	**3900**	**B**	82	17	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-154	**24**	**J**	41	18	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-155	17	U	41	17	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-156/157	**740**	**G**	11	11	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-158	**550**		41	15	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-159	**54**		41	9.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-160	17	U	41	17	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-161	15	U	41	15	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-162	**55**		41	9.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-164	**370**		41	17	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-165	18	U	41	18	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-167	**270**	**G**	8.6	8.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-169	10	U G	10	10	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-170	**2400**		41	5.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-171/173	**580**		82	4.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-172	**410**		41	5.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-174	**2000**		41	5.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-175	**68**		41	2.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-176	**130**		41	1.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-177	**1100**		41	5.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-178	**260**		41	2.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-179	**450**		41	1.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-180/193	**5300**	**B**	82	4.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-181	4.2	U	41	4.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-182	2.0	U	41	2.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-183	**1000**		41	3.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-184	**23**	**J**	41	1.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-185	**160**		41	4.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-186	1.5	U	41	1.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1

Client Sample ID: DD-B-5_SS
Date Collected: 11/13/13 12:45
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-1
Matrix: Solid
Percent Solids: 97.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-187	1800		41	2.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-188	20	J	41	1.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-189	92		4.1	1.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-190	510		41	3.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-191	130		41	3.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-192	3.8	U	41	3.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-194	1200		41	4.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-195	390		41	4.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-196	520		41	8.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-197	120		41	5.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-198/199	1000		82	9.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-200	120		41	6.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-201	190		41	6.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-202	200		41	7.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-203	640		41	8.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-204	31	J	41	6.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-205	110		41	2.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-206	810		41	3.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-207	1100		41	2.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-208	870		41	2.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-209	33000	E B	41	7.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Monochlorobiphenyls	200	J B	410	0.84	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Dichlorobiphenyls	780	q B	410	7.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Trichlorobiphenyls	1300	q B	410	3.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Tetrachlorobiphenyls	4200	B	410	4.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Pentachlorobiphenyls	14000	q B	410	33	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Hexachlorobiphenyls	19000	B	410	17	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Heptachlorobiphenyls	17000	B	410	3.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Octachlorobiphenyls	4600		410	6.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Nonachlorobiphenyls	2800		410	2.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Polychlorinated biphenyls, Total	96000	q B	410	8.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*35*		*5 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-15L	*53*		*5 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-123L	*71*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-114L	*73*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-202L	*62*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-3L	*40*		*5 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-118L	*73*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-126L	*77*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-206L	*74*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-169L	*98*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-37L	*67*		*5 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-19L	*44*		*5 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-188L	*50*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-54L	*35*		*5 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-156L/157L	*96*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-167L	*92*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-209L	*66*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*

Client Sample ID: DD-B-5_SS
Date Collected: 11/13/13 12:45
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-1
Matrix: Solid
Percent Solids: 97.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-189L	79		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-105L	74		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-208L	75		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-1L	33		5 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-104L	41		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-81L	81		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-77L	81		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-205L	82		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-155L	59		10 - 145	12/21/13 12:08	12/31/13 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	60		5 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-111L	71		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-178L	68		10 - 145	12/21/13 12:08	12/31/13 21:37	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9900**		99	69	mg/Kg	☼	12/04/13 10:55	12/19/13 19:57	5
Antimony	3.2	U	4.9	3.2	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Barium	**350**		25	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Beryllium	0.83	U	2.5	0.83	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Cadmium	**0.54**	**J**	2.5	0.49	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Calcium	**21000**		1200	66	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Chromium	**46**		4.9	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Cobalt	**19**	**J**	25	4.6	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Copper	**44**		12	3.6	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Iron	**13000**		49	15	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Lead	**26**		4.9	0.85	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Magnesium	**11000**		490	41	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Manganese	**2600**		4.9	0.76	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Nickel	**27**		20	1.1	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Potassium	**2200**	**J**	2500	1700	mg/Kg	☼	12/04/13 10:55	12/19/13 19:57	5
Selenium	**1.5**	**J**	7.4	1.4	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Silver	1.2	U	4.9	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Sodium	**470**	**J**	490	230	mg/Kg	☼	12/04/13 10:55	12/19/13 19:57	5
Titanium	**1100**		9.9	3.1	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Vanadium	**77**		25	6.2	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Zinc	**60**		25	9.8	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.3**	**J**	5.0	1.3	mg/Kg	☼	11/21/13 09:19	12/17/13 01:38	10
Niobium	**50**		13	1.9	mg/Kg	☼	11/21/13 09:19	12/17/13 01:38	10
Thallium	0.76	U ^	2.5	0.76	mg/Kg	☼	11/21/13 09:19	12/17/13 01:38	10
Uranium	**4.5**		0.50	0.10	mg/Kg	☼	11/21/13 09:19	12/17/13 01:38	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.045**		0.031	0.010	mg/Kg	☼	11/18/13 14:10	11/24/13 12:08	1

Client Sample ID: DD-B-5_SS

Lab Sample ID: 680-96214-1
Date Collected: 11/13/13 12:45
Matrix: Solid
Date Received: 11/15/13 09:15
Percent Solids: 97.2

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	7.6		0.21	0.041	mg/Kg	☼		12/05/13 13:46	1
Chloride	22		2.1	0.21	mg/Kg	☼		12/05/13 13:46	1
Sulfate	61		5.2	0.52	mg/Kg	☼		12/05/13 13:46	1

Client Sample ID: DD-B-5_SUB

Lab Sample ID: 680-96214-2
Date Collected: 11/13/13 14:15
Matrix: Solid
Date Received: 11/15/13 09:15
Percent Solids: 95.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9500		100	72	mg/Kg	☼	12/04/13 10:55	12/19/13 20:12	5
Antimony	3.3	U	5.2	3.3	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Barium	160		26	1.3	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Beryllium	0.87	U	2.6	0.87	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Cadmium	0.52	U	2.6	0.52	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Calcium	25000		1300	69	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Chromium	11		5.2	1.6	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Cobalt	9.3	J	26	4.9	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Copper	16		13	3.8	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Iron	13000		52	15	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Lead	9.1		5.2	0.89	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Magnesium	8300		520	43	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Manganese	340		5.2	0.80	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Nickel	17	J	21	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Potassium	1700	U	2600	1700	mg/Kg	☼	12/04/13 10:55	12/19/13 20:12	5
Selenium	1.5	U	7.8	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Silver	1.2	U	5.2	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Sodium	600		520	240	mg/Kg	☼	12/04/13 10:55	12/19/13 20:12	5
Titanium	670		10	3.3	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Vanadium	30		26	6.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Zinc	34		26	10	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		4.7	1.2	mg/Kg	☼	11/21/13 09:19	12/17/13 02:05	10
Niobium	1.8	U	12	1.8	mg/Kg	☼	11/21/13 09:19	12/17/13 02:05	10
Thallium	0.72	U ^	2.4	0.72	mg/Kg	☼	11/21/13 09:19	12/17/13 02:05	10
Uranium	1.3		0.47	0.094	mg/Kg	☼	11/21/13 09:19	12/17/13 02:05	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	11/18/13 14:10	11/24/13 12:18	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.30		0.21	0.042	mg/Kg	☼		12/05/13 14:29	1
Chloride	28		2.1	0.21	mg/Kg	☼		12/05/13 14:29	1
Sulfate	56		5.2	0.52	mg/Kg	☼		12/05/13 14:29	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: NS-B-2_SS
Date Collected: 11/13/13 15:00
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-3
Matrix: Solid
Percent Solids: 82.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6200		110	75	mg/Kg	☼	12/04/13 10:55	12/19/13 20:16	5
Antimony	3.4	U	5.4	3.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Barium	1200		27	1.3	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Beryllium	0.91	U	2.7	0.91	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Cadmium	0.54	U	2.7	0.54	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Calcium	14000		1300	71	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Chromium	770		5.4	1.6	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Cobalt	15	J	27	5.0	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Copper	33		13	3.9	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Iron	12000		54	16	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Lead	58		5.4	0.92	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Magnesium	7900		540	45	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Manganese	880		5.4	0.83	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Nickel	30		21	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Potassium	1800	U	2700	1800	mg/Kg	☼	12/04/13 10:55	12/19/13 20:16	5
Selenium	1.7	J	8.0	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Silver	1.3	U	5.4	1.3	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Sodium	1200		540	250	mg/Kg	☼	12/04/13 10:55	12/19/13 20:16	5
Titanium	2100		11	3.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Vanadium	1400		27	6.8	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Zinc	54		27	11	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		5.8	1.5	mg/Kg	☼	11/21/13 09:19	12/17/13 02:12	10
Niobium	140		29	4.4	mg/Kg	☼	11/21/13 09:19	12/21/13 07:33	20
Thallium	0.88	U ^	2.9	0.88	mg/Kg	☼	11/21/13 09:19	12/17/13 02:12	10
Uranium	9.3		0.58	0.11	mg/Kg	☼	11/21/13 09:19	12/17/13 02:12	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.035	0.012	mg/Kg	☼	11/18/13 14:10	11/24/13 12:20	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	32		1.2	0.24	mg/Kg	☼		12/05/13 19:47	5
Chloride	2100		240	24	mg/Kg	☼		12/05/13 20:01	100
Sulfate	500		30	3.0	mg/Kg	☼		12/05/13 19:47	5

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	108		10.0	4.87	pCi/g		12/09/13 08:58	12/09/13 20:42	1
Gross Beta	55.8		10.0	3.53	pCi/g		12/09/13 08:58	12/09/13 20:42	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.60			0.251	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Bismuth-212	3.46			0.931	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Bismuth-214	3.89			0.182	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Bismuth-210M	-0.00195	U		0.157	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Cesium-134	0.0832	U		0.397	pCi/g		11/22/13 12:38	12/15/13 18:59	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: NS-B-2_SS
Date Collected: 11/13/13 15:00
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-3
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Cesium-137	-0.00321	U		0.113	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Cobalt-57	0.0669	U		0.0674	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Cobalt-60	-0.0152	U		0.120	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Lead-212	**2.46**			0.180	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Lead-214	**4.20**			0.259	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Potassium-40	**21.4**			0.884	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Protactinium-231	**2.38**			2.13	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Protactinium-234	0.0120	U		0.459	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Radium-224	2.67	U		2.92	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Thallium-208	**0.883**			0.113	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Thorium-227	0.154	U		2.17	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Thorium-234	**2.88**			2.31	pCi/g		11/22/13 12:38	12/15/13 18:59	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**5.04**		1.00	0.0899	pCi/g		11/22/13 13:48	12/17/13 08:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*121*	*X*	*40 - 110*	*11/22/13 13:48*	*12/17/13 08:47*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.80**		1.00	0.322	pCi/g		11/22/13 14:11	12/11/13 10:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*121*	*X*	*40 - 110*	*11/22/13 14:11*	*12/11/13 10:59*	*1*
Y Carrier	*83.0*		*40 - 110*	*11/22/13 14:11*	*12/11/13 10:59*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**2.87**		1.00	0.0630	pCi/g		12/16/13 13:26	12/30/13 13:50	1
Thorium-230	**5.19**		1.00	0.0387	pCi/g		12/16/13 13:26	12/30/13 13:50	1
Thorium-232	**2.86**		1.00	0.0264	pCi/g		12/16/13 13:26	12/30/13 13:50	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*87.3*		*30 - 110*	*12/16/13 13:26*	*12/30/13 13:50*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**5.35**		1.00	0.0360	pCi/g		12/16/13 13:26	12/26/13 16:15	1
Uranium-235/236	**0.256**		1.00	0.0399	pCi/g		12/16/13 13:26	12/26/13 16:15	1
Uranium-238	**4.98**		1.00	0.0447	pCi/g		12/16/13 13:26	12/26/13 16:15	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*86.1*		*30 - 110*	*12/16/13 13:26*	*12/26/13 16:15*	*1*

Client Sample ID: NS-B-2_SUB
Date Collected: 11/13/13 15:45
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-4
Matrix: Solid
Percent Solids: 93.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8500		100	71	mg/Kg	☼	12/04/13 10:55	12/19/13 20:27	5
Antimony	3.2	U	5.0	3.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Barium	260		25	1.3	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Beryllium	0.85	U	2.5	0.85	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Cadmium	0.50	U	2.5	0.50	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Calcium	27000		1300	67	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Chromium	80		5.0	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Cobalt	8.2	J	25	4.7	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Copper	16		13	3.7	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Iron	11000		50	15	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Lead	15		5.0	0.87	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Magnesium	8300		500	42	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Manganese	370		5.0	0.78	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Nickel	16	J	20	1.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Potassium	1700	J	2500	1700	mg/Kg	☼	12/04/13 10:55	12/19/13 20:27	5
Selenium	1.5	U	7.6	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Silver	1.2	U	5.0	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Sodium	1200		500	240	mg/Kg	☼	12/04/13 10:55	12/19/13 20:27	5
Titanium	810		10	3.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Vanadium	170		25	6.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Zinc	33		25	10	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.9		4.7	1.2	mg/Kg	☼	11/21/13 09:19	12/17/13 02:19	10
Niobium	15		12	1.8	mg/Kg	☼	11/21/13 09:19	12/17/13 02:19	10
Thallium	0.72	U ^	2.4	0.72	mg/Kg	☼	11/21/13 09:19	12/17/13 02:19	10
Uranium	2.5		0.47	0.094	mg/Kg	☼	11/21/13 09:19	12/17/13 02:19	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029	J	0.034	0.011	mg/Kg	☼	11/18/13 14:10	11/24/13 12:22	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	6.8		0.21	0.043	mg/Kg	☼		12/05/13 14:58	1
Sulfate	140		5.4	0.54	mg/Kg	☼		12/05/13 14:58	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		43	4.3	mg/Kg	☼		12/05/13 20:15	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	28.7		10.0	4.64	pCi/g		12/09/13 08:58	12/09/13 20:42	1
Gross Beta	25.1		10.0	2.68	pCi/g		12/09/13 08:58	12/09/13 20:42	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.92			0.210	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Bismuth-212	2.65			0.932	pCi/g		11/22/13 12:38	12/13/13 15:38	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: NS-B-2_SUB
Date Collected: 11/13/13 15:45
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-4
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth-214	**1.44**			0.167	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Bismuth-210M	0.0144	U		0.164	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Cesium-134	0.0366	U		0.163	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Cesium-137	0.00234	U		0.105	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Cobalt-57	0.0175	U		0.0861	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Cobalt-60	0.000	U		0.312	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Lead-212	**2.01**			0.212	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Lead-214	**1.54**			0.266	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Potassium-40	**20.7**			1.46	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Protactinium-231	1.56	U		4.47	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Protactinium-234	0.203	U		0.285	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Radium-224	2.07	U		3.13	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Thallium-208	**0.599**			0.138	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Thorium-227	0.234	U		0.732	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Thorium-234	0.921	U		3.70	pCi/g		11/22/13 12:38	12/13/13 15:38	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**1.35**		1.00	0.101	pCi/g		11/22/13 13:48	12/17/13 08:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*111*	*X*	*40 - 110*	*11/22/13 13:48*	*12/17/13 08:47*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**0.894**		1.00	0.359	pCi/g		11/22/13 14:11	12/11/13 10:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*111*	*X*	*40 - 110*	*11/22/13 14:11*	*12/11/13 10:59*	*1*
Y Carrier	*81.9*		*40 - 110*	*11/22/13 14:11*	*12/11/13 10:59*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.52**		1.00	0.0434	pCi/g		12/16/13 13:26	12/24/13 17:35	1
Thorium-230	**1.41**		1.00	0.0355	pCi/g		12/16/13 13:26	12/24/13 17:35	1
Thorium-232	**1.44**		1.00	0.0353	pCi/g		12/16/13 13:26	12/24/13 17:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*78.5*		*30 - 110*	*12/16/13 13:26*	*12/24/13 17:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.54**		1.00	0.0381	pCi/g		12/16/13 13:26	12/26/13 16:15	1
Uranium-235/236	**0.0707**		1.00	0.0177	pCi/g		12/16/13 13:26	12/26/13 16:15	1
Uranium-238	**1.31**		1.00	0.0349	pCi/g		12/16/13 13:26	12/26/13 16:15	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*82.8*		*30 - 110*	*12/16/13 13:26*	*12/26/13 16:15*	*1*

Client Sample ID: NS-B-1_SS
Date Collected: 11/13/13 09:45
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-5
Matrix: Solid
Percent Solids: 97.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4600		95	66	mg/Kg	☼	12/04/13 10:55	12/19/13 20:31	5
Antimony	3.0	U	4.7	3.0	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Barium	1300		24	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Beryllium	0.80	U	2.4	0.80	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Cadmium	0.47	U	2.4	0.47	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Calcium	27000		1200	63	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Chromium	9.0		4.7	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Cobalt	8.3	J	24	4.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Copper	43		12	3.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Iron	11000		47	14	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Lead	27		4.7	0.82	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Magnesium	7000		470	39	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Manganese	420		4.7	0.73	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Nickel	7.8	J	19	1.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Potassium	1600	U	2400	1600	mg/Kg	☼	12/04/13 10:55	12/19/13 20:31	5
Selenium	1.4	U	7.1	1.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Silver	1.1	U	4.7	1.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Sodium	510		470	220	mg/Kg	☼	12/04/13 10:55	12/19/13 20:31	5
Titanium	520		9.5	3.0	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Vanadium	23	J	24	6.0	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Zinc	52		24	9.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		4.9	1.3	mg/Kg	☼	11/21/13 09:19	12/17/13 02:39	10
Niobium	2.4	J	12	1.8	mg/Kg	☼	11/21/13 09:19	12/17/13 02:39	10
Thallium	0.74	U ^	2.4	0.74	mg/Kg	☼	11/21/13 09:19	12/17/13 02:39	10
Uranium	2.2		0.49	0.097	mg/Kg	☼	11/21/13 09:19	12/17/13 02:39	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.033	0.011	mg/Kg	☼	11/18/13 14:10	11/24/13 12:23	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	140		10	2.0	mg/Kg	☼		12/05/13 20:30	50
Sulfate	330		260	26	mg/Kg	☼		12/05/13 20:30	50

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6700		1000	100	mg/Kg	☼		12/05/13 20:44	500

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	31.3		10.0	5.46	pCi/g		12/09/13 08:58	12/09/13 20:42	1
Gross Beta	38.5		10.0	2.71	pCi/g		12/09/13 08:58	12/09/13 20:42	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.78			0.230	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Bismuth-212	2.14			0.832	pCi/g		11/22/13 12:38	12/13/13 17:36	1

Client Sample ID: NS-B-1_SS
Date Collected: 11/13/13 09:45
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-5
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth-214	**1.04**			0.141	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Bismuth-210M	-0.0422	U		0.132	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cesium-134	-0.0612	U		0.109	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cesium-137	-0.0106	U		0.0920	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cobalt-57	-0.0175	U		0.0685	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cobalt-60	0.0130	U		0.0861	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Lead-212	**1.80**			0.132	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Lead-214	**1.24**			0.180	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Potassium-40	**35.3**			0.627	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Protactinium-231	0.862	U		2.55	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Protactinium-234	0.0279	U		0.340	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Radium-224	2.07	U		2.22	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Thallium-208	**0.684**			0.0834	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Thorium-227	**0.593**			0.177	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Thorium-234	**2.22**			2.16	pCi/g		11/22/13 12:38	12/13/13 17:36	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**1.12**		1.00	0.0796	pCi/g		11/22/13 13:48	12/17/13 08:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*115*	*X*	*40 - 110*	*11/22/13 13:48*	*12/17/13 08:47*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.85**		1.00	0.315	pCi/g		11/22/13 14:11	12/11/13 10:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*115*	*X*	*40 - 110*	*11/22/13 14:11*	*12/11/13 10:59*	*1*
Y Carrier	*84.9*		*40 - 110*	*11/22/13 14:11*	*12/11/13 10:59*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**2.09**		1.00	0.0727	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-230	**1.38**		1.00	0.116	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-232	**1.61**		1.00	0.105	pCi/g		12/16/13 15:38	12/27/13 20:53	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*79.3*		*30 - 110*	*12/16/13 15:38*	*12/27/13 20:53*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.863**		1.00	0.131	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-235/236	0.0359	U	1.00	0.0949	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-238	**0.818**		1.00	0.0943	pCi/g		12/16/13 15:38	12/26/13 16:51	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*86.1*		*30 - 110*	*12/16/13 15:38*	*12/26/13 16:51*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: NS-B-1_SUB
Date Collected: 11/13/13 11:20
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-6
Matrix: Solid
Percent Solids: 95.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7100		97	68	mg/Kg	☼	12/04/13 10:55	12/19/13 20:35	5
Antimony	3.1	U	4.8	3.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Barium	150		24	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Beryllium	0.82	U	2.4	0.82	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Cadmium	0.48	U	2.4	0.48	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Calcium	29000		1200	64	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Chromium	12		4.8	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Cobalt	8.4	J	24	4.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Copper	13		12	3.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Iron	11000		48	14	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Lead	8.0		4.8	0.83	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Magnesium	8500		480	40	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Manganese	250		4.8	0.74	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Nickel	14	J	19	1.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Potassium	1600	U	2400	1600	mg/Kg	☼	12/04/13 10:55	12/19/13 20:35	5
Selenium	1.4	U	7.2	1.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Silver	1.1	U	4.8	1.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Sodium	760		480	230	mg/Kg	☼	12/04/13 10:55	12/19/13 20:35	5
Titanium	570		9.7	3.0	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Vanadium	27		24	6.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Zinc	29		24	9.6	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		5.0	1.3	mg/Kg	☼	11/21/13 09:19	12/17/13 02:46	10
Niobium	1.9	U	12	1.9	mg/Kg	☼	11/21/13 09:19	12/17/13 02:46	10
Thallium	0.76	U ^	2.5	0.76	mg/Kg	☼	11/21/13 09:19	12/17/13 02:46	10
Uranium	1.7		0.50	0.099	mg/Kg	☼	11/21/13 09:19	12/17/13 02:46	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.034	0.011	mg/Kg	☼	11/18/13 14:10	11/24/13 12:25	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	160		5.2	0.52	mg/Kg	☼		12/05/13 15:27	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	25		1.0	0.21	mg/Kg	☼		12/05/13 20:59	5

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	690		100	10	mg/Kg	☼		12/05/13 21:13	50

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	23.0		10.0	5.28	pCi/g		12/09/13 08:58	12/10/13 06:30	1
Gross Beta	29.2		10.0	2.80	pCi/g		12/09/13 08:58	12/10/13 06:30	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: NS-B-1_SUB
Date Collected: 11/13/13 11:20
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-6
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.93			0.205	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Bismuth-212	2.83			0.758	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Bismuth-214	1.43			0.178	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Bismuth-210M	0.0292	U		0.130	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cesium-134	0.0510	U		0.246	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cesium-137	0.00207	U		0.100	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cobalt-57	0.0106	U		0.0684	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cobalt-60	-0.00450	U		0.0981	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Lead-212	1.44			0.202	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Lead-214	1.17			0.181	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Potassium-40	22.4			0.812	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Protactinium-231	1.37	U		2.02	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Protactinium-234	-0.0109	U		0.379	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Radium-224	2.09	U		2.49	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Thallium-208	0.590			0.0906	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Thorium-227	-0.477	U		0.844	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Thorium-234	0.641	U		2.66	pCi/g		11/22/13 12:38	12/13/13 17:36	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	1.28		1.00	0.0678	pCi/g		11/22/13 13:48	12/17/13 08:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*40 - 110*	*11/22/13 13:48*	*12/17/13 08:47*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.10		1.00	0.325	pCi/g		11/22/13 14:11	12/11/13 11:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*40 - 110*	*11/22/13 14:11*	*12/11/13 11:00*	*1*
Y Carrier	*80.4*		*40 - 110*	*11/22/13 14:11*	*12/11/13 11:00*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	2.04		1.00	0.0813	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-230	1.06		1.00	0.121	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-232	1.53		1.00	0.103	pCi/g		12/16/13 15:38	12/27/13 20:53	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*80.6*		*30 - 110*	*12/16/13 15:38*	*12/27/13 20:53*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	1.33		1.00	0.0838	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-235/236	0.0568	U	1.00	0.0728	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-238	0.981		1.00	0.0883	pCi/g		12/16/13 15:38	12/26/13 16:51	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*89.9*		*30 - 110*	*12/16/13 15:38*	*12/26/13 16:51*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: RINSATE
Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-7
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	26	J B	190	1.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-2	3.8	J q B	190	1.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-3	6.5	J q B	190	1.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-4	47	U	190	47	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-5	31	U	190	31	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-6	31	U	190	31	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-7	29	U	190	29	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-8	30	U	190	30	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-9	32	U	190	32	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-10	32	U	190	32	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-11	32	U	190	32	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-12/13	32	U	380	32	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-14	27	U	190	27	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-15	35	U	190	35	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-16	5.5	U	190	5.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-17	3.9	U	190	3.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-18/30	15	J B	380	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-19	4.2	U	190	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-20/28	14	J B	380	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-21/33	12	J q B	380	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-22	7.9	J q B	190	3.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-23	3.3	U	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-24	2.8	U	190	2.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-25	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-26/29	3.5	U	380	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-27	2.9	U	190	2.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-31	18	J B	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-32	2.2	U	190	2.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-34	3.5	U	190	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-35	4.0	U	190	4.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-36	3.5	U	190	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-37	7.7	J q B	190	4.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-38	3.8	U	190	3.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-39	3.5	U	190	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-40/71	13	J q B	380	2.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-41	3.7	J q	190	2.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-42	5.5	J q	190	2.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-43	2.3	U	190	2.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-44/47/65	13	J q B	570	1.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-45	2.2	U	190	2.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-46	2.4	U	190	2.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-48	4.3	J q	190	2.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-49/69	8.1	J q B	380	1.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-50/53	3.4	U	380	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-51	1.9	U	190	1.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-52	33	J B	190	2.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-54	2.0	U	190	2.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-55	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-56	3.7	U	190	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: RINSATE
Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-7
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	3.3	U	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-58	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-59/62/75	**3.2**	**J**	570	1.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-60	3.5	U	190	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-61/70/74/76	**21**	**J q B**	760	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-63	3.1	U	190	3.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-64	**7.8**	**J B**	190	1.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-66	**12**	**J q B**	190	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-67	3.1	U	190	3.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-68	3.0	U	190	3.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-72	3.2	U	190	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-73	1.6	U	190	1.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-77	4.8	U	19	4.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-78	3.8	U	190	3.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-79	3.3	U	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-80	3.1	U	190	3.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-81	4.6	U	19	4.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-82	4.8	U	190	4.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-83	5.2	U	190	5.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-84	**6.7**	**J**	190	4.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-85/116/117	**6.1**	**J q**	570	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-86/87/97/108/119/125	**13**	**J**	1100	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-88/91	3.6	U	380	3.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-89	4.1	U	190	4.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-90/101/113	**20**	**J B**	570	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-92	3.9	U	190	3.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-93/100	3.7	U	380	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-107/124	3.0	U	380	3.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-94	3.9	U	190	3.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-95	**19**	**J q B**	190	3.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-96	2.6	U	190	2.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-98/102	3.4	U	380	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-99	**6.3**	**J q**	190	3.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-103	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-104	2.4	U	190	2.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-105	**6.2**	**J B**	19	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-106	3.3	U	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-110/115	**23**	**J B**	380	2.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-109	2.8	U	190	2.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-111	2.7	U	190	2.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-112	2.6	U	190	2.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-114	3.3	U	19	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-115	**23**	**J B**	380	2.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-118	**12**	**J B**	19	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-120	2.8	U	190	2.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-121	2.7	U	190	2.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-122	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-123	3.2	U	19	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-126	4.0	U	19	4.0	pg/L		12/12/13 14:53	12/20/13 13:47	1

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TestAmerica Job ID: 680-96214-1

Client Sample ID: RINSATE
Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-7
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-127	3.3	U	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-128/166	4.1	U	380	4.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-129/138/163	**16**	**J B**	570	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-130	5.4	U	190	5.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-131	5.1	U	190	5.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-132	4.8	U	190	4.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-133	4.8	U	190	4.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-134/143	4.9	U	380	4.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-135/151	4.3	U	380	4.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-136	3.1	U	190	3.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-137	4.2	U	190	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-139/140	4.1	U	380	4.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-141	4.5	U	190	4.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-142	4.7	U	190	4.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-144	4.2	U	190	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-145	3.0	U	190	3.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-146	4.5	U	190	4.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-147/149	**13**	**J B**	380	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-148	4.2	U	190	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-150	2.8	U	190	2.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-152	2.9	U	190	2.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-153/168	**11**	**J q B**	380	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-154	3.7	U	190	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-155	2.9	U	190	2.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-156/157	4.2	U	38	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-158	3.2	U	190	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-159	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-160	3.7	U	190	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-161	3.2	U	190	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-162	3.3	U	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-164	3.6	U	190	3.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-165	3.7	U	190	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-167	3.3	U	19	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-169	4.4	U	19	4.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-170	3.2	U	190	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-171/173	3.0	U	380	3.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-172	3.6	U	190	3.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-174	5.5	U	190	5.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-175	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-176	**2.6**	**J q**	190	2.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-177	3.0	U	190	3.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-178	3.5	U	190	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-179	2.5	U	190	2.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-180/193	6.2	U	380	6.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-181	2.5	U	190	2.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-182	3.1	U	190	3.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-183	7.4	U	190	7.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-184	**4.5**	**J q**	190	2.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-185	2.7	U	190	2.7	pg/L		12/12/13 14:53	12/20/13 13:47	1

Client: GEI Consultants, Inc.
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TestAmerica Job ID: 680-96214-1

Client Sample ID: RINSATE
Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-7
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-186	2.4	U	190	2.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-187	**5.3**	**J q**	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-188	**3.9**	**J q**	190	2.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-189	6.6	U	19	6.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-190	2.6	U	190	2.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-191	2.2	U	190	2.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-192	5.9	U	190	5.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-194	4.9	U	190	4.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-195	4.6	U	190	4.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-196	**13**	**J q**	190	3.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-197	**18**	**J**	190	2.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-198/199	**19**	**J**	380	4.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-200	2.7	U	190	2.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-201	**16**	**J**	190	2.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-202	2.9	U	190	2.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-203	**5.8**	**J q**	190	3.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-204	**7.7**	**J**	190	2.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-205	**6.6**	**J q**	190	3.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-206	**41**	**J q**	190	5.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-207	**69**	**J**	190	3.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-208	**40**	**J q**	190	4.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-209	**650**		190	4.3	pg/L		12/12/13 14:53	12/20/13 13:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*48*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-3L	*53*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-4L	*60*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-15L	*63*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-19L	*67*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-37L	*62*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-54L	*62*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-77L	*66*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-81L	*64*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-104L	*58*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-105L	*69*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-114L	*69*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-118L	*69*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-123L	*70*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-126L	*70*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-155L	*63*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-156L/157L	*72*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-167L	*70*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-169L	*72*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-188L	*81*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-189L	*72*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-202L	*86*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-205L	*77*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-206L	*85*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-208L	*86*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-209L	*82*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*

Client Sample ID: RINSATE
Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	84		5 - 145	12/12/13 14:53	12/20/13 13:47	1
PCB-111L	90		10 - 145	12/12/13 14:53	12/20/13 13:47	1
PCB-178L	103		10 - 145	12/12/13 14:53	12/20/13 13:47	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	6.0	U	10	6.0	ug/L		12/16/13 17:03	12/18/13 18:24	1
Aluminum	80	U *	200	80	ug/L		12/16/13 17:03	12/18/13 18:24	1
Barium	4.0	U	50	4.0	ug/L		12/16/13 17:03	12/18/13 18:24	1
Beryllium	0.61	U	5.0	0.61	ug/L		12/16/13 17:03	12/18/13 18:24	1
Calcium	110	U	1000	110	ug/L		12/16/13 17:03	12/18/13 18:24	1
Cadmium	0.91	U	5.0	0.91	ug/L		12/16/13 17:03	12/18/13 18:24	1
Cobalt	4.9	U	50	4.9	ug/L		12/16/13 17:03	12/18/13 18:24	1
Chromium	3.1	U	10	3.1	ug/L		12/16/13 17:03	12/18/13 18:24	1
Copper	4.6	U	25	4.6	ug/L		12/16/13 17:03	12/18/13 18:24	1
Iron	28	U	100	28	ug/L		12/16/13 17:03	12/18/13 18:24	1
Potassium	1700	U *	5000	1700	ug/L		12/16/13 17:03	12/18/13 18:24	1
Magnesium	130	U	1000	130	ug/L		12/16/13 17:03	12/18/13 18:24	1
Manganese	3.3	U	15	3.3	ug/L		12/16/13 17:03	12/18/13 18:24	1
Sodium	320	U *	1000	320	ug/L		12/16/13 17:03	12/18/13 18:24	1
Nickel	13	U	40	13	ug/L		12/16/13 17:03	12/18/13 18:24	1
Lead	1.5	U	10	1.5	ug/L		12/16/13 17:03	12/18/13 18:24	1
Antimony	4.0	U	10	4.0	ug/L		12/16/13 17:03	12/18/13 18:24	1
Selenium	2.7	U	15	2.7	ug/L		12/16/13 17:03	12/18/13 18:24	1
Titanium	2.4	U	20	2.4	ug/L		12/16/13 17:03	12/18/13 18:24	1
Vanadium	4.1	U	50	4.1	ug/L		12/16/13 17:03	12/18/13 18:24	1
Zinc	**10**	**J B**	20	5.2	ug/L		12/16/13 17:03	12/18/13 18:24	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		12/16/13 17:01	12/20/13 04:13	1
Niobium	2.2	U	25	2.2	ug/L		12/16/13 17:01	12/20/13 04:13	1
Thallium	0.55	U	2.0	0.55	ug/L		12/16/13 17:01	12/20/13 04:13	1
Uranium	0.23	U	1.0	0.23	ug/L		12/16/13 17:01	12/20/13 04:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		11/19/13 11:20	11/19/13 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.0098**	**J H**	0.020	0.0040	mg/L			11/15/13 17:04	1
Chloride	0.020	U	0.20	0.020	mg/L			11/15/13 17:04	1
Sulfate	0.050	U	0.50	0.050	mg/L			11/15/13 17:04	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	0.543	U	3.00	1.28	pCi/L		12/16/13 10:37	12/20/13 17:20	1
Gross Beta	0.240	U	4.00	0.865	pCi/L		12/16/13 10:37	12/20/13 17:20	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: RINSATE
Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-7
Matrix: Water

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	7.27	U		45.5	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Bismuth-214	-9.67	U		30.5	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Bismuth-212	8.78	U		126	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Bismuth-210M	-3.39	U		15.5	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Cesium-134	2.75	U		12.3	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Cesium-137	1.14	U		10.2	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Cobalt-57	1.09	U		6.73	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Cobalt-60	0.897	U		16.1	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Lead-212	5.28	U		17.3	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Lead-214	-0.174	U		27.6	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Potassium-40	-29.3	U		171	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Protactinium-231	-21.2	U		256	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Protactinium-234	-0.285	U		35.0	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Radium-224	3.22	U		204	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Thallium-208	3.43	U		14.0	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Thorium-234	-8.20	U		188	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Thorium-227	12.2	U		71.4	pCi/L		11/18/13 17:52	12/09/13 19:19	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.0280	U	1.00	0.109	pCi/L		11/18/13 13:48	12/10/13 06:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*11/18/13 13:48*	*12/10/13 06:36*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.149	U	1.00	0.332	pCi/L		11/18/13 13:55	12/04/13 11:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*11/18/13 13:55*	*12/04/13 11:07*	*1*
Y Carrier	*90.1*		*40 - 110*	*11/18/13 13:55*	*12/04/13 11:07*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.0181	U	1.00	0.144	pCi/L		12/18/13 08:38	12/26/13 17:00	1
Thorium-230	**0.187**		1.00	0.172	pCi/L		12/18/13 08:38	12/26/13 17:00	1
Thorium-232	0.00917	U	1.00	0.119	pCi/L		12/18/13 08:38	12/26/13 17:00	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*92.2*		*30 - 110*	*12/18/13 08:38*	*12/26/13 17:00*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
U-238	-0.00418	U	1.00	0.102	pCi/L		12/18/13 08:38	12/26/13 17:02	1
Uranium-235/236	-0.00522	U	1.00	0.127	pCi/L		12/18/13 08:38	12/26/13 17:02	1
Uranium-233/234	0.0405	U	1.00	0.102	pCi/L		12/18/13 08:38	12/26/13 17:02	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*81.3*		*30 - 110*	*12/18/13 08:38*	*12/26/13 17:02*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	11.0	J	200	1.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-2	7.99	J	200	1.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-3	7.79	J	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-4	64	U	200	64	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-5	40	U	200	40	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-6	41	U	200	41	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-7	38	U	200	38	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-8	40	U	200	40	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-9	43	U	200	43	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-10	44	U	200	44	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-11	42	U	200	42	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-12/13	42	U	400	42	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-14	35	U	200	35	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-15	46	U	200	46	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-16	6.7	U	200	6.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-17	4.7	U	200	4.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-18/30	8.03	J q	400	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-19	4.8	U	200	4.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-20/28	13.5	J q	400	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-21/33	9.26	J q	400	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-22	6.38	J q	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-23	2.3	U	200	2.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-24	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-25	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-26/29	2.4	U	400	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-27	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-31	13.6	J q	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-32	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-34	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-35	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-36	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-37	6.98	J q	200	3.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-38	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-39	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-40/71	6.48	J q	400	2.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-41	3.1	U	200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-42	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-43	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-44/47/65	19.1	J	600	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-45	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-46	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-48	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-49/69	7.31	J	400	2.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-50/53	2.2	U	400	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-51	2.2	U	200	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-52	19.3	J	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-54	2.1	U	200	2.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-55	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-56	8.01	J q	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-57	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-58	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-59/62/75	1.7	U	600	1.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-60	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-61/70/74/76	22.2	J	800	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-63	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-64	5.19	J q	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-66	9.04	J q	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-67	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-68	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-72	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-73	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-77	4.4	U	20	4.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-78	3.0	U	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-79	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-80	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-81	4.1	U	20	4.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-82	4.6	U	200	4.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-83	5.0	U	200	5.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-84	4.1	U	200	4.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-85/116/117	3.1	U	600	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-86/87/97/108/119/125	3.1	U	1200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-88/91	3.5	U	400	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-89	3.9	U	200	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-90/101/113	8.22	J	600	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-92	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-93/100	3.5	U	400	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-107/124	2.9	U	400	2.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-94	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-95	6.54	J q	200	3.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-96	1.7	U	200	1.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-98/102	3.3	U	400	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-99	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-103	3.2	U	200	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-104	1.5	U	200	1.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-105	6.51	J q	20	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-106	3.1	U	200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-110/115	7.16	J q	400	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-109	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-111	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-112	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-114	3.3	U	20	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-115	7.16	J q	400	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-118	8.60	J	20	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-120	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-121	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-122	3.2	U	200	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-123	3.2	U	20	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-126	4.4	U	20	4.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-127	3.1	U	200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-128/166	3.8	U	400	3.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-129/138/163	5.66	J q	600	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-130	5.0	U	200	5.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-131	4.8	U	200	4.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-132	4.5	U	200	4.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-133	4.5	U	200	4.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-134/143	4.5	U	400	4.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-135/151	4.0	U	400	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-136	2.9	U	200	2.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-137	4.0	U	200	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-139/140	3.8	U	400	3.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-141	4.2	U	200	4.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-142	4.4	U	200	4.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-144	4.0	U	200	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-145	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-146	4.2	U	200	4.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-147/149	6.50	J q	400	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-148	3.9	U	200	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-150	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-152	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-153/168	5.81	J q	400	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-154	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-155	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-156/157	3.6	U	40	3.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-158	3.0	U	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-159	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-160	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-161	3.0	U	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-162	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-164	3.3	U	200	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-165	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-167	2.7	U	20	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-169	3.9	U	20	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-170	2.3	U	200	2.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-171/173	2.1	U	400	2.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-172	2.2	U	200	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-174	3.1	U	200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-175	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-176	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-177	2.2	U	200	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-178	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-179	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-180/193	1.8	U	400	1.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-181	1.8	U	200	1.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-182	3.3	U	200	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-183	1.6	U	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-184	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-185	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-186	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-187	3.4	U	200	3.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-188	2.3	U	200	2.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-189	5.0	U	20	5.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-190	1.6	U	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-191	1.6	U	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-192	1.6	U	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-194	4.0	U	200	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-195	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-196	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-197	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-198/199	2.9	U	400	2.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-200	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-201	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-202	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-203	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-204	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-205	3.3	U	200	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-206	3.9	U	200	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-207	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-208	3.2	U	200	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-209	2.9	U	200	2.9	pg/L		12/12/13 14:53	12/19/13 18:45	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*69*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-15L	*74*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-123L	*73*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-114L	*73*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-3L	*60*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-118L	*74*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-126L	*69*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-202L	*107*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-169L	*70*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-206L	*95*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-37L	*65*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-19L	*90*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-188L	*102*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-54L	*79*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-156L/157L	*73*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-167L	*75*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-209L	*95*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-189L	*81*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-105L	*73*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-208L	*100*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-1L	*53*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-104L	71		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-81L	64		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-77L	64		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-205L	85		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-155L	73		10 - 145	12/12/13 14:53	12/19/13 18:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	77		5 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-111L	89		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-178L	107		10 - 145	12/12/13 14:53	12/19/13 18:45	1

Lab Sample ID: LCS 320-31731/2-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	2000	2120		pg/L		106	60 - 135
PCB-3	2000	2100		pg/L		105	60 - 135
PCB-4	2000	1970		pg/L		99	60 - 135
PCB-15	2000	2040		pg/L		102	60 - 135
PCB-19	2000	1810		pg/L		91	60 - 135
PCB-37	2000	2030		pg/L		102	60 - 135
PCB-54	2000	1780		pg/L		89	60 - 135
PCB-77	2000	1980		pg/L		99	60 - 135
PCB-81	2000	2060		pg/L		103	60 - 135
PCB-104	2000	2110		pg/L		105	60 - 135
PCB-105	2000	2010		pg/L		100	60 - 135
PCB-114	2000	1940		pg/L		97	60 - 135
PCB-118	2000	2010		pg/L		100	60 - 135
PCB-123	2000	1940		pg/L		97	60 - 135
PCB-126	2000	1930		pg/L		97	60 - 135
PCB-155	2000	2130		pg/L		106	60 - 135
PCB-156/157	4000	4050		pg/L		101	60 - 135
PCB-167	2000	2000		pg/L		100	60 - 135
PCB-169	2000	2020	G	pg/L		101	60 - 135
PCB-188	2000	2050		pg/L		103	60 - 135
PCB-189	2000	2000		pg/L		100	60 - 135
PCB-202	2000	2060		pg/L		103	60 - 135
PCB-205	2000	1990		pg/L		99	60 - 135
PCB-206	2000	1990		pg/L		100	60 - 135
PCB-208	2000	1940		pg/L		97	60 - 135
PCB-209	2000	2060		pg/L		103	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-4L	58		15 - 145
PCB-15L	66		15 - 145
PCB-123L	76		40 - 145
PCB-114L	76		40 - 145

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-31731/2-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31731

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-3L	51		15 - 145
PCB-118L	77		40 - 145
PCB-126L	75		40 - 145
PCB-202L	99		40 - 145
PCB-169L	75		40 - 145
PCB-206L	95		40 - 145
PCB-37L	63		15 - 145
PCB-19L	73		15 - 145
PCB-188L	95		40 - 145
PCB-54L	71		15 - 145
PCB-156L/157L	74		40 - 145
PCB-167L	74		40 - 145
PCB-209L	96		40 - 145
PCB-189L	79		40 - 145
PCB-105L	76		40 - 145
PCB-208L	100		40 - 145
PCB-1L	43		15 - 145
PCB-104L	69		40 - 145
PCB-81L	69		40 - 145
PCB-77L	71		40 - 145
PCB-205L	87		40 - 145
PCB-155L	73		40 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
PCB-28L	72		5 - 145
PCB-111L	88		10 - 145
PCB-178L	102		10 - 145

Lab Sample ID: LCSD 320-31731/3-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31731

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1			2000	2110		pg/L		106	60 - 135	0	50
PCB-3			2000	2160		pg/L		108	60 - 135	3	50
PCB-4			2000	1980		pg/L		99	60 - 135	0	50
PCB-15			2000	1970		pg/L		98	60 - 135	3	50
PCB-19			2000	1840		pg/L		92	60 - 135	2	50
PCB-37			2000	2010		pg/L		100	60 - 135	1	50
PCB-54			2000	1810		pg/L		91	60 - 135	2	50
PCB-77			2000	2050		pg/L		102	60 - 135	3	50
PCB-81			2000	2050		pg/L		103	60 - 135	0	50
PCB-104			2000	2100		pg/L		105	60 - 135	1	50
PCB-105			2000	2000		pg/L		100	60 - 135	0	50
PCB-114			2000	1940		pg/L		97	60 - 135	0	50
PCB-118			2000	2070		pg/L		103	60 - 135	3	50
PCB-123			2000	1960		pg/L		98	60 - 135	1	50
PCB-126			2000	1900		pg/L		95	60 - 135	2	50

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-31731/3-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31731

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-155			2000	2110		pg/L		106	60 - 135	1	50
PCB-156/157			4000	4100		pg/L		102	60 - 135	1	50
PCB-167			2000	2010		pg/L		100	60 - 135	0	50
PCB-169			2000	2080	G	pg/L		104	60 - 135	3	50
PCB-188			2000	2060		pg/L		103	60 - 135	0	50
PCB-189			2000	2010		pg/L		101	60 - 135	1	50
PCB-202			2000	2080		pg/L		104	60 - 135	1	50
PCB-205			2000	2000		pg/L		100	60 - 135	0	50
PCB-206			2000	2010		pg/L		100	60 - 135	1	50
PCB-208			2000	1980		pg/L		99	60 - 135	2	50
PCB-209			2000	2100		pg/L		105	60 - 135	2	50

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
PCB-4L	*68*		*15 - 145*
PCB-15L	*74*		*15 - 145*
PCB-123L	*76*		*40 - 145*
PCB-114L	*76*		*40 - 145*
PCB-3L	*57*		*15 - 145*
PCB-118L	*76*		*40 - 145*
PCB-126L	*75*		*40 - 145*
PCB-202L	*99*		*40 - 145*
PCB-169L	*71*		*40 - 145*
PCB-206L	*91*		*40 - 145*
PCB-37L	*67*		*15 - 145*
PCB-19L	*82*		*15 - 145*
PCB-188L	*97*		*40 - 145*
PCB-54L	*79*		*15 - 145*
PCB-156L/157L	*72*		*40 - 145*
PCB-167L	*72*		*40 - 145*
PCB-209L	*91*		*40 - 145*
PCB-189L	*76*		*40 - 145*
PCB-105L	*75*		*40 - 145*
PCB-208L	*95*		*40 - 145*
PCB-1L	*51*		*15 - 145*
PCB-104L	*73*		*40 - 145*
PCB-81L	*68*		*40 - 145*
PCB-77L	*69*		*40 - 145*
PCB-205L	*84*		*40 - 145*
PCB-155L	*75*		*40 - 145*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
PCB-28L	*76*		*5 - 145*
PCB-111L	*87*		*10 - 145*
PCB-178L	*102*		*10 - 145*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	3.74	J	20	0.32	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-2	0.30	U	20	0.30	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-3	0.665	J q	20	0.28	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-4	7.2	U	20	7.2	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-5	4.7	U	20	4.7	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-6	4.8	U	20	4.8	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-7	4.4	U	20	4.4	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-8	4.6	U	20	4.6	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-9	5.0	U	20	5.0	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-10	3.7	U	20	3.7	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-11	5.35	J	20	4.9	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-12/13	5.0	U	40	5.0	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-14	4.1	U	20	4.1	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-15	4.5	U	20	4.5	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-16	1.9	U	20	1.9	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-17	1.4	U	20	1.4	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-18/30	1.2	U	40	1.2	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-19	1.7	U	20	1.7	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-20/28	0.951	J q	40	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-21/33	0.373	J q	40	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-22	0.25	U	20	0.25	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-23	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-24	1.0	U	20	1.0	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-25	0.22	U	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-26/29	0.22	U	40	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-27	1.0	U	20	1.0	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-31	0.898	J	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-32	0.79	U	20	0.79	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-34	0.22	U	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-35	0.26	U	20	0.26	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-36	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-37	0.27	U	20	0.27	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-38	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-39	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-40/71	0.21	U	40	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-41	0.27	U	20	0.27	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-42	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-43	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-44/47/65	1.74	J	60	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-45	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-46	0.25	U	20	0.25	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-48	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-49/69	0.252	J q	40	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-50/53	0.19	U	40	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-51	0.19	U	20	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-52	1.16	J	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-54	0.53	U	20	0.53	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-55	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-56	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-57	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-58	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-59/62/75	0.15	U	60	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-60	0.22	U	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-61/70/74/76	0.915	J	80	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-63	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-64	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-66	0.572	J	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-67	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-68	0.19	U	20	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-72	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-73	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-77	0.24	U	2.0	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-78	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-79	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-80	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-81	0.23	U	2.0	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-82	0.29	U	20	0.29	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-83	0.32	U	20	0.32	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-84	0.27	U	20	0.27	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-85/116/117	0.20	U	60	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-86/87/97/108/119/125	0.20	U	120	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-88/91	0.22	U	40	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-89	0.25	U	20	0.25	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-90/101/113	0.605	J	60	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-92	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-93/100	0.23	U	40	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-107/124	0.19	U	40	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-94	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-95	0.517	J	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-96	0.090	U	20	0.090	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-98/102	0.21	U	40	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-99	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-103	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-104	0.11	U	20	0.11	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-105	0.21	U	2.0	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-106	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-110/115	0.719	J q	40	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-109	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-111	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-112	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-114	0.19	U	2.0	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-118	0.529	J q	2.0	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-120	0.18	U	20	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-121	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-122	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-123	0.19	U	2.0	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-126	0.23	U	2.0	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-127	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-128/166	0.13	U	40	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-129/138/163	0.523	J	60	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-130	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-131	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-132	0.183	J q	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-133	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-134/143	0.15	U	40	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-135/151	0.14	U	40	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-136	0.099	U	20	0.099	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-137	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-139/140	0.13	U	40	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-141	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-142	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-144	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-145	0.096	U	20	0.096	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-146	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-147/149	0.470	J	40	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-148	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-150	0.090	U	20	0.090	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-152	0.092	U	20	0.092	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-153/168	0.363	J q	40	0.11	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-154	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-155	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-156/157	0.16	U	4.0	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-158	0.10	U	20	0.10	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-159	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-160	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-161	0.10	U	20	0.10	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-162	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-164	0.11	U	20	0.11	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-165	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-167	0.13	U	2.0	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-169	0.16	U	2.0	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-170	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-171/173	0.16	U	40	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-172	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-174	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-175	0.18	U	20	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-176	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-177	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-178	0.19	U	20	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-179	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-180/193	0.249	J q	40	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-181	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-182	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-183	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-184	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-185	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-186	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-187	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-188	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-189	0.20	U	2.0	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-190	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-191	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-192	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-194	0.18	U	20	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-195	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-196	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-197	0.092	U	20	0.092	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-198/199	0.14	U	40	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-200	0.093	U	20	0.093	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-201	0.092	U	20	0.092	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-202	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-203	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-204	0.096	U	20	0.096	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-205	0.11	U	20	0.11	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-206	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-207	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-208	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-209	1.26	J q	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Monochlorobiphenyls	4.41	J q	200	0.30	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Dichlorobiphenyls	5.35	J	200	4.8	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Trichlorobiphenyls	2.22	J q	200	0.60	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Tetrachlorobiphenyls	4.64	J q	200	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Pentachlorobiphenyls	2.37	J q	200	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Hexachlorobiphenyls	1.54	J q	200	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Heptachlorobiphenyls	0.249	J q	200	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Octachlorobiphenyls	0.18	U	200	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Nonachlorobiphenyls	0.17	U	200	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
Polychlorinated biphenyls, Total	22.0	J q	200	0.69	pg/g		12/21/13 12:08	12/31/13 19:06	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*32*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-15L	*48*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-123L	*56*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-114L	*56*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-3L	*39*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-118L	*58*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-126L	*60*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-202L	*51*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-169L	*85*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-206L	*68*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-37L	*56*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-19L	*36*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-188L	39		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-54L	32		5 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-156L/157L	82		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-167L	78		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-209L	60		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-189L	71		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-105L	57		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-208L	67		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-1L	30		5 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-104L	36		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-81L	60		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-77L	61		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-205L	75		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-155L	48		10 - 145	12/21/13 12:08	12/31/13 19:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	55		5 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-111L	56		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-178L	56		10 - 145	12/21/13 12:08	12/31/13 19:06	1

Lab Sample ID: LCS 320-32403/2-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	204		pg/g		102	60 - 135
PCB-3	200	206		pg/g		103	60 - 135
PCB-4	200	219		pg/g		109	60 - 135
PCB-15	200	204		pg/g		102	60 - 135
PCB-19	200	221		pg/g		111	60 - 135
PCB-37	200	210		pg/g		105	60 - 135
PCB-54	200	241		pg/g		121	60 - 135
PCB-77	200	205		pg/g		103	60 - 135
PCB-81	200	209		pg/g		104	60 - 135
PCB-104	200	217		pg/g		109	60 - 135
PCB-105	200	215		pg/g		107	60 - 135
PCB-114	200	212		pg/g		106	60 - 135
PCB-118	200	219		pg/g		109	60 - 135
PCB-123	200	206		pg/g		103	60 - 135
PCB-126	200	211		pg/g		105	60 - 135
PCB-155	200	230		pg/g		115	60 - 135
PCB-156/157	400	416		pg/g		104	60 - 135
PCB-167	200	207		pg/g		104	60 - 135
PCB-169	200	216		pg/g		108	60 - 135
PCB-188	200	222		pg/g		111	60 - 135
PCB-189	200	209		pg/g		104	60 - 135
PCB-202	200	229		pg/g		114	60 - 135
PCB-205	200	202		pg/g		101	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32403/2-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32403

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-206			200	210		pg/g		105	60 - 135		
PCB-208			200	207		pg/g		104	60 - 135		
PCB-209			200	208		pg/g		104	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*35*		*15 - 145*
PCB-15L	*48*		*15 - 145*
PCB-123L	*60*		*40 - 145*
PCB-114L	*59*		*40 - 145*
PCB-3L	*40*		*15 - 145*
PCB-118L	*60*		*40 - 145*
PCB-126L	*61*		*40 - 145*
PCB-202L	*52*		*40 - 145*
PCB-169L	*87*		*40 - 145*
PCB-206L	*73*		*40 - 145*
PCB-37L	*56*		*15 - 145*
PCB-19L	*39*		*15 - 145*
PCB-188L	*42*		*40 - 145*
PCB-54L	*31*		*15 - 145*
PCB-156L/157L	*87*		*40 - 145*
PCB-167L	*81*		*40 - 145*
PCB-209L	*63*		*40 - 145*
PCB-189L	*77*		*40 - 145*
PCB-105L	*60*		*40 - 145*
PCB-208L	*73*		*40 - 145*
PCB-1L	*34*		*15 - 145*
PCB-104L	*38*	*	*40 - 145*
PCB-81L	*60*		*40 - 145*
PCB-77L	*61*		*40 - 145*
PCB-205L	*81*		*40 - 145*
PCB-155L	*49*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*51*		*5 - 145*
PCB-111L	*55*		*10 - 145*
PCB-178L	*56*		*10 - 145*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-89692/1-A
Matrix: Solid
Analysis Batch: 93352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13	U	18	13	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Barium	0.22	U	4.5	0.22	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Beryllium	0.15	U	0.45	0.15	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Cadmium	0.089	U	0.45	0.089	mg/Kg		12/04/13 10:55	12/18/13 18:42	1

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

Lab Sample ID: MB 160-89692/1-A
Matrix: Solid
Analysis Batch: 93352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	12	U	220	12	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Chromium	0.27	U	0.89	0.27	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Cobalt	0.84	U	4.5	0.84	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Copper	0.65	U	2.2	0.65	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Iron	2.7	U	8.9	2.7	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Magnesium	7.4	U	89	7.4	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Manganese	0.14	U	0.89	0.14	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Nickel	0.20	U	3.6	0.20	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Lead	0.15	U	0.89	0.15	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Antimony	0.57	U	0.89	0.57	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Silver	0.21	U	0.89	0.21	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Selenium	0.26	U	1.3	0.26	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Titanium	0.56	U	1.8	0.56	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Vanadium	1.1	U	4.5	1.1	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Zinc	1.8	U	4.5	1.8	mg/Kg		12/04/13 10:55	12/18/13 18:42	1

Lab Sample ID: MB 160-89692/1-A
Matrix: Solid
Analysis Batch: 93540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13	U	18	13	mg/Kg		12/04/13 10:55	12/19/13 19:50	1
Potassium	300	U	450	300	mg/Kg		12/04/13 10:55	12/19/13 19:50	1
Sodium	42	U	89	42	mg/Kg		12/04/13 10:55	12/19/13 19:50	1

Lab Sample ID: LCS 160-89692/2-A
Matrix: Solid
Analysis Batch: 93352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	325	328		mg/Kg		101	74 - 125
Beryllium	92.1	86.8		mg/Kg		94	74 - 126
Cadmium	110	104		mg/Kg		95	73 - 139
Calcium	6700	6220		mg/Kg		93	74 - 125
Chromium	93.4	90.6		mg/Kg		97	69 - 130
Cobalt	133	132		mg/Kg		99	74 - 125
Copper	74.7	72.0		mg/Kg		96	73 - 126
Iron	13100	11000		mg/Kg		84	32 - 167
Magnesium	2980	2500		mg/Kg		84	66 - 134
Manganese	443	383		mg/Kg		87	77 - 124
Nickel	109	107		mg/Kg		98	72 - 126
Lead	152	149		mg/Kg		98	73 - 126
Antimony	121	59.2		mg/Kg		49	21 - 251
Silver	51.9	51.4		mg/Kg		99	66 - 133
Selenium	207	196		mg/Kg		95	69 - 131
Titanium	193	185		mg/Kg		96	29 - 171
Vanadium	110	94.4		mg/Kg		86	67 - 132
Zinc	299	286		mg/Kg		96	71 - 128

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

Lab Sample ID: LCS 160-89692/2-A
Matrix: Solid
Analysis Batch: 93540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9780	7130		mg/Kg		73	44 - 155
Potassium	2770	2410		mg/Kg		87	61 - 138
Sodium	724	683		mg/Kg		94	56 - 144

Lab Sample ID: 680-96214-1 MS
Matrix: Solid
Analysis Batch: 93352

Client Sample ID: DD-B-5_SS
Prep Type: Total/NA
Prep Batch: 89692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	350		100	293	F	mg/Kg	☼	-54	75 - 125
Beryllium	0.83	U	100	92.8		mg/Kg	☼	93	75 - 125
Cadmium	0.54	J	100	100		mg/Kg	☼	99	75 - 125
Calcium	21000		1000	21300	4	mg/Kg	☼	16	75 - 125
Chromium	46		100	138		mg/Kg	☼	92	75 - 125
Cobalt	19	J	100	120		mg/Kg	☼	101	75 - 125
Copper	44		100	152		mg/Kg	☼	108	75 - 125
Iron	13000		1000	14000	4	mg/Kg	☼	56	75 - 125
Magnesium	11000		1000	10900	4	mg/Kg	☼	-5	75 - 125
Manganese	2600		100	2510	4	mg/Kg	☼	-62	75 - 125
Nickel	27		100	126		mg/Kg	☼	99	75 - 125
Lead	26		100	128		mg/Kg	☼	102	75 - 125
Antimony	3.2	U	50.1	22.8	F	mg/Kg	☼	46	75 - 125
Silver	1.2	U	20.1	20.3		mg/Kg	☼	101	75 - 125
Selenium	1.5	J	50.1	45.4		mg/Kg	☼	87	75 - 125
Titanium	1100		100	1280	4	mg/Kg	☼	170	75 - 125
Vanadium	77		100	164		mg/Kg	☼	86	75 - 125
Zinc	60		100	162		mg/Kg	☼	102	75 - 125

Lab Sample ID: 680-96214-1 MS
Matrix: Solid
Analysis Batch: 93540

Client Sample ID: DD-B-5_SS
Prep Type: Total/NA
Prep Batch: 89692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9900		1000	11000	4	mg/Kg	☼	109	75 - 125
Potassium	2200	J	1000	3070		mg/Kg	☼	85	75 - 125
Sodium	470	J	1000	1550		mg/Kg	☼	108	75 - 125

Lab Sample ID: 680-96214-1 MSD
Matrix: Solid
Analysis Batch: 93352

Client Sample ID: DD-B-5_SS
Prep Type: Total/NA
Prep Batch: 89692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	350		102	371	F	mg/Kg	☼	24	75 - 125	24	30
Beryllium	0.83	U	102	96.0		mg/Kg	☼	94	75 - 125	3	30
Cadmium	0.54	J	102	100		mg/Kg	☼	97	75 - 125	0	30
Calcium	21000		1020	23700	4	mg/Kg	☼	258	75 - 125	11	30
Chromium	46		102	151		mg/Kg	☼	103	75 - 125	9	30
Cobalt	19	J	102	120		mg/Kg	☼	98	75 - 125	1	30
Copper	44		102	158		mg/Kg	☼	111	75 - 125	4	30

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

Lab Sample ID: 680-96214-1 MSD
Matrix: Solid
Analysis Batch: 93352

Client Sample ID: DD-B-5_SS
Prep Type: Total/NA
Prep Batch: 89692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	13000		1020	15500	4	mg/Kg	☼	202	75 - 125	10	30
Magnesium	11000		1020	11300	4	mg/Kg	☼	41	75 - 125	4	30
Manganese	2600		102	3230	4	mg/Kg	☼	647	75 - 125	25	30
Nickel	27		102	127		mg/Kg	☼	98	75 - 125	0	30
Lead	26		102	132		mg/Kg	☼	104	75 - 125	3	30
Antimony	3.2	U	51.1	20.2	F	mg/Kg	☼	40	75 - 125	12	30
Silver	1.2	U	20.4	21.7		mg/Kg	☼	106	75 - 125	7	30
Selenium	1.5	J	51.1	45.4		mg/Kg	☼	86	75 - 125	0	30
Titanium	1100		102	1510	4	mg/Kg	☼	395	75 - 125	17	30
Vanadium	77		102	183		mg/Kg	☼	104	75 - 125	11	30
Zinc	60		102	166		mg/Kg	☼	103	75 - 125	2	30

Lab Sample ID: 680-96214-1 MSD
Matrix: Solid
Analysis Batch: 93540

Client Sample ID: DD-B-5_SS
Prep Type: Total/NA
Prep Batch: 89692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	9900		1020	13100	4	mg/Kg	☼	311	75 - 125	17	30
Potassium	2200	J	1020	3600	F	mg/Kg	☼	136	75 - 125	16	30
Sodium	470	J	1020	1760	F	mg/Kg	☼	126	75 - 125	13	30

Lab Sample ID: MB 160-92546/1-A
Matrix: Water
Analysis Batch: 93352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	80	U	200	80	ug/L		12/16/13 17:03	12/18/13 18:08	1
Barium	4.0	U	50	4.0	ug/L		12/16/13 17:03	12/18/13 18:08	1
Beryllium	0.61	U	5.0	0.61	ug/L		12/16/13 17:03	12/18/13 18:08	1
Cadmium	0.91	U	5.0	0.91	ug/L		12/16/13 17:03	12/18/13 18:08	1
Calcium	110	U	1000	110	ug/L		12/16/13 17:03	12/18/13 18:08	1
Chromium	3.1	U	10	3.1	ug/L		12/16/13 17:03	12/18/13 18:08	1
Cobalt	4.9	U	50	4.9	ug/L		12/16/13 17:03	12/18/13 18:08	1
Copper	4.6	U	25	4.6	ug/L		12/16/13 17:03	12/18/13 18:08	1
Iron	28	U	100	28	ug/L		12/16/13 17:03	12/18/13 18:08	1
Magnesium	130	U	1000	130	ug/L		12/16/13 17:03	12/18/13 18:08	1
Manganese	3.3	U	15	3.3	ug/L		12/16/13 17:03	12/18/13 18:08	1
Nickel	13	U	40	13	ug/L		12/16/13 17:03	12/18/13 18:08	1
Potassium	1700	U	5000	1700	ug/L		12/16/13 17:03	12/18/13 18:08	1
Lead	1.5	U	10	1.5	ug/L		12/16/13 17:03	12/18/13 18:08	1
Antimony	4.0	U	10	4.0	ug/L		12/16/13 17:03	12/18/13 18:08	1
Silver	6.0	U	10	6.0	ug/L		12/16/13 17:03	12/18/13 18:08	1
Selenium	2.7	U	15	2.7	ug/L		12/16/13 17:03	12/18/13 18:08	1
Sodium	320	U	1000	320	ug/L		12/16/13 17:03	12/18/13 18:08	1
Titanium	2.4	U	20	2.4	ug/L		12/16/13 17:03	12/18/13 18:08	1
Vanadium	4.1	U	50	4.1	ug/L		12/16/13 17:03	12/18/13 18:08	1
Zinc	5.80	J	20	5.2	ug/L		12/16/13 17:03	12/18/13 18:08	1

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

Lab Sample ID: LCS 160-92546/2-A
Matrix: Water
Analysis Batch: 93352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	12200	*	ug/L		122	80 - 120
Barium	1000	1160		ug/L		116	80 - 120
Beryllium	1000	1060		ug/L		106	80 - 120
Cadmium	1000	1090		ug/L		109	80 - 120
Calcium	10000	11400		ug/L		114	80 - 120
Chromium	1000	1110		ug/L		111	80 - 120
Cobalt	1000	1130		ug/L		113	80 - 120
Copper	1000	1140		ug/L		114	80 - 120
Iron	10000	10300		ug/L		103	80 - 120
Magnesium	10000	10000		ug/L		100	80 - 120
Manganese	1000	1020		ug/L		102	80 - 120
Nickel	1000	1160		ug/L		116	80 - 120
Potassium	10000	15700	*	ug/L		157	80 - 120
Lead	1000	1150		ug/L		115	80 - 120
Antimony	500	540		ug/L		108	80 - 120
Silver	200	223		ug/L		111	80 - 120
Selenium	500	542		ug/L		108	80 - 120
Sodium	10000	16100	*	ug/L		161	80 - 120
Titanium	1000	1050		ug/L		105	80 - 120
Vanadium	1000	1010		ug/L		101	80 - 120
Zinc	1000	1110		ug/L		111	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-87033/1-A
Matrix: Solid
Analysis Batch: 92574

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87033

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.23	U	0.89	0.23	mg/Kg		11/21/13 09:19	12/17/13 01:18	2
Niobium	0.34	U	2.2	0.34	mg/Kg		11/21/13 09:19	12/17/13 01:18	2
Thallium	0.14	U ^	0.45	0.14	mg/Kg		11/21/13 09:19	12/17/13 01:18	2
Uranium	0.018	U	0.089	0.018	mg/Kg		11/21/13 09:19	12/17/13 01:18	2

Lab Sample ID: LCS 160-87033/12-A
Matrix: Solid
Analysis Batch: 92574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	47.9	48.5	E	mg/Kg		101	80 - 120
Uranium	95.8	99.0		mg/Kg		103	80 - 120

Lab Sample ID: LCS 160-87033/2-A
Matrix: Solid
Analysis Batch: 92574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	109	108		mg/Kg		99	70 - 131

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

Lab Sample ID: LCS 160-87033/2-A
Matrix: Solid
Analysis Batch: 92574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	171	185	^	mg/Kg		108	68 - 131

Lab Sample ID: 680-96214-1 MS
Matrix: Solid
Analysis Batch: 92574

Client Sample ID: DD-B-5_SS
Prep Type: Total/NA
Prep Batch: 87033

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.3	J	99.3	104		mg/Kg	☼	100	75 - 125
Niobium	50		49.6	95.4		mg/Kg	☼	92	75 - 125
Thallium	0.76	U ^	19.9	21.1	^	mg/Kg	☼	106	75 - 125
Uranium	4.5		99.3	105		mg/Kg	☼	101	75 - 125

Lab Sample ID: 680-96214-1 MSD
Matrix: Solid
Analysis Batch: 92574

Client Sample ID: DD-B-5_SS
Prep Type: Total/NA
Prep Batch: 87033

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.3	J	98.4	102		mg/Kg	☼	99	75 - 125	1	30
Niobium	50		49.2	92.5		mg/Kg	☼	87	75 - 125	3	30
Thallium	0.76	U ^	19.7	21.4	^	mg/Kg	☼	109	75 - 125	1	30
Uranium	4.5		98.4	106		mg/Kg	☼	103	75 - 125	1	30

Lab Sample ID: MB 160-92545/1-A
Matrix: Water
Analysis Batch: 93570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92545

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		12/16/13 17:01	12/20/13 02:53	1
Niobium	2.2	U	25	2.2	ug/L		12/16/13 17:01	12/20/13 02:53	1
Thallium	0.55	U	2.0	0.55	ug/L		12/16/13 17:01	12/20/13 02:53	1
Uranium	0.23	U	1.0	0.23	ug/L		12/16/13 17:01	12/20/13 02:53	1

Lab Sample ID: LCS 160-92545/2-A
Matrix: Water
Analysis Batch: 93570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92545

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	996		ug/L		100	80 - 120
Niobium	500	555	E	ug/L		111	80 - 120
Thallium	200	218		ug/L		109	80 - 120
Uranium	1000	1030		ug/L		103	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-86332/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 86377 — **Prep Batch: 86332**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		11/19/13 11:20	11/19/13 12:42	1

Lab Sample ID: LCS 160-86332/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 86377 — **Prep Batch: 86332**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.13		ug/L		103	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 160-86158/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 87669 — **Prep Batch: 86158**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg		11/18/13 14:10	11/24/13 12:04	1

Lab Sample ID: LCS 160-86158/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 87669 — **Prep Batch: 86158**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	16.3	14.7		mg/Kg		90	51 - 148

Lab Sample ID: 680-96214-1 MS — **Client Sample ID: DD-B-5_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 87669 — **Prep Batch: 86158**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.045		0.824	0.879		mg/Kg	☼	101	80 - 120

Lab Sample ID: 680-96214-1 MSD — **Client Sample ID: DD-B-5_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 87669 — **Prep Batch: 86158**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.045		0.822	0.881		mg/Kg	☼	102	80 - 120	0	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-86828/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 86828

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0040	U	0.020	0.0040	mg/L			11/15/13 16:34	1
Chloride	0.020	U	0.20	0.020	mg/L			11/15/13 16:34	1
Sulfate	0.050	U	0.50	0.050	mg/L			11/15/13 16:34	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 160-86828/4
Matrix: Water
Analysis Batch: 86828

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.400	0.394		mg/L		99	90 - 110
Chloride	2.00	1.90		mg/L		95	90 - 110
Sulfate	8.00	7.74		mg/L		97	90 - 110

Lab Sample ID: 680-96214-7 MS
Matrix: Water
Analysis Batch: 86828

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.0098	J H	0.400	0.405		mg/L		99	90 - 110
Chloride	0.020	U	2.00	1.89		mg/L		94	90 - 110
Sulfate	0.050	U	4.00	3.79		mg/L		95	90 - 110

Lab Sample ID: 680-96214-7 MSD
Matrix: Water
Analysis Batch: 86828

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.0098	J H	0.400	0.398		mg/L		97	90 - 110	2	20
Chloride	0.020	U	2.00	1.88		mg/L		94	90 - 110	0	20
Sulfate	0.050	U	4.00	3.80		mg/L		95	90 - 110	0	20

Lab Sample ID: MB 160-89704/1-A
Matrix: Solid
Analysis Batch: 92586

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.040	U	0.20	0.040	mg/Kg			12/05/13 13:17	1
Chloride	0.20	U	2.0	0.20	mg/Kg			12/05/13 13:17	1
Sulfate	0.50	U	5.0	0.50	mg/Kg			12/05/13 13:17	1

Lab Sample ID: LCS 160-89704/2-A
Matrix: Solid
Analysis Batch: 92586

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.00	3.85		mg/Kg		96	90 - 110
Chloride	20.0	20.1		mg/Kg		101	90 - 110
Sulfate	80.0	77.3		mg/Kg		97	90 - 110

Lab Sample ID: 680-96214-1 MS
Matrix: Solid
Analysis Batch: 92586

Client Sample ID: DD-B-5_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	7.6		4.12	11.8		mg/Kg	☼	101	90 - 110
Chloride	22		20.6	44.4		mg/Kg	☼	108	90 - 110
Sulfate	61		41.2	104		mg/Kg	☼	105	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-96214-1 MSD
Matrix: Solid
Analysis Batch: 92586

Client Sample ID: DD-B-5_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	7.6		4.12	11.8		mg/Kg	☼	100	90 - 110	0	20
Chloride	22		20.6	44.6		mg/Kg	☼	109	90 - 110	1	20
Sulfate	61		41.2	103		mg/Kg	☼	104	90 - 110	1	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-90393/1-A
Matrix: Solid
Analysis Batch: 90524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90393

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	2.471	U	10.0	4.17	pCi/g		12/09/13 08:58	12/09/13 20:41	1
Gross Beta	-0.05760	U	10.0	2.15	pCi/g		12/09/13 08:58	12/09/13 20:41	1

Lab Sample ID: LCS 160-90393/2-A
Matrix: Solid
Analysis Batch: 90524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90393

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	27.1	26.72		6.43	4.57	pCi/g	99	44 - 140
Gross Beta	26.8	23.89		3.81	2.70	pCi/g	89	38 - 130

Lab Sample ID: 680-96214-3 DU
Matrix: Solid
Analysis Batch: 90524

Client Sample ID: NS-B-2_SS
Prep Type: Total/NA
Prep Batch: 90393

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Gross Alpha	108		108.9		16.5	4.43	pCi/g	0.02	1
Gross Beta	55.8		56.70		7.30	3.41	pCi/g	0.06	1

Lab Sample ID: MB 160-92247/1-A
Matrix: Water
Analysis Batch: 93509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92247

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.2349	U	3.00	1.29	pCi/L		12/16/13 10:37	12/19/13 11:59	1
Gross Beta	-0.1423	U	4.00	0.838	pCi/L		12/16/13 10:37	12/19/13 11:59	1

Lab Sample ID: LCS 160-92247/2-A
Matrix: Water
Analysis Batch: 93509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92247

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	53.8	62.46		8.75	1.69	pCi/L	116	75 - 125

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Lab Sample ID: LCSB 160-92247/3-A
Matrix: Water
Analysis Batch: 93509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92247

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	98.3	100.7		10.6	1.02	pCi/L	102	75 - 125

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-86195/1-A
Matrix: Water
Analysis Batch: 91178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86195

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	12.24	U		32.9	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Bismuth-212	-0.1545	U		134	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Bismuth-214	6.006	U		22.3	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Bismuth-210M	0.0000	U		13.8	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Cesium-134	0.8725	U		9.46	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Cesium-137	2.283	U		11.2	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Cobalt-57	0.9808	U		4.90	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Cobalt-60	3.206	U		9.57	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Lead-212	-3.854	U		18.6	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Lead-214	-6.790	U		22.8	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Potassium-40	-49.12	U		175	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Protactinium-231	31.73	U		194	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Protactinium-234	0.7426	U		30.0	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Radium-224	2.527	U		132	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Thallium-208	-0.4973	U		12.8	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Thorium-227	-0.1314	U		58.1	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Thorium-234	-28.72	U		191	pCi/L		11/18/13 17:52	12/11/13 20:49	1

Lab Sample ID: LCS 160-86195/2-A
Matrix: Water
Analysis Batch: 91181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 86195

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	44000	42320		4240	114	pCi/L	96	90 - 111
Cobalt-60	29900	28120		2780	68.9	pCi/L	94	89 - 110

Lab Sample ID: MB 160-87427/1-A
Matrix: Solid
Analysis Batch: 92182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87427

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	-0.06383	U		0.361	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Bismuth-212	0.0000	U		1.35	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Bismuth-214	-0.05041	U		0.170	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Bismuth-210M	0.01418	U		0.0917	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Cesium-134	0.009292	U		0.0975	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Cesium-137	-0.01521	U		0.114	pCi/g		11/22/13 12:38	12/13/13 15:33	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-87427/1-A
Matrix: Solid
Analysis Batch: 92182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87427

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt-57	0.0003680	U		0.0361	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Cobalt-60	0.001910	U		0.100	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Lead-212	0.05275	U		0.114	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Lead-214	0.06372	U		0.133	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Potassium-40	-0.2937	U		0.952	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Protactinium-231	-0.03080	U		1.83	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Protactinium-234	0.001205	U		0.190	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Radium-224	-0.3603	U		1.45	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Thallium-208	0.01834	U		0.0940	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Thorium-227	-0.02331	U		0.479	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Thorium-234	0.07137	U		1.41	pCi/g		11/22/13 12:38	12/13/13 15:33	1

Lab Sample ID: LCS 160-87427/2-A
Matrix: Solid
Analysis Batch: 92033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87427

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	31.4	31.05		3.30	0.230	pCi/g	99	87 - 120
Cobalt-60	23.8	23.20		2.38	0.0937	pCi/g	98	87 - 115
Americium-241	97.5	94.83		9.96	1.11	pCi/g	97	87 - 116

Lab Sample ID: 680-96214-3 DU
Matrix: Solid
Analysis Batch: 92188

Client Sample ID: NS-B-2_SS
Prep Type: Total/NA
Prep Batch: 87427

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Actinium 228	2.60		2.586		0.515	0.300	pCi/g	0.01	1
Bismuth-212	3.46		3.489		1.64	1.61	pCi/g	0.01	1
Bismuth-214	3.89		4.283		0.655	0.251	pCi/g	0.33	1
Bismuth-210M	-0.00195	U	0.001575	U	0.145	0.252	pCi/g	0.02	1
Cesium-134	0.0832	U	0.07290	U	0.0653	0.118	pCi/g	0.1	1
Cesium-137	-0.00321	U	0.05412	U	0.0898	0.152	pCi/g	0.37	1
Cobalt-57	0.0669	U	-0.01307	U	0.0719	0.122	pCi/g	0.64	1
Cobalt-60	-0.0152	U	0.02806	U	0.0868	0.215	pCi/g	0.28	1
Lead-212	2.46		2.615		0.433	0.236	pCi/g	0.19	1
Lead-214	4.20		4.049		0.585	0.367	pCi/g	0.14	1
Potassium-40	21.4		23.32		3.87	1.22	pCi/g	0.28	1
Protactinium-231	2.38		1.909	U	2.09	3.99	pCi/g	0.15	1
Protactinium-234	0.0120	U	0.01854	U	0.340	0.603	pCi/g	0.02	1
Radium-224	2.67	U	2.452	U	2.40	3.87	pCi/g	0.05	1
Thallium-208	0.883		0.8470		0.187	0.123	pCi/g	0.10	1
Thorium-227	0.154	U	0.1268	U	0.227	2.87	pCi/g	0.03	1
Thorium-234	2.88		3.563	U	1.39	3.70	pCi/g	0.29	1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-86142/1-A
Matrix: Water
Analysis Batch: 90958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86142

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.05546	U	1.00	0.0884	pCi/L		11/18/13 13:48	12/10/13 06:36	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*40 - 110*	*11/18/13 13:48*	*12/10/13 06:36*	*1*

Lab Sample ID: LCS 160-86142/2-A
Matrix: Water
Analysis Batch: 90958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 86142

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.2	10.63		1.05		0.0969	pCi/L	95	68 - 137		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*100*		*40 - 110*

Lab Sample ID: 680-96214-7 DU
Matrix: Water
Analysis Batch: 90958

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 86142

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-226	0.0280	U		0.04313	U	0.0618		0.104	pCi/L			0.12	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*93.2*		*40 - 110*

Lab Sample ID: MB 160-87447/1-A
Matrix: Solid
Analysis Batch: 92650

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87447

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.04979	U	1.00	0.0915	pCi/g		11/22/13 13:48	12/17/13 08:47	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*40 - 110*	*11/22/13 13:48*	*12/17/13 08:47*	*1*

Lab Sample ID: LCS 160-87447/2-A
Matrix: Solid
Analysis Batch: 92650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87447

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.2	10.55		1.05		0.0821	pCi/g	94	65 - 140		

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-87447/2-A
Matrix: Solid
Analysis Batch: 92650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87447

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	109		40 - 110

Lab Sample ID: 680-96214-3 DU
Matrix: Solid
Analysis Batch: 92650

Client Sample ID: NS-B-2_SS
Prep Type: Total/NA
Prep Batch: 87447

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-226	5.04			4.270		0.483		0.104	pCi/g			0.74	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	115	X	40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-86143/1-A
Matrix: Water
Analysis Batch: 89753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86143

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.1401	U	1.00	0.325	pCi/L		11/18/13 13:55	12/04/13 11:07	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110	11/18/13 13:55	12/04/13 11:07	1
Y Carrier	87.1		40 - 110	11/18/13 13:55	12/04/13 11:07	1

Lab Sample ID: LCS 160-86143/2-A
Matrix: Water
Analysis Batch: 89753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 86143

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-228			4.07	3.677		0.530		0.328	pCi/L	90	56 - 140		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	100		40 - 110
Y Carrier	89.7		40 - 110

Lab Sample ID: 680-96214-7 DU
Matrix: Water
Analysis Batch: 89753

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 86143

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-228	0.149	U		0.1072	U	0.223		0.382	pCi/L			0.1	1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 680-96214-7 DU
Matrix: Water
Analysis Batch: 89753

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 86143

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	93.2		40 - 110
Y Carrier	89.7		40 - 110

Lab Sample ID: MB 160-87450/1-A
Matrix: Solid
Analysis Batch: 91104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87450

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.2546	U	1.00	0.315	pCi/g		11/22/13 14:11	12/11/13 10:58	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110	11/22/13 14:11	12/11/13 10:58	1
Y Carrier	85.6		40 - 110	11/22/13 14:11	12/11/13 10:58	1

Lab Sample ID: LCS 160-87450/2-A
Matrix: Solid
Analysis Batch: 91104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87450

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-228			4.06	4.173		0.596		0.382	pCi/g	103	61 - 139		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	109		40 - 110
Y Carrier	82.6		40 - 110

Lab Sample ID: 680-96214-3 DU
Matrix: Solid
Analysis Batch: 91104

Client Sample ID: NS-B-2_SS
Prep Type: Total/NA
Prep Batch: 87450

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-228	1.80			2.099		0.402		0.359	pCi/g			0.39	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	115	X	40 - 110
Y Carrier	80.7		40 - 110

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-92254/1-A
Matrix: Solid
Analysis Batch: 94589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92254

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.04554		1.00	0.0327	pCi/g		12/16/13 13:26	12/24/13 17:35	1
Thorium-230	0.04794		1.00	0.0275	pCi/g		12/16/13 13:26	12/24/13 17:35	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: MB 160-92254/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 94589 — **Prep Batch: 92254**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-232	0.005770	U	1.00	0.0325	pCi/g		12/16/13 13:26	12/24/13 17:35	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*82.0*		*30 - 110*	*12/16/13 13:26*	*12/24/13 17:35*	*1*

Lab Sample ID: LCS 160-92254/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 94590 — **Prep Batch: 92254**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Thorium-230	24.5	21.99		2.06	0.0681	pCi/g	90	81 - 118

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*92.5*		*30 - 110*

Lab Sample ID: MB 160-92428/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95201 — **Prep Batch: 92428**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.06046	U	1.00	0.0700	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-230	0.1744		1.00	0.0535	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-232	0.01857	U	1.00	0.0466	pCi/g		12/16/13 15:38	12/27/13 20:53	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*92.9*		*30 - 110*	*12/16/13 15:38*	*12/27/13 20:53*	*1*

Lab Sample ID: LCS 160-92428/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95202 — **Prep Batch: 92428**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Thorium-230	24.5	23.51		2.41	0.104	pCi/g	96	81 - 118

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*90.0*		*30 - 110*

Lab Sample ID: MB 160-92784/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94862 — **Prep Batch: 92784**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.09687	U	1.00	0.116	pCi/L		12/18/13 08:38	12/26/13 16:42	1
Thorium-230	0.1231		1.00	0.116	pCi/L		12/18/13 08:38	12/26/13 16:42	1
Thorium-232	0.02055	U	1.00	0.115	pCi/L		12/18/13 08:38	12/26/13 16:42	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: MB 160-92784/1-A
Matrix: Water
Analysis Batch: 94862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92784

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	73.7		30 - 110	12/18/13 08:38	12/26/13 16:42	1

Lab Sample ID: LCS 160-92784/2-A
Matrix: Water
Analysis Batch: 94864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92784

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			8.64	10.01		1.36		0.147	pCi/L	116	81 - 125		

Tracer	LCS %Yield	LCS Qualifier	Limits
Thorium-229	66.7		30 - 110

Lab Sample ID: LCSD 160-92784/3-A
Matrix: Water
Analysis Batch: 94865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92784

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Thorium-230			8.64	8.662		1.22		0.127	pCi/L	100	81 - 125	0.52	1

Tracer	LCSD %Yield	LCSD Qualifier	Limits
Thorium-229	64.8		30 - 110

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-92431/1-A
Matrix: Solid
Analysis Batch: 94585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92431

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.005769	U	1.00	0.0173	pCi/g		12/16/13 13:26	12/24/13 17:41	1
Uranium-238	0.009253	U	1.00	0.0139	pCi/g		12/16/13 13:26	12/24/13 17:41	1
Uranium-233/234	0.02588		1.00	0.0256	pCi/g		12/16/13 13:26	12/24/13 17:41	1

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	90.6		30 - 110	12/16/13 13:26	12/24/13 17:41	1

Lab Sample ID: LCS 160-92431/2-A
Matrix: Solid
Analysis Batch: 94586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92431

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Uranium-235/236			0.152	0.1205		0.0524		0.0295	pCi/g	79			
Uranium-238			3.26	2.958		0.335		0.0128	pCi/g	91	82 - 122		

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-92431/2-A
Matrix: Solid
Analysis Batch: 94586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92431

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-233/234	3.18	2.967		0.336	0.0316	pCi/g	93	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*98.7*		*30 - 110*

Lab Sample ID: MB 160-92438/1-A
Matrix: Solid
Analysis Batch: 94846

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92438

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.0000	U	1.00	0.0381	pCi/g		12/16/13 15:38	12/26/13 16:50	1
Uranium-238	0.004454	U	1.00	0.0579	pCi/g		12/16/13 15:38	12/26/13 16:50	1
Uranium-233/234	0.04526	U	1.00	0.0580	pCi/g		12/16/13 15:38	12/26/13 16:50	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*92.8*		*30 - 110*	*12/16/13 15:38*	*12/26/13 16:50*	*1*

Lab Sample ID: LCS 160-92438/2-A
Matrix: Solid
Analysis Batch: 94847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92438

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.304	0.4216		0.153	0.0395	pCi/g	139	
Uranium-238	6.51	5.562		0.674	0.0601	pCi/g	85	82 - 122
Uranium-233/234	6.37	5.725		0.688	0.0482	pCi/g	90	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*90.4*		*30 - 110*

Lab Sample ID: MB 160-92798/1-A
Matrix: Water
Analysis Batch: 94866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92798

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.03060	U	1.00	0.0918	pCi/L		12/18/13 08:38	12/26/13 16:43	1
U-238	-0.009204	U	1.00	0.128	pCi/L		12/18/13 08:38	12/26/13 16:43	1
Uranium-233/234	0.04458	U	1.00	0.112	pCi/L		12/18/13 08:38	12/26/13 16:43	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*75.6*		*30 - 110*	*12/18/13 08:38*	*12/26/13 16:43*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-92798/2-A
Matrix: Water
Analysis Batch: 94826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92798

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.607	0.5990		0.282	0.145	pCi/L	99	
U-238	13.0	12.74		1.56	0.116	pCi/L	98	83 - 121
Uranium-233/234	12.7	12.22		1.52	0.182	pCi/L	96	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*75.3*		*30 - 110*

Lab Sample ID: LCSD 160-92798/3-A
Matrix: Water
Analysis Batch: 94827

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92798

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Uranium-235/236	0.607	0.9674		0.381	0.107	pCi/L	159		0.56	1
U-238	13.0	12.60		1.60	0.149	pCi/L	97	83 - 121	0.04	1
Uranium-233/234	12.7	12.34		1.58	0.164	pCi/L	97	84 - 120	0.04	1

Tracer	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Uranium-232	*63.9*		*30 - 110*

Specialty Organics

Prep Batch: 31731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	HRMS-Sep	
LCS 320-31731/2-A	Lab Control Sample	Total/NA	Water	HRMS-Sep	
LCSD 320-31731/3-A	Lab Control Sample Dup	Total/NA	Water	HRMS-Sep	
MB 320-31731/1-A	Method Blank	Total/NA	Water	HRMS-Sep	

Prep Batch: 32403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	HRMS-Sox	
LCS 320-32403/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
MB 320-32403/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	

Analysis Batch: 32972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	1668C	32403
LCS 320-32403/2-A	Lab Control Sample	Total/NA	Solid	1668C	32403
MB 320-32403/1-A	Method Blank	Total/NA	Solid	1668C	32403

Analysis Batch: 33175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-31731/2-A	Lab Control Sample	Total/NA	Water	1668C	31731
LCSD 320-31731/3-A	Lab Control Sample Dup	Total/NA	Water	1668C	31731
MB 320-31731/1-A	Method Blank	Total/NA	Water	1668C	31731

Analysis Batch: 33177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	1668C	31731

Metals

Prep Batch: 86158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	7471B	
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	7471B	
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	7471B	
680-96214-2	DD-B-5_SUB	Total/NA	Solid	7471B	
680-96214-3	NS-B-2_SS	Total/NA	Solid	7471B	
680-96214-4	NS-B-2_SUB	Total/NA	Solid	7471B	
680-96214-5	NS-B-1_SS	Total/NA	Solid	7471B	
680-96214-6	NS-B-1_SUB	Total/NA	Solid	7471B	
LCS 160-86158/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-86158/1-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 86332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	7470A	
LCS 160-86332/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 160-86332/1-A	Method Blank	Total/NA	Water	7470A	

Metals (Continued)

Analysis Batch: 86377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	7470A	86332
LCS 160-86332/2-A	Lab Control Sample	Total/NA	Water	7470A	86332
MB 160-86332/1-A	Method Blank	Total/NA	Water	7470A	86332

Prep Batch: 87033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	3050B	
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	3050B	
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	3050B	
680-96214-2	DD-B-5_SUB	Total/NA	Solid	3050B	
680-96214-3	NS-B-2_SS	Total/NA	Solid	3050B	
680-96214-4	NS-B-2_SUB	Total/NA	Solid	3050B	
680-96214-5	NS-B-1_SS	Total/NA	Solid	3050B	
680-96214-6	NS-B-1_SUB	Total/NA	Solid	3050B	
LCS 160-87033/12-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 160-87033/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-87033/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 87669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	7471B	86158
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	7471B	86158
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	7471B	86158
680-96214-2	DD-B-5_SUB	Total/NA	Solid	7471B	86158
680-96214-3	NS-B-2_SS	Total/NA	Solid	7471B	86158
680-96214-4	NS-B-2_SUB	Total/NA	Solid	7471B	86158
680-96214-5	NS-B-1_SS	Total/NA	Solid	7471B	86158
680-96214-6	NS-B-1_SUB	Total/NA	Solid	7471B	86158
LCS 160-86158/2-A	Lab Control Sample	Total/NA	Solid	7471B	86158
MB 160-86158/1-A	Method Blank	Total/NA	Solid	7471B	86158

Prep Batch: 89692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	3050B	
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	3050B	
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	3050B	
680-96214-2	DD-B-5_SUB	Total/NA	Solid	3050B	
680-96214-3	NS-B-2_SS	Total/NA	Solid	3050B	
680-96214-4	NS-B-2_SUB	Total/NA	Solid	3050B	
680-96214-5	NS-B-1_SS	Total/NA	Solid	3050B	
680-96214-6	NS-B-1_SUB	Total/NA	Solid	3050B	
LCS 160-89692/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-89692/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 92545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	3010A	
LCS 160-92545/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-92545/1-A	Method Blank	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 92546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	3010A	
LCS 160-92546/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-92546/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 92574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	6020A	87033
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	6020A	87033
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	6020A	87033
680-96214-2	DD-B-5_SUB	Total/NA	Solid	6020A	87033
680-96214-3	NS-B-2_SS	Total/NA	Solid	6020A	87033
680-96214-4	NS-B-2_SUB	Total/NA	Solid	6020A	87033
680-96214-5	NS-B-1_SS	Total/NA	Solid	6020A	87033
680-96214-6	NS-B-1_SUB	Total/NA	Solid	6020A	87033
LCS 160-87033/12-A	Lab Control Sample	Total/NA	Solid	6020A	87033
LCS 160-87033/2-A	Lab Control Sample	Total/NA	Solid	6020A	87033
MB 160-87033/1-A	Method Blank	Total/NA	Solid	6020A	87033

Analysis Batch: 93352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	6010C	89692
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	6010C	89692
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	6010C	89692
680-96214-2	DD-B-5_SUB	Total/NA	Solid	6010C	89692
680-96214-3	NS-B-2_SS	Total/NA	Solid	6010C	89692
680-96214-4	NS-B-2_SUB	Total/NA	Solid	6010C	89692
680-96214-5	NS-B-1_SS	Total/NA	Solid	6010C	89692
680-96214-6	NS-B-1_SUB	Total/NA	Solid	6010C	89692
680-96214-7	RINSATE	Total/NA	Water	6010C	92546
LCS 160-89692/2-A	Lab Control Sample	Total/NA	Solid	6010C	89692
LCS 160-92546/2-A	Lab Control Sample	Total/NA	Water	6010C	92546
MB 160-89692/1-A	Method Blank	Total/NA	Solid	6010C	89692
MB 160-92546/1-A	Method Blank	Total/NA	Water	6010C	92546

Analysis Batch: 93540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	6010C	89692
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	6010C	89692
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	6010C	89692
680-96214-2	DD-B-5_SUB	Total/NA	Solid	6010C	89692
680-96214-3	NS-B-2_SS	Total/NA	Solid	6010C	89692
680-96214-4	NS-B-2_SUB	Total/NA	Solid	6010C	89692
680-96214-5	NS-B-1_SS	Total/NA	Solid	6010C	89692
680-96214-6	NS-B-1_SUB	Total/NA	Solid	6010C	89692
LCS 160-89692/2-A	Lab Control Sample	Total/NA	Solid	6010C	89692
MB 160-89692/1-A	Method Blank	Total/NA	Solid	6010C	89692

Analysis Batch: 93570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	6020A	92545
LCS 160-92545/2-A	Lab Control Sample	Total/NA	Water	6020A	92545

Metals (Continued)

Analysis Batch: 93570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-92545/1-A	Method Blank	Total/NA	Water	6020A	92545

Analysis Batch: 94069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	6020A	87033

General Chemistry

Analysis Batch: 86090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	Moisture	
680-96214-2	DD-B-5_SUB	Total/NA	Solid	Moisture	
680-96214-3	NS-B-2_SS	Total/NA	Solid	Moisture	
680-96214-4	NS-B-2_SUB	Total/NA	Solid	Moisture	
680-96214-5	NS-B-1_SS	Total/NA	Solid	Moisture	
680-96214-6	NS-B-1_SUB	Total/NA	Solid	Moisture	

Analysis Batch: 86828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	300.0	
680-96214-7 MS	RINSATE	Total/NA	Water	300.0	
680-96214-7 MSD	RINSATE	Total/NA	Water	300.0	
LCS 160-86828/4	Lab Control Sample	Total/NA	Water	300.0	
MB 160-86828/3	Method Blank	Total/NA	Water	300.0	

Leach Batch: 89704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Soluble	Solid	DI Leach	
680-96214-1 MS	DD-B-5_SS	Soluble	Solid	DI Leach	
680-96214-1 MSD	DD-B-5_SS	Soluble	Solid	DI Leach	
680-96214-2	DD-B-5_SUB	Soluble	Solid	DI Leach	
680-96214-3 - DL	NS-B-2_SS	Soluble	Solid	DI Leach	
680-96214-4	NS-B-2_SUB	Soluble	Solid	DI Leach	
680-96214-4 - DL	NS-B-2_SUB	Soluble	Solid	DI Leach	
680-96214-5 - DL	NS-B-1_SS	Soluble	Solid	DI Leach	
680-96214-5 - DL2	NS-B-1_SS	Soluble	Solid	DI Leach	
680-96214-6 - DL	NS-B-1_SUB	Soluble	Solid	DI Leach	
680-96214-6 - DL2	NS-B-1_SUB	Soluble	Solid	DI Leach	
680-96214-6	NS-B-1_SUB	Soluble	Solid	DI Leach	
LCS 160-89704/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 160-89704/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 92586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Soluble	Solid	300.0	89704
680-96214-1 MS	DD-B-5_SS	Soluble	Solid	300.0	89704
680-96214-1 MSD	DD-B-5_SS	Soluble	Solid	300.0	89704
680-96214-2	DD-B-5_SUB	Soluble	Solid	300.0	89704
680-96214-3 - DL	NS-B-2_SS	Soluble	Solid	300.0	89704
680-96214-3 - DL	NS-B-2_SS	Soluble	Solid	300.0	89704

General Chemistry (Continued)

Analysis Batch: 92586 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-4	NS-B-2_SUB	Soluble	Solid	300.0	89704
680-96214-4 - DL	NS-B-2_SUB	Soluble	Solid	300.0	89704
680-96214-5 - DL	NS-B-1_SS	Soluble	Solid	300.0	89704
680-96214-5 - DL2	NS-B-1_SS	Soluble	Solid	300.0	89704
680-96214-6	NS-B-1_SUB	Soluble	Solid	300.0	89704
680-96214-6 - DL	NS-B-1_SUB	Soluble	Solid	300.0	89704
680-96214-6 - DL2	NS-B-1_SUB	Soluble	Solid	300.0	89704
LCS 160-89704/2-A	Lab Control Sample	Soluble	Solid	300.0	89704
MB 160-89704/1-A	Method Blank	Soluble	Solid	300.0	89704

Rad

Prep Batch: 86142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	PrecSep-21	
680-96214-7 DU	RINSATE	Total/NA	Water	PrecSep-21	
LCS 160-86142/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
MB 160-86142/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Prep Batch: 86143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	PrecSep_0	
680-96214-7 DU	RINSATE	Total/NA	Water	PrecSep_0	
LCS 160-86143/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-86143/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Prep Batch: 86195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	Fill_Geo-21	
LCS 160-86195/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-21	
MB 160-86195/1-A	Method Blank	Total/NA	Water	Fill_Geo-21	

Leach Batch: 86869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	Dry and Grind	
680-96214-3 DU	NS-B-2_SS	Total/NA	Solid	Dry and Grind	
680-96214-4	NS-B-2_SUB	Total/NA	Solid	Dry and Grind	
680-96214-5	NS-B-1_SS	Total/NA	Solid	Dry and Grind	
680-96214-6	NS-B-1_SUB	Total/NA	Solid	Dry and Grind	

Prep Batch: 87427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	Fill_Geo-21	86869
680-96214-3 DU	NS-B-2_SS	Total/NA	Solid	Fill_Geo-21	86869
680-96214-4	NS-B-2_SUB	Total/NA	Solid	Fill_Geo-21	86869
680-96214-5	NS-B-1_SS	Total/NA	Solid	Fill_Geo-21	86869
680-96214-6	NS-B-1_SUB	Total/NA	Solid	Fill_Geo-21	86869
LCS 160-87427/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-87427/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Rad (Continued)

Prep Batch: 87447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	DPS-21	86869
680-96214-3 DU	NS-B-2_SS	Total/NA	Solid	DPS-21	86869
680-96214-4	NS-B-2_SUB	Total/NA	Solid	DPS-21	86869
680-96214-5	NS-B-1_SS	Total/NA	Solid	DPS-21	86869
680-96214-6	NS-B-1_SUB	Total/NA	Solid	DPS-21	86869
LCS 160-87447/2-A	Lab Control Sample	Total/NA	Solid	DPS-21	
MB 160-87447/1-A	Method Blank	Total/NA	Solid	DPS-21	

Prep Batch: 87450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	DPS-0	86869
680-96214-3 DU	NS-B-2_SS	Total/NA	Solid	DPS-0	86869
680-96214-4	NS-B-2_SUB	Total/NA	Solid	DPS-0	86869
680-96214-5	NS-B-1_SS	Total/NA	Solid	DPS-0	86869
680-96214-6	NS-B-1_SUB	Total/NA	Solid	DPS-0	86869
LCS 160-87450/2-A	Lab Control Sample	Total/NA	Solid	DPS-0	
MB 160-87450/1-A	Method Blank	Total/NA	Solid	DPS-0	

Prep Batch: 90393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	Thin_Layer	86869
680-96214-3 DU	NS-B-2_SS	Total/NA	Solid	Thin_Layer	86869
680-96214-4	NS-B-2_SUB	Total/NA	Solid	Thin_Layer	86869
680-96214-5	NS-B-1_SS	Total/NA	Solid	Thin_Layer	86869
680-96214-6	NS-B-1_SUB	Total/NA	Solid	Thin_Layer	86869
LCS 160-90393/2-A	Lab Control Sample	Total/NA	Solid	Thin_Layer	
MB 160-90393/1-A	Method Blank	Total/NA	Solid	Thin_Layer	

Prep Batch: 92247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	Evaporation	
LCS 160-92247/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-92247/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-92247/1-A	Method Blank	Total/NA	Water	Evaporation	

Prep Batch: 92254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	ExtChrom	86869
680-96214-4	NS-B-2_SUB	Total/NA	Solid	ExtChrom	86869
LCS 160-92254/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-92254/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 92428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-5	NS-B-1_SS	Total/NA	Solid	ExtChrom	86869
680-96214-6	NS-B-1_SUB	Total/NA	Solid	ExtChrom	86869
LCS 160-92428/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-92428/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Rad (Continued)

Prep Batch: 92431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	ExtChrom	86869
680-96214-4	NS-B-2_SUB	Total/NA	Solid	ExtChrom	86869
LCS 160-92431/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-92431/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 92438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-5	NS-B-1_SS	Total/NA	Solid	ExtChrom	86869
680-96214-6	NS-B-1_SUB	Total/NA	Solid	ExtChrom	86869
LCS 160-92438/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-92438/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 92784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-92784/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-92784/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-92784/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 92798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-92798/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-92798/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-92798/1-A	Method Blank	Total/NA	Water	ExtChrom	

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: DD-B-5_SS

Lab Sample ID: 680-96214-1

Date Collected: 11/13/13 12:45

Matrix: Solid

Date Received: 11/15/13 09:15

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			32403	12/21/13 12:08	GDB	TAL SAC
Total/NA	Analysis	1668C		1	32972	12/31/13 21:37	KSS	TAL SAC
Total/NA	Prep	7471B			86158	11/18/13 14:10	MTS	TAL SL
Total/NA	Analysis	7471B		1	87669	11/24/13 12:08	MTS	TAL SL
Total/NA	Prep	3050B			87033	11/21/13 09:19	WA1	TAL SL
Total/NA	Analysis	6020A		10	92574	12/17/13 01:38	CCB	TAL SL
Total/NA	Analysis	6010C		5	93352	12/18/13 18:58	FLC	TAL SL
Total/NA	Prep	3050B			89692	12/04/13 10:55	WA1	TAL SL
Total/NA	Analysis	6010C		5	93540	12/19/13 19:57	FLC	TAL SL
Total/NA	Analysis	Moisture		1	86090	11/18/13 06:38	SDB	TAL SL
Soluble	Leach	DI Leach			89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0		1	92586	12/05/13 13:46	AMF	TAL SL

Client Sample ID: DD-B-5_SUB

Lab Sample ID: 680-96214-2

Date Collected: 11/13/13 14:15

Matrix: Solid

Date Received: 11/15/13 09:15

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			86158	11/18/13 14:10	MTS	TAL SL
Total/NA	Analysis	7471B		1	87669	11/24/13 12:18	MTS	TAL SL
Total/NA	Prep	3050B			87033	11/21/13 09:19	WA1	TAL SL
Total/NA	Analysis	6020A		10	92574	12/17/13 02:05	CCB	TAL SL
Total/NA	Prep	3050B			89692	12/04/13 10:55	WA1	TAL SL
Total/NA	Analysis	6010C		5	93352	12/18/13 19:13	FLC	TAL SL
Total/NA	Analysis	6010C		5	93540	12/19/13 20:12	FLC	TAL SL
Total/NA	Analysis	Moisture		1	86090	11/18/13 06:38	SDB	TAL SL
Soluble	Leach	DI Leach			89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0		1	92586	12/05/13 14:29	AMF	TAL SL

Client Sample ID: NS-B-2_SS

Lab Sample ID: 680-96214-3

Date Collected: 11/13/13 15:00

Matrix: Solid

Date Received: 11/15/13 09:15

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			86158	11/18/13 14:10	MTS	TAL SL
Total/NA	Analysis	7471B		1	87669	11/24/13 12:20	MTS	TAL SL
Total/NA	Analysis	6020A		10	92574	12/17/13 02:12	CCB	TAL SL
Total/NA	Analysis	6010C		5	93352	12/18/13 19:17	FLC	TAL SL
Total/NA	Prep	3050B			89692	12/04/13 10:55	WA1	TAL SL
Total/NA	Analysis	6010C		5	93540	12/19/13 20:16	FLC	TAL SL
Total/NA	Prep	3050B			87033	11/21/13 09:19	WA1	TAL SL
Total/NA	Analysis	6020A		20	94069	12/21/13 07:33	CCB	TAL SL

Client Sample ID: NS-B-2_SS

Lab Sample ID: 680-96214-3

Date Collected: 11/13/13 15:00

Matrix: Solid

Date Received: 11/15/13 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	86090	11/18/13 06:38	SDB	TAL SL
Soluble	Leach	DI Leach	DL		89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0	DL	5	92586	12/05/13 19:47	AMF	TAL SL
Soluble	Analysis	300.0	DL	100	92586	12/05/13 20:01	AMF	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Thin_Layer			90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	90524	12/09/13 20:42	LES	TAL SL
Total/NA	Prep	DPS-0			87450	11/22/13 14:11	RLS	TAL SL
Total/NA	Analysis	904.0		1	91104	12/11/13 10:59	MLK	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			87427	11/22/13 12:38	MJS	TAL SL
Total/NA	Analysis	901.1		1	92187	12/15/13 18:59	SMP	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	DPS-21			87447	11/22/13 13:48	RLS	TAL SL
Total/NA	Analysis	903.0		1	92650	12/17/13 08:47	RTM	TAL SL
Total/NA	Prep	ExtChrom			92431	12/16/13 13:26	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	94912	12/26/13 16:15	RTM	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	ExtChrom			92254	12/16/13 13:26	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	95411	12/30/13 13:50	RTM	TAL SL

Client Sample ID: NS-B-2_SUB

Lab Sample ID: 680-96214-4

Date Collected: 11/13/13 15:45

Matrix: Solid

Date Received: 11/15/13 09:15

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			86158	11/18/13 14:10	MTS	TAL SL
Total/NA	Analysis	7471B		1	87669	11/24/13 12:22	MTS	TAL SL
Total/NA	Prep	3050B			87033	11/21/13 09:19	WA1	TAL SL
Total/NA	Analysis	6020A		10	92574	12/17/13 02:19	CCB	TAL SL
Total/NA	Prep	3050B			89692	12/04/13 10:55	WA1	TAL SL
Total/NA	Analysis	6010C		5	93352	12/18/13 19:20	FLC	TAL SL
Total/NA	Analysis	6010C		5	93540	12/19/13 20:27	FLC	TAL SL
Total/NA	Analysis	Moisture		1	86090	11/18/13 06:38	SDB	TAL SL
Soluble	Leach	DI Leach			89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0		1	92586	12/05/13 14:58	AMF	TAL SL
Soluble	Leach	DI Leach	DL		89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	92586	12/05/13 20:15	AMF	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Thin_Layer			90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	90524	12/09/13 20:42	LES	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	DPS-0			87450	11/22/13 14:11	RLS	TAL SL
Total/NA	Analysis	904.0		1	91104	12/11/13 10:59	MLK	TAL SL

Client Sample ID: NS-B-2_SUB

Lab Sample ID: 680-96214-4

Date Collected: 11/13/13 15:45

Matrix: Solid

Date Received: 11/15/13 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			87427	11/22/13 12:38	MJS	TAL SL
Total/NA	Analysis	901.1		1	92032	12/13/13 15:38	RTM	TAL SL
Total/NA	Prep	DPS-21			87447	11/22/13 13:48	RLS	TAL SL
Total/NA	Analysis	903.0		1	92650	12/17/13 08:47	RTM	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	ExtChrom			92254	12/16/13 13:26	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	94546	12/24/13 17:35	RTM	TAL SL
Total/NA	Prep	ExtChrom			92431	12/16/13 13:26	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	94913	12/26/13 16:15	RTM	TAL SL

Client Sample ID: NS-B-1_SS

Lab Sample ID: 680-96214-5

Date Collected: 11/13/13 09:45

Matrix: Solid

Date Received: 11/15/13 09:15

Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			86158	11/18/13 14:10	MTS	TAL SL
Total/NA	Analysis	7471B		1	87669	11/24/13 12:23	MTS	TAL SL
Total/NA	Prep	3050B			87033	11/21/13 09:19	WA1	TAL SL
Total/NA	Analysis	6020A		10	92574	12/17/13 02:39	CCB	TAL SL
Total/NA	Analysis	6010C		5	93352	12/18/13 19:24	FLC	TAL SL
Total/NA	Prep	3050B			89692	12/04/13 10:55	WA1	TAL SL
Total/NA	Analysis	6010C		5	93540	12/19/13 20:31	FLC	TAL SL
Total/NA	Analysis	Moisture		1	86090	11/18/13 06:38	SDB	TAL SL
Soluble	Leach	DI Leach	DL		89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0	DL	50	92586	12/05/13 20:30	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0	DL2	500	92586	12/05/13 20:44	AMF	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Thin_Layer			90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	90524	12/09/13 20:42	LES	TAL SL
Total/NA	Prep	DPS-0			87450	11/22/13 14:11	RLS	TAL SL
Total/NA	Analysis	904.0		1	91104	12/11/13 10:59	MLK	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			87427	11/22/13 12:38	MJS	TAL SL
Total/NA	Analysis	901.1		1	92179	12/13/13 17:36	SMP	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	DPS-21			87447	11/22/13 13:48	RLS	TAL SL
Total/NA	Analysis	903.0		1	92650	12/17/13 08:47	RTM	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	ExtChrom			92438	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	94891	12/26/13 16:51	MLK	TAL SL
Total/NA	Prep	ExtChrom			92428	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	95199	12/27/13 20:53	MLK	TAL SL

Client Sample ID: NS-B-1_SUB

Lab Sample ID: 680-96214-6

Date Collected: 11/13/13 11:20

Matrix: Solid

Date Received: 11/15/13 09:15

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			86158	11/18/13 14:10	MTS	TAL SL
Total/NA	Analysis	7471B		1	87669	11/24/13 12:25	MTS	TAL SL
Total/NA	Prep	3050B			87033	11/21/13 09:19	WA1	TAL SL
Total/NA	Analysis	6020A		10	92574	12/17/13 02:46	CCB	TAL SL
Total/NA	Prep	3050B			89692	12/04/13 10:55	WA1	TAL SL
Total/NA	Analysis	6010C		5	93352	12/18/13 19:28	FLC	TAL SL
Total/NA	Analysis	6010C		5	93540	12/19/13 20:35	FLC	TAL SL
Total/NA	Analysis	Moisture		1	86090	11/18/13 06:38	SDB	TAL SL
Soluble	Leach	DI Leach			89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0		1	92586	12/05/13 15:27	AMF	TAL SL
Soluble	Leach	DI Leach	DL		89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0	DL	5	92586	12/05/13 20:59	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0	DL2	50	92586	12/05/13 21:13	AMF	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Thin_Layer			90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	90957	12/10/13 06:30	LES	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	DPS-0			87450	11/22/13 14:11	RLS	TAL SL
Total/NA	Analysis	904.0		1	91104	12/11/13 11:00	MLK	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			87427	11/22/13 12:38	MJS	TAL SL
Total/NA	Analysis	901.1		1	92180	12/13/13 17:36	SMP	TAL SL
Total/NA	Prep	DPS-21			87447	11/22/13 13:48	RLS	TAL SL
Total/NA	Analysis	903.0		1	92650	12/17/13 08:47	RTM	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	ExtChrom			92438	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	94892	12/26/13 16:51	MLK	TAL SL
Total/NA	Prep	ExtChrom			92428	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	95250	12/27/13 20:53	MLK	TAL SL

Client Sample ID: RINSATE

Lab Sample ID: 680-96214-7

Date Collected: 11/13/13 00:00

Matrix: Water

Date Received: 11/15/13 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sep			31731	12/12/13 14:53	CCC	TAL SAC
Total/NA	Analysis	1668C		1	33177	12/20/13 13:47	KSS	TAL SAC
Total/NA	Prep	7470A			86332	11/19/13 11:20	MTS	TAL SL
Total/NA	Analysis	7470A		1	86377	11/19/13 12:57	MTS	TAL SL
Total/NA	Prep	3010A			92546	12/16/13 17:03	FLC	TAL SL
Total/NA	Analysis	6010C		1	93352	12/18/13 18:24	FLC	TAL SL
Total/NA	Prep	3010A			92545	12/16/13 17:01	FLC	TAL SL
Total/NA	Analysis	6020A		1	93570	12/20/13 04:13	CCB	TAL SL

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: RINSATE
Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	86828	11/15/13 17:04	JCB	TAL SL
Total/NA	Prep	PrecSep_0			86143	11/18/13 13:55	RLS	TAL SL
Total/NA	Analysis	904.0		1	89753	12/04/13 11:07	RTM	TAL SL
Total/NA	Prep	Fill_Geo-21			86195	11/18/13 17:52	MJS	TAL SL
Total/NA	Analysis	901.1		1	90441	12/09/13 19:19	RTM	TAL SL
Total/NA	Prep	PrecSep-21			86142	11/18/13 13:48	RLS	TAL SL
Total/NA	Analysis	903.0		1	90958	12/10/13 06:36	RTM	TAL SL
Total/NA	Prep	Evaporation			92247	12/16/13 10:37	MJS	TAL SL
Total/NA	Analysis	900.0		1	93801	12/20/13 17:20	MLK	TAL SL
Total/NA	Prep	ExtChrom			92784	12/18/13 08:38	CEZ	TAL SL
Total/NA	Analysis	A-01-R		1	94824	12/26/13 17:00	MLK	TAL SL
Total/NA	Prep	ExtChrom			92798	12/18/13 08:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	94828	12/26/13 17:02	MLK	TAL SL

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	COC No: 680-51812-23158.1
Company: GEI Consultants, Inc.			Page: Page 1 of 1
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:		Job #: [illegible]
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104		
Email: abrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 68011884		
Site:	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_Total_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	P	J	F	N	N	X	
DD-8-5_SS	11-13-13	0-0.5	Drainage Ditches	1245	C/G	S				1				1	1							3	120, 60
DD-8-5_SUB	11-13-13	9-14	Drainage Ditches	1415	C/G	S				1				1								2	↓
																						0	
																						0	
																						0	
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																						0	
																						0	
																						0	
																						0	

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA
M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	11-14-13 0645	GEI	Jeffrey Shelkey	11/14/13 0645	GEI
Jeffrey Shelkey	11-14-13 1310	GEI	[signature]	11/14/13 1310	[illegible]
[signature]	11/14/13 1620 [illegible]	[illegible]	[signature]	11-15-13 0915	TASTL

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: [illegible]

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 515.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96114
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:	Analysis Requested		
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

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

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil/waste/oil, BT=Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Dnions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of Containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	N	N	N	N	N		
NS-B-2_SS	11-13-13	0-05	Northern Storage Area	1500	C/G	S			1	1	2			1								5	2x500, 3x120
NS-B-2_SUB	11-13-13	3-8	Northern Storage Area	1545	C/G	S			1	1	2			1								5	1, #x120, 60
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client, Disposal By Lab, Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congenum jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 11-14-13 0645	Company: GEI	Received by: Jeffrey Smith	Date/Time: 11/14/13 0645 Company: GEI
Relinquished by:	Date/Time: 11/14/13 1310	Company: GEI	Received by:	Date/Time: 11/14/13 1310 Company: UPS
Relinquished by:	Date/Time: 11/14/13 1600	Company:	Received by: Ali Clark	Date/Time: 11.15.13 0915 Company: TA STL

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.2 3.7

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 65-96214
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site: TIMET	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	900, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	8010C, 8020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code				N	N	N	N	N	N	N	N	P	J	F	N	N		
NS-B-1_SS	11.13.13	0945	Northern Storage Area	[illegible]	C/G	S			1	1	2			1								S	2x500, 3x120
NS-B-1_SUB	11-13-13	1120	Northern Storage Area	1120	C/G	S			1	1	2			1								S	2x500, 2x120, 60
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive *Until GEI releases for disposal.*

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11-14-13 0645	GEI	Jeffrey B Shelkey	11-14-13 0645	GEI
Jeffrey Shelkey	11-14-13 1310	GEI	[signature]	11/14/13 1310	TA
[signature]	11/14/13 1400 PM	TA	[signature]	11-15-13 0915	TASR

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.2° / 3.7°

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51811-23157.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-16214
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	A01R_U - (MOD) Local Method (Radionuclides)	A01R_Th - Standard Target List (Radionuclides)	A01R_Ra - (MOD) NORM Target List (Radionuclides)	904.0 - Standard Target List (Radionuclides)	903.0 - Standard Target List (Radionuclides)	300 - (MOD) Local Method (Anions)	6010C, 6020A, 7470A (Metals)	900.0 - Standard Target List (Radionuclides)	8260C - OLM 4.2 (VOCs)	1668C (PCB Congeners)	8082A (PCB Aroclors)	8270D SVOCs (Project list to include PAHs)	8280 (Dioxins)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	D	D	D	D	N	D	D	A	N	N	N		28	1BS
BIN DATE	11/13/13		G	W	N	N	1	1	1	1	1	1	1	1		2			2	12	5xL, 500p, 2x250p

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive **Until GEI releases for disposal.**

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

Special Instructions/QC Requirements:

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	
Relinquished by: Kathy B. Shelley	Date/Time: 11/14/13 1310	Company: GEI	Received by:	Date/Time: 11/14/13 1210	Company: TA
Relinquished by:	Date/Time: 11/14/13 [illegible]	Company:	Received by: Jill Clark	Date/Time: 11-15-13 0915	Company: TA SR
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96214-1

Login Number: 96214

List Number: 1

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

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

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96214-1

Login Number: 96214
List Number: 1
Creator: Johnson, DeAndre H

List Source: TestAmerica Sacramento
List Creation: 11/15/13 12:29 PM

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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96214-1

Login Number: 96214
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 11/15/13 12:39 PM

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-14 *
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	06-30-14
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	04-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	03-31-14
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14 *
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia DEP	State Program	3	94	06-30-14
West Virginia DHHR	State Program	3	9950C	12-31-13 *
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

Laboratory: TestAmerica Sacramento

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

* Expired certification is currently pending renewal and is considered valid.

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Laboratory: TestAmerica Sacramento (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NE-OS-22-13	01-31-14
A2LA	DoD ELAP		2928-01	03-31-14
Alaska (UST)	State Program	10	UST-055	02-03-14 *
Arizona	State Program	9	AZ0708	08-11-14
Arkansas DEQ	State Program	6	88-0691	06-17-14
California	NELAP	9	1119CA	01-31-14
Colorado	State Program	8	N/A	08-31-14
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-14
Guam	State Program	9	N/A	08-31-14
Hawaii	State Program	9	N/A	01-31-14
Illinois	NELAP	5	200060	03-17-15
Kansas	NELAP	7	E-10375	10-31-14
Louisiana	NELAP	6	30612	06-30-14
Michigan	State Program	5	9947	01-31-14
Nebraska	State Program	7	NE-OS-22-13	01-31-14
Nevada	State Program	9	CA44	07-31-14
New Jersey	NELAP	2	CA005	06-30-14
New York	NELAP	2	11666	03-31-14
Northern Mariana Islands	State Program	9	MP0007	02-01-14
Oregon	NELAP	10	CA200005	03-28-14
Pennsylvania	NELAP	3	68-01272	03-31-14
South Carolina	State Program	4	87014	06-30-14
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-14
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	01-31-14
Washington	State Program	10	C581	05-05-14
West Virginia DHHR	State Program	3	9930C	02-03-14 *
Wyoming	State Program	8	8TMS-Q	01-31-14

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-14
California	NELAP	9	09266CA	03-31-14
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-14
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14
Kentucky (DW)	State Program	4	90125	12-31-13 *
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	LA140007	12-31-14
Maryland	State Program	3	310	09-30-14
Missouri	State Program	7	780	06-30-14
Nevada	State Program	9	MO000542013-1	07-31-14
New Jersey	NELAP	2	MO002	06-30-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New Mexico	State Program	6		06-30-10 *
New York	NELAP	2	11616	04-01-14
North Dakota	State Program	8	R207	06-30-14
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	2013-049	08-31-14
Pennsylvania	NELAP	3	68-00540	02-28-14
South Carolina	State Program	4	85002001	06-30-14
Texas	NELAP	6	T104704193-13-6	07-31-14
USDA	Federal		P330-07-00122	01-03-14 *
USEPA Reg V SDWA	Federal	1	WG-15J	08-30-14
Utah	NELAP	8	MO000542013-5	07-31-14
Virginia	NELAP	3	2236	06-14-14
Washington	State Program	10	C592	08-30-14
West Virginia DEP	State Program	3	381	02-28-14 *

* Expired certification is currently pending renewal and is considered valid.

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-96214-3	NS-B-2_SS	121 X
680-96214-3 DU	NS-B-2_SS	115 X
680-96214-4	NS-B-2_SUB	111 X
680-96214-5	NS-B-1_SS	115 X
680-96214-6	NS-B-1_SUB	107
LCS 160-87447/2-A	Lab Control Sample	109
MB 160-87447/1-A	Method Blank	102

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-96214-7	RINSATE	101
680-96214-7 DU	RINSATE	93.2
LCS 160-86142/2-A	Lab Control Sample	100
MB 160-86142/1-A	Method Blank	98.2

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-96214-3	NS-B-2_SS	121 X	83.0
680-96214-3 DU	NS-B-2_SS	115 X	80.7
680-96214-4	NS-B-2_SUB	111 X	81.9
680-96214-5	NS-B-1_SS	115 X	84.9
680-96214-6	NS-B-1_SUB	107	80.4
LCS 160-87450/2-A	Lab Control Sample	109	82.6
MB 160-87450/1-A	Method Blank	102	85.6

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-96214-7	RINSATE	101	90.1

Method: 904.0 - Radium-228 (GFPC) (Continued)

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

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
680-96214-7 DU	RINSATE	93.2	89.7
LCS 160-86143/2-A	Lab Control Sample	100	89.7
MB 160-86143/1-A	Method Blank	98.2	87.1

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Th-229 (30-110)
680-96214-3	NS-B-2_SS	87.3
680-96214-4	NS-B-2_SUB	78.5
680-96214-5	NS-B-1_SS	79.3
680-96214-6	NS-B-1_SUB	80.6
LCS 160-92254/2-A	Lab Control Sample	92.5
LCS 160-92428/2-A	Lab Control Sample	90.0
MB 160-92254/1-A	Method Blank	82.0
MB 160-92428/1-A	Method Blank	92.9

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Th-229 (30-110)
680-96214-7	RINSATE	92.2
LCS 160-92784/2-A	Lab Control Sample	66.7
LCSD 160-92784/3-A	Lab Control Sample Dup	64.8
MB 160-92784/1-A	Method Blank	73.7

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	U-232 (30-110)
680-96214-3	NS-B-2_SS	86.1
680-96214-4	NS-B-2_SUB	82.8
680-96214-5	NS-B-1_SS	86.1
680-96214-6	NS-B-1_SUB	89.9

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

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

		Percent Yield (Acceptance Limits)							
		U-232							
Lab Sample ID	Client Sample ID	(30-110)							
LCS 160-92431/2-A	Lab Control Sample	98.7							
LCS 160-92438/2-A	Lab Control Sample	90.4							
MB 160-92431/1-A	Method Blank	90.6							
MB 160-92438/1-A	Method Blank	92.8							

Tracer/Carrier Legend

U-232 = Uranium-232

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)							
		U-232							
Lab Sample ID	Client Sample ID	(30-110)							
680-96214-7	RINSATE	81.3							
LCS 160-92798/2-A	Lab Control Sample	75.3							
LCSD 160-92798/3-A	Lab Control Sample Dup	63.9							
MB 160-92798/1-A	Method Blank	75.6							

Tracer/Carrier Legend

U-232 = Uranium-232

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: DD-B-5_SS — Lab Sample ID: 680-96214-1

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		8.8	TEQ
Total TEQ					pg/g		8.8	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**260**	**G**	9.4	9.4	pg/g	0.0001	**0.026**	1668C
PCB-81	**11**	**G**	9.2	9.2	pg/g	0.0003	**0.0033**	1668C
PCB-105	**1400**	**G**	33	33	pg/g	0.00003	**0.042**	1668C
PCB-114	**58**	**G**	31	31	pg/g	0.00003	**0.0017**	1668C
PCB-118	**2500**	**G B**	30	30	pg/g	0.00003	**0.075**	1668C
PCB-123	**41**	**G**	31	31	pg/g	0.00003	**0.0012**	1668C
PCB-126	**86**	**G**	36	36	pg/g	0.1	**8.6**	1668C
PCB-156/157	**740**	**G**	11	11	pg/g	0.00003	**0.022**	1668C
PCB-167	**270**	**G**	8.6	8.6	pg/g	0.00003	**0.0081**	1668C
PCB-169	10	U G	10	10	pg/g	0.03	0.00	1668C
PCB-189	**92**		4.1	1.4	pg/g	0.00003	**0.0028**	1668C

Client Sample ID: RINSATE — Lab Sample ID: 680-96214-7

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	4.8	U	19	4.8	pg/L	0.0001	0.00	1668C
PCB-81	4.6	U	19	4.6	pg/L	0.0003	0.00	1668C
PCB-105	**6.2**	**J B**	19	3.7	pg/L	0.00003	**0.00019**	1668C
PCB-114	3.3	U	19	3.3	pg/L	0.00003	0.00	1668C
PCB-118	**12**	**J B**	19	3.2	pg/L	0.00003	**0.00036**	1668C
PCB-123	3.2	U	19	3.2	pg/L	0.00003	0.00	1668C
PCB-126	4.0	U	19	4.0	pg/L	0.1	0.00	1668C
PCB-156/157	4.2	U	38	4.2	pg/L	0.00003	0.00	1668C
PCB-167	3.3	U	19	3.3	pg/L	0.00003	0.00	1668C
PCB-169	4.4	U	19	4.4	pg/L	0.03	0.00	1668C
PCB-189	6.6	U	19	6.6	pg/L	0.00003	0.00	1668C

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-202L	PCB-3L	PCB-118L	PCB-126L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)
680-96214-1	DD-B-5_SS	35	53	71	73	62	40	73	77
MB 320-32403/1-A	Method Blank	32	48	56	56	51	39	58	60

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-206L	PCB-169L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(5-145)	(5-145)	(10-145)	(5-145)	(10-145)	(10-145)
680-96214-1	DD-B-5_SS	74	98	67	44	50	35	96	92
MB 320-32403/1-A	Method Blank	68	85	56	36	39	32	82	78

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)	(10-145)
680-96214-1	DD-B-5_SS	66	79	74	75	33	41	81	81
MB 320-32403/1-A	Method Blank	60	71	57	67	30	36	60	61

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)
680-96214-1	DD-B-5_SS	82	59
MB 320-32403/1-A	Method Blank	75	48

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-202L = PCB-202L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-206L = PCB-206L
PCB-169L = PCB-169L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-32403/2-A	Lab Control Sample	35	48	60	59	40	60	61	52

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-32403/2-A	Lab Control Sample	87	73	56	39	42	31	87	81

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-32403/2-A	Lab Control Sample	63	77	60	73	34	38 *	60	61

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-205L	PCB-155L						
Lab Sample ID	Client Sample ID	(40-145)	(40-145)						
LCS 320-32403/2-A	Lab Control Sample	81	49						

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-1L	PCB-3L	PCB-4L	PCB-15L	PCB-19L	PCB-37L	PCB-54L	PCB-77L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(10-145)
680-96214-7	RINSATE	48	53	60	63	67	62	62	66

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-1L (5-145)	PCB-3L (5-145)	PCB-4L (5-145)	PCB-15L (5-145)	PCB-19L (5-145)	PCB-37L (5-145)	PCB-54L (5-145)	PCB-77L (10-145)
MB 320-31731/1-A	Method Blank	53	60	69	74	90	65	79	64

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-81L (10-145)	PCB-104L (10-145)	PCB-105L (10-145)	PCB-114L (10-145)	PCB-118L (10-145)	PCB-123L (10-145)	PCB-126L (10-145)	PCB-155L (10-145)
680-96214-7	RINSATE	64	58	69	69	69	70	70	63
MB 320-31731/1-A	Method Blank	64	71	73	73	74	73	69	73

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	CB-156L/15 (10-145)	PCB-167L (10-145)	PCB-169L (10-145)	PCB-188L (10-145)	PCB-189L (10-145)	PCB-202L (10-145)	PCB-205L (10-145)	PCB-206L (10-145)
680-96214-7	RINSATE	72	70	72	81	72	86	77	85
MB 320-31731/1-A	Method Blank	73	75	70	102	81	107	85	95

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-208L (10-145)	PCB-209L (10-145)						
680-96214-7	RINSATE	86	82						
MB 320-31731/1-A	Method Blank	100	95						

Surrogate Legend

PCB-1L = PCB-1L
PCB-3L = PCB-3L
PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-19L = PCB-19L
PCB-37L = PCB-37L
PCB-54L = PCB-54L
PCB-77L = PCB-77L
PCB-81L = PCB-81L
PCB-104L = PCB-104L
PCB-105L = PCB-105L
PCB-114L = PCB-114L
PCB-118L = PCB-118L
PCB-123L = PCB-123L
PCB-126L = PCB-126L
PCB-155L = PCB-155L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-169L = PCB-169L
PCB-188L = PCB-188L
PCB-189L = PCB-189L
PCB-202L = PCB-202L
PCB-205L = PCB-205L
PCB-206L = PCB-206L
PCB-208L = PCB-208L
PCB-209L = PCB-209L

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-31731/2-A	Lab Control Sample	58	66	76	76	51	77	75	99
LCSD 320-31731/3-A	Lab Control Sample Dup	68	74	76	76	57	76	75	99

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-31731/2-A	Lab Control Sample	75	95	63	73	95	71	74	74
LCSD 320-31731/3-A	Lab Control Sample Dup	71	91	67	82	97	79	72	72

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-31731/2-A	Lab Control Sample	96	79	76	100	43	69	69	71
LCSD 320-31731/3-A	Lab Control Sample Dup	91	76	75	95	51	73	68	69

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)
LCS 320-31731/2-A	Lab Control Sample	87	73
LCSD 320-31731/3-A	Lab Control Sample Dup	84	75

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

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ANALYTICAL REPORT

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TestAmerica Job ID: 680-96439-1
Client Project/Site: TIMET
Revision: 2

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

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

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Job ID: 680-96439-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: GEI Consultants, Inc.

Project: TIMET

Report Number: 680-96439-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 11/22/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 1.5º C, 1.7º C, 2.0º C, 2.1º C and 2.2º C.

SEMIVOLATILE ORGANIC COMPOUNDS (SOLID)

Samples S17-SS-1_SS (680-96439-1), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-2_SS (680-96439-14) and S17-SS-2_SS (680-96439-16) were analyzed for Semivolatile Organic Compounds (Solid) in accordance with EPA SW846 Method 8270D. The samples were prepared on 12/02/2013 and analyzed on 12/03/2013 and 12/04/2013.

Pyrene failed the recovery criteria high for LCS 160-88803/2-A.

Internal standard response for the following samples exceeded the lower control limit: FM-SS-2_SS (680-96439-4). As such, the sample results may be biased high.

Several analytes failed the recovery criteria high for the MS/MSD of sample BY-SS-3_SSMS/MSD (680-96439-11) in batch 160-89755.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (AQUEOUS)

Sample RINSATE (680-96439-22) was analyzed for Semivolatile Organic Compounds (Aqueous) in accordance with EPA SW846 Method 8270D. The samples were prepared on 11/22/2013 and analyzed on 11/27/2013.

Phenol-d5 (Surr) failed the surrogate recovery criteria high for RINSATE (680-96439-22).

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), BY-SS-1_SS (680-96439-8), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-3_SS (680-96439-13), J2-SS-2_SS (680-96439-14), J2-SS-1_SS (680-96439-15) and S17-SS-2_SS (680-96439-16) were analyzed for chlorinated biphenyl congeners in accordance with epa method 1668C. The samples were prepared on 12/18/2013, 12/19/2013 and 12/21/2013 and analyzed on

Job ID: 680-96439-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

01/05/2014, 01/12/2014, 01/18/2014, 01/19/2014, 01/22/2014, 02/06/2014, 02/07/2014, 02/09/2014 and 02/10/2014.

Several analytes were detected in method blank MB 320-32172/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. PCB-1 was detected in method blank MB 320-32277/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 320-32277/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. PCB-1 was detected in method blank MB 320-32403/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 320-32403/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

PCB-105 and PCB-118 failed the recovery criteria high for the MS of sample BY-SS-3_SSMS (680-96439-11) in batch 320-34287.

PCB-118 and PCB-209 failed the recovery criteria low for the MSD of sample BY-SS-3_SSMSD (680-96439-11) in batch 320-34287.

PCB-118, PCB-206 and PCB-209 failed the recovery criteria high for the MS of sample FM-SS-1_SSMS (680-96439-2) in batch 320-33200.

For the MSD of sample FM-SS-1_SSMSD (680-96439-2) in batch 320-33200, PCB-209 failed the recovery criteria low. PCB-15 and PCB-37 failed the recovery criteria high. Also, PCB-15 exceeded the RPD limit.

The concentration of the PCB 209 analyte associated with the following samples exceeded the instrument calibration range: J2-SS-1_SS (680-96439-15), NS-SS-1_SS (680-96439-9). This analyte has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The following sample required a dilution of 50 times the original extract, which was then refortified with the isotope dilution analytes (IDAs) for target analyte quantitation. The complex dilution was required to bring the concentration of the target analyte, PCB 209, within the linear range of the instrument detector: J2-SS-1_SS (680-96439-15). Elevated reporting limits (RLs) are provided.

Reanalysis of the following samples BY-SS-3_SS (680-96439-11), BY-SS-3_SS (680-96439-11 MS), BY-SS-3_SS (680-96439-11 MSD) was performed outside of the analytical holding time. The samples were originally analyzed at a 20 times dilution within the analytical holding time. The reanalysis was performed on the undiluted samples. Both injections will be reported; the initial diluted sample results will be reported as the primary result.

The concentration of DCB - Decachlorobiphenyl associated with the following samples exceeded the instrument calibration range: FM-SS-1_SS (680-96439-2), FM-SS-1_SS (680-96439-2 MS), FM-SS-1_SS (680-96439-2 MSD), FM-SS-1_SS DUP (680-96439-3). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The concentration of PCB-209 associated with the following sample exceeded the instrument calibration range: FM-SS-3_SS (680-96439-6). This analyte has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The concentration of PCB-209 associated with the following samples exceeded the instrument calibration range: FM-SS-4_SS (680-96439-7). This analyte has been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The following sample required a complex dilution and re-fortification of the Isotope Dilution Analyte (IDA) standards due to elevated concentrations of PCB-209: FM-SS-4_SS (680-96439-7). Elevated reporting limits (RLs) are provided.

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Laboratory: TestAmerica Savannah (Continued)

The concentration of PCB-11 associated with the following sample exceeded the instrument calibration range: FM-SS-4_SS (680-96439-7). This analyte has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: J2-SS-1_SS (680-96439-15). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Samples FM-SS-2_SS (680-96439-4)[20X], FM-SS-2_SS DUP (680-96439-5)[20X], FM-SS-3_SS (680-96439-6)[20X], BY-SS-1_SS (680-96439-8)[20X], NS-SS-1_SS (680-96439-9)[10X], BY-SS-3_SS (680-96439-11)[20X], J2-SS-3_SS (680-96439-13)[25X], J2-SS-2_SS (680-96439-14)[10X] and S17-SS-2_SS (680-96439-16)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Sample RINSATE (680-96439-22) was analyzed for chlorinated biphenyl congeners in accordance with EPA method 1668C. The samples were prepared on 12/12/2013 and analyzed on 12/20/2013.

Several analytes were detected in method blank MB 320-31731/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

DIOXINS AND FURANS

Samples S17-SS-1_SS (680-96439-1), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-2_SS (680-96439-14) and S17-SS-2_SS (680-96439-16) were analyzed for dioxins and furans in accordance with EPA Method 8290A. The samples were prepared on 12/18/2013 and 12/19/2013 and analyzed on 01/07/2014, 01/08/2014, 01/14/2014, 01/16/2014 and 01/29/2014.

1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDD and OCDF were detected in method blank MB 320-32158/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 320-32264/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Samples FM-SS-3_SS (680-96439-6)[20X] and NS-SS-1_SS (680-96439-9)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the dioxins and furans analysis.

All other quality control parameters were within the acceptance limits.

DIOXINS AND FURANS

Sample RINSATE (680-96439-22) was analyzed for dioxins and furans in accordance with EPA SW-846 8290A. The samples were prepared on 12/05/2013 and analyzed on 12/27/2013.

Job ID: 680-96439-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Several analytes were detected in method blank MB 320-31203/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the dioxins and furans analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), BY-SS-1_SS (680-96439-8), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-3_SS (680-96439-13), J2-SS-2_SS (680-96439-14), J2-SS-1_SS (680-96439-15), BY-SS-4_SS (680-96439-17), NS-SS-4_SS (680-96439-18), NS-SS-3_SS (680-96439-19), NS-SS-2_SS (680-96439-20) and BY-SS-2_SS (680-96439-21) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/03/2013 and analyzed on 12/03/2013, 12/10/2013 and 12/31/2013.

Antimony, Barium, Calcium and Potassium failed the recovery criteria low for the MS of sample BY-SS-3_SSMS (680-96439-11) in batch 160-95650. Several analytes failed the recovery criteria high.

Several analytes failed the recovery criteria low for the MSD of sample BY-SS-3_SSMSD (680-96439-11) in batch 160-95650. Aluminum, Iron, Magnesium and Titanium failed the recovery criteria high.

Antimony and Vanadium failed the recovery criteria low for the MS of sample FM-SS-1_SSMS (680-96439-2) in batch 160-95650. Several analytes failed the recovery criteria high.

For the MSD of sample FM-SS-1_SSMSD (680-96439-2) in batch 160-95650, Antimony failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, Calcium exceeded the RPD limit.

Samples FM-SS-1_SS (680-96439-2)[5X], FM-SS-1_SS DUP (680-96439-3)[5X], FM-SS-2_SS (680-96439-4)[5X], FM-SS-2_SS DUP (680-96439-5)[5X], FM-SS-3_SS (680-96439-6)[5X], FM-SS-4_SS (680-96439-7)[5X], BY-SS-1_SS (680-96439-8)[5X], NS-SS-1_SS (680-96439-9)[5X], NS-SS-5_SS (680-96439-10)[5X], BY-SS-3_SS (680-96439-11)[5X], BY-SS-3_SS DUP (680-96439-12)[25X], J2-SS-3_SS (680-96439-13)[5X], J2-SS-2_SS (680-96439-14)[5X], J2-SS-1_SS (680-96439-15)[25X], BY-SS-4_SS (680-96439-17)[5X], NS-SS-4_SS (680-96439-18)[5X], NS-SS-3_SS (680-96439-19)[50X], NS-SS-2_SS (680-96439-20)[25X], BY-SS-2_SS (680-96439-21)[2X] and BY-SS-2_SS (680-96439-21)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Sample RINSATE (680-96439-22) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/18/2013 and analyzed on 12/20/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), BY-SS-1_SS (680-96439-8), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-3_SS (680-96439-13), J2-SS-2_SS (680-96439-14), J2-SS-1_SS (680-96439-15), BY-SS-4_SS (680-96439-17), NS-SS-4_SS (680-96439-18), NS-SS-3_SS (680-96439-19), NS-SS-2_SS (680-96439-20) and BY-SS-2_SS (680-96439-21) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 12/03/2013 and analyzed on 12/25/2013 and 12/26/2013.

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Laboratory: TestAmerica Savannah (Continued)

Niobium failed the recovery criteria low for the MS/MSD of sample BY-SS-3_SSMS/MSD (680-96439-11) in batch 160-94704.

Niobium failed the recovery criteria low for the MS/MSD of sample FM-SS-1_SSMS/MSD (680-96439-2) in batch 160-94704.

Samples FM-SS-1_SS (680-96439-2)[10X], FM-SS-1_SS DUP (680-96439-3)[10X], FM-SS-2_SS (680-96439-4)[10X], FM-SS-2_SS DUP (680-96439-5)[10X], FM-SS-3_SS (680-96439-6)[10X], FM-SS-3_SS (680-96439-6)[50X], FM-SS-4_SS (680-96439-7)[10X], BY-SS-1_SS (680-96439-8)[10X], NS-SS-1_SS (680-96439-9)[10X], NS-SS-5_SS (680-96439-10)[10X], BY-SS-3_SS (680-96439-11)[10X], BY-SS-3_SS DUP (680-96439-12)[10X], J2-SS-3_SS (680-96439-13)[10X], J2-SS-2_SS (680-96439-14)[10X], J2-SS-1_SS (680-96439-15)[10X], J2-SS-1_SS (680-96439-15)[20X], BY-SS-4_SS (680-96439-17)[10X], NS-SS-4_SS (680-96439-18)[10X], NS-SS-3_SS (680-96439-19)[10X], NS-SS-2_SS (680-96439-20)[10X], NS-SS-2_SS (680-96439-20)[50X] and BY-SS-2_SS (680-96439-21)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Sample RINSATE (680-96439-22) was analyzed for Metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 12/18/2013 and analyzed on 12/26/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample RINSATE (680-96439-22) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 11/27/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), BY-SS-1_SS (680-96439-8), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-3_SS (680-96439-13), J2-SS-2_SS (680-96439-14), J2-SS-1_SS (680-96439-15), BY-SS-4_SS (680-96439-17), NS-SS-4_SS (680-96439-18), NS-SS-3_SS (680-96439-19), NS-SS-2_SS (680-96439-20) and BY-SS-2_SS (680-96439-21) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 11/26/2013 and analyzed on 11/27/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

ANIONS BY IC

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), BY-SS-1_SS (680-96439-8), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-3_SS (680-96439-13), J2-SS-2_SS (680-96439-14), J2-SS-1_SS (680-96439-15), BY-SS-4_SS (680-96439-17) and BY-SS-2_SS (680-96439-21) were analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were leached on 12/09/2013 and 12/18/2013 and analyzed on 12/09/2013, 12/10/2013, 12/18/2013 and 12/19/2013.

Sulfate failed the recovery criteria low for the MS of sample BY-SS-3_SSMS (680-96439-11) in batch 160-93483.

Job ID: 680-96439-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Sulfate and Chloride failed the recovery criteria low for the MSD of sample BY-SS-3_SSMSD (680-96439-11) in batch 160-93481.

Sulfate failed the recovery criteria low for the MS of sample FM-SS-1_SSMS (680-96439-2) in batch 160-93483.

Nitrate as N failed the recovery criteria low for the MSD of sample FM-SS-1_SSMSD (680-96439-2) in batch 160-93483. Sulfate failed the recovery criteria high.

Samples FM-SS-1_SS (680-96439-2)[100X], FM-SS-1_SS (680-96439-2)[20X], FM-SS-1_SS DUP (680-96439-3)[100X], FM-SS-2_SS (680-96439-4)[100X], FM-SS-2_SS (680-96439-4)[20X], FM-SS-2_SS DUP (680-96439-5)[20X], FM-SS-3_SS (680-96439-6)[100X], FM-SS-3_SS (680-96439-6)[20X], FM-SS-4_SS (680-96439-7)[100X], FM-SS-4_SS (680-96439-7)[20X], BY-SS-1_SS (680-96439-8)[20X], BY-SS-1_SS (680-96439-8)[200X], NS-SS-1_SS (680-96439-9)[20X], BY-SS-3_SS (680-96439-11)[20X], BY-SS-3_SS (680-96439-11)[200X], BY-SS-3_SS DUP (680-96439-12)[20X], BY-SS-3_SS DUP (680-96439-12)[200X], J2-SS-3_SS (680-96439-13)[20X], J2-SS-3_SS (680-96439-13)[200X], J2-SS-2_SS (680-96439-14)[20X], J2-SS-2_SS (680-96439-14)[500X], J2-SS-1_SS (680-96439-15)[20X], J2-SS-1_SS (680-96439-15)[200X], BY-SS-4_SS (680-96439-17)[20X], BY-SS-4_SS (680-96439-17)[200X], BY-SS-2_SS (680-96439-21)[20X], BY-SS-2_SS (680-96439-21)[200X] and BY-SS-2_SS (680-96439-21)[500X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

ANIONS BY IC

Sample RINSATE (680-96439-22) was analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were analyzed on 11/22/2013.

No difficulties were encountered during the Anions analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/MOISTURE

Samples S17-SS-1_SS (680-96439-1), FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), BY-SS-1_SS (680-96439-8), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-3_SS (680-96439-13), J2-SS-2_SS (680-96439-14), J2-SS-1_SS (680-96439-15), S17-SS-2_SS (680-96439-16), BY-SS-4_SS (680-96439-17), NS-SS-4_SS (680-96439-18), NS-SS-3_SS (680-96439-19), NS-SS-2_SS (680-96439-20) and BY-SS-2_SS (680-96439-21) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/23/2013.

No difficulties were encountered during the % solids/moisture analysis.

All quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12) and J2-SS-2_SS (680-96439-14) were analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were leached on 11/22/2013, and prepared and analyzed on 12/23/2013.

Gross Beta was detected in method blank MB 160-94280/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the radioactivity analysis.

All other quality control parameters were within the acceptance limits.

Job ID: 680-96439-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Sample RINSATE (680-96439-22) was analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were prepared on 12/27/2013 and analyzed on 12/30/2013.

No difficulties were encountered during the gross alpha & beta analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226 AND OTHER GAMMA EMITTERS (GS)

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12) and J2-SS-2_SS (680-96439-14) were analyzed for Radium-226 and other gamma emitters (GS) in accordance with EPA Method 901.1. The samples were leached on 11/22/2013, prepared on 11/26/2013 and analyzed on 12/18/2013.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

GAMMA EMITTERS

Sample RINSATE (680-96439-22) was analyzed for Gamma Emitters in accordance with 901.1. The samples were prepared on 12/09/2013 and analyzed on 01/01/2014.

No difficulties were encountered during the Gamma Emitters analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226 (GFPC)

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12) and J2-SS-2_SS (680-96439-14) were analyzed for Radium-226 (GFPC) in accordance with EPA Method 903.0. The samples were leached on 11/22/2013, prepared on 11/26/2013 and analyzed on 12/24/2013.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226

Sample RINSATE (680-96439-22) was analyzed for Radium-226 in accordance with EPA Method 903.0. The samples were prepared on 11/25/2013 and analyzed on 12/17/2013.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12) and J2-SS-2_SS (680-96439-14) were analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were leached on 11/22/2013, prepared on 11/26/2013 and analyzed on 12/20/2013.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

Job ID: 680-96439-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

RADIUM-228 (GFPC)

Sample RINSATE (680-96439-22) was analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were prepared on 11/25/2013 and analyzed on 12/11/2013.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC THORIUM

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12) and J2-SS-2_SS (680-96439-14) were analyzed for Isotopic Thorium in accordance with A01R_Th. The samples were leached on 11/22/2013, prepared on 12/16/2013 and 12/24/2013 and analyzed on 01/04/2014 and 12/27/2013.

Thorium-230 was detected in method blank MB 160-92428/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the thorium analysis.

All other quality control parameters were within the acceptance limits.

THORIUM

Sample RINSATE (680-96439-22) was analyzed for Thorium in accordance with A01R_Th. The samples were prepared on 12/24/2013 and analyzed on 12/30/2013.

No difficulties were encountered during the Thorium analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC URANIUM

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12) and J2-SS-2_SS (680-96439-14) were analyzed for Isotopic Uranium in accordance with A01R_U. The samples were leached on 11/22/2013, prepared on 12/16/2013 and 12/24/2013 and analyzed on 01/04/2014 and 12/26/2013.

No difficulties were encountered during the uranium analysis.

All quality control parameters were within the acceptance limits.

URANIUM

Sample RINSATE (680-96439-22) was analyzed for Uranium in accordance with A01R_U. The samples were prepared on 01/02/2014 and analyzed on 01/04/2014.

No difficulties were encountered during the Uranium analysis.

All quality control parameters were within the acceptance limits.

Report revised 3/26/2014 to correct flags applied to 1668 data.

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-96439-1	S17-SS-1_SS	Solid	11/21/13 12:30	11/22/13 09:45
680-96439-2	FM-SS-1_SS	Solid	11/20/13 12:30	11/22/13 09:45
680-96439-3	FM-SS-1_SS DUP	Solid	11/20/13 12:30	11/22/13 09:45
680-96439-4	FM-SS-2_SS	Solid	11/20/13 12:00	11/22/13 09:45
680-96439-5	FM-SS-2_SS DUP	Solid	11/20/13 12:00	11/22/13 09:45
680-96439-6	FM-SS-3_SS	Solid	11/20/13 13:00	11/22/13 09:45
680-96439-7	FM-SS-4_SS	Solid	11/20/13 14:20	11/22/13 09:45
680-96439-8	BY-SS-1_SS	Solid	11/20/13 15:10	11/22/13 09:45
680-96439-9	NS-SS-1_SS	Solid	11/20/13 09:25	11/22/13 09:45
680-96439-10	NS-SS-5_SS	Solid	11/20/13 09:50	11/22/13 09:45
680-96439-11	BY-SS-3_SS	Solid	11/20/13 10:10	11/22/13 09:45
680-96439-12	BY-SS-3_SS DUP	Solid	11/20/13 10:10	11/22/13 09:45
680-96439-13	J2-SS-3_SS	Solid	11/21/13 08:00	11/22/13 09:45
680-96439-14	J2-SS-2_SS	Solid	11/21/13 08:25	11/22/13 09:45
680-96439-15	J2-SS-1_SS	Solid	11/21/13 08:55	11/22/13 09:45
680-96439-16	S17-SS-2_SS	Solid	11/21/13 12:00	11/22/13 09:45
680-96439-17	BY-SS-4_SS	Solid	11/20/13 15:40	11/22/13 09:45
680-96439-18	NS-SS-4_SS	Solid	11/20/13 14:44	11/22/13 09:45
680-96439-19	NS-SS-3_SS	Solid	11/20/13 15:05	11/22/13 09:45
680-96439-20	NS-SS-2_SS	Solid	11/20/13 14:55	11/22/13 09:45
680-96439-21	BY-SS-2_SS	Solid	11/20/13 15:25	11/22/13 09:45
680-96439-22	RINSATE	Water	11/21/13 11:30	11/22/13 09:45

Method Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
1668C	Chlorinated Biphenyl Congeners (HRGC/HRMS)	EPA	TAL SAC
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL

Protocol References:

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits
*	ISTD response or retention time outside acceptable limits
F	MS/MSD Recovery and/or RPD exceeds the control limits
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Dioxin

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.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
U	Indicates the analyte was analyzed for but not detected.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
F1	MS and/or MSD Recovery exceeds the 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.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
*	Isotope Dilution analyte exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
F	MS/MSD Recovery and/or RPD exceeds the 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.
F1	MS and/or MSD Recovery exceeds the control limits
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits

General Chemistry

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the 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.
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Carrier exceeds control limit

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
CNF	Contains no Free Liquid

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

Client Sample ID: S17-SS-1_SS
Date Collected: 11/21/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-1
Matrix: Solid
Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Acenaphthylene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Benzo[a]anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Benzo[b]fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Benzo[k]fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Benzo[g,h,i]perylene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Benzo[a]pyrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Chrysene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Dibenz(a,h)anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Fluorene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Indeno[1,2,3-cd]pyrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Naphthalene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Phenanthrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Pyrene	34	U *	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*91*		*53 - 97*	*12/02/13 12:17*	*12/03/13 22:09*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*46 - 111*	*12/02/13 12:17*	*12/03/13 22:09*	*1*
Nitrobenzene-d5 (Surr)	*88*		*55 - 98*	*12/02/13 12:17*	*12/03/13 22:09*	*1*
Phenol-d5 (Surr)	*85*		*54 - 101*	*12/02/13 12:17*	*12/03/13 22:09*	*1*
Terphenyl-d14 (Surr)	*76*		*58 - 123*	*12/02/13 12:17*	*12/03/13 22:09*	*1*
2-Fluorobiphenyl (Surr)	*88*		*56 - 97*	*12/02/13 12:17*	*12/03/13 22:09*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**0.11**	**J q**	2.1	0.039	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,7,8-PeCDD	**0.27**	**J q**	10	0.061	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,7,8-PeCDF	**2.6**	**J q**	10	0.046	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
2,3,4,7,8-PeCDF	**2.7**	**J B**	10	0.048	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,4,7,8-HxCDD	**0.23**	**J B q**	10	0.056	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,6,7,8-HxCDD	**0.76**	**J q B**	10	0.040	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,7,8,9-HxCDD	**1.0**	**J B**	10	0.041	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,4,7,8-HxCDF	**8.0**	**J B**	10	0.054	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,6,7,8-HxCDF	**4.6**	**J B**	10	0.040	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,7,8,9-HxCDF	**0.38**	**J B q**	10	0.052	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
2,3,4,6,7,8-HxCDF	**5.1**	**J B**	10	0.047	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,4,6,7,8-HpCDD	**4.4**	**J B**	10	0.099	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,4,6,7,8-HpCDF	**23**	**B**	10	0.082	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,4,7,8,9-HpCDF	**4.7**	**J B**	10	0.097	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
OCDD	**11**	**J B**	21	0.099	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
OCDF	**92**	**B**	21	0.15	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*101*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-2,3,7,8-TCDD	*95*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-1,2,3,7,8-PeCDD	*93*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*96*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-1,2,3,7,8-PeCDF	*93*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*

Client Sample ID: S17-SS-1_SS

Lab Sample ID: 680-96439-1

Date Collected: 11/21/13 12:30
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 96.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*90*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*101*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-OCDD	*98*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-1,2,3,4,7,8-HxCDF	*90*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	**2.7**	**B**	2.1	0.33	pg/g	☼	12/19/13 15:47	01/14/14 03:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*104*		*40 - 135*	*12/19/13 15:47*	*01/14/14 03:42*	*1*

Client Sample ID: FM-SS-1_SS

Lab Sample ID: 680-96439-2

Date Collected: 11/20/13 12:30
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 96.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**9.8**	**J B**	40	1.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-2	**12**	**J**	40	1.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-3	**17**	**J B**	40	1.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-4	9.0	U	40	9.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-5	8.4	U	40	8.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-6	**9.1**	**J**	40	8.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-7	7.9	U	40	7.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-8	**14**	**J**	40	8.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-9	8.9	U	40	8.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-10	5.2	U	40	5.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-11	**1100**	**B**	40	8.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-12/13	**17**	**J**	80	8.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-14	7.3	U	40	7.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-15	**27**	**J**	40	8.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-16	**6.3**	**J**	40	0.63	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-17	**4.4**	**J**	40	0.44	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-18/30	**7.3**	**J**	80	0.37	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-19	**1.2**	**J q**	40	0.57	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-20/28	**29**	**J B**	80	2.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-21/33	**17**	**J B**	80	2.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-22	**10**	**J**	40	2.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-23	2.0	U	40	2.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-24	**0.74**	**J**	40	0.32	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-25	**2.2**	**J**	40	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-26/29	**11**	**J**	80	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-27	**1.2**	**J**	40	0.33	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-31	**27**	**J B**	40	2.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-32	**3.1**	**J**	40	0.26	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-34	2.1	U	40	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-35	**220**		40	2.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-36	**12**	**J**	40	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-37	**28**	**J**	40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-38	2.3	U	40	2.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-1_SS
Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-2
Matrix: Solid
Percent Solids: 96.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-39	2.1	U	40	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-40/71	**20**	**J**	80	0.44	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-41	**3.3**	**J**	40	0.57	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-42	**9.4**	**J**	40	0.49	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-43	**2.3**	**J**	40	0.50	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-44/47/65	**54**	**J B**	120	0.42	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-45	**3.5**	**J**	40	0.49	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-46	**0.78**	**J q**	40	0.52	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-48	**9.2**	**J**	40	0.45	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-49/69	**26**	**J B**	80	0.37	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-50/53	**4.0**	**J**	80	0.41	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-51	**0.81**	**J**	40	0.41	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-52	**110**	**B**	40	0.46	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-54	0.29	U	40	0.29	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-55	5.3	U	40	5.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-56	**31**	**J**	40	5.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-57	5.2	U	40	5.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-58	5.2	U	40	5.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-59/62/75	**5.3**	**J**	120	0.32	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-60	**13**	**J q**	40	5.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-61/70/74/76	**180**	**B**	160	5.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-63	4.9	U	40	4.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-64	**20**	**J**	40	0.31	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-66	**75**	**B**	40	5.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-67	4.8	U	40	4.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-68	4.6	U	40	4.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-72	5.0	U	40	5.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-73	0.35	U	40	0.35	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-77	**62**	**G**	6.2	6.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-78	5.9	U	40	5.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-79	**11**	**J q**	40	5.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-80	4.9	U	40	4.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-81	5.9	U G	5.9	5.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-82	**35**	**J**	40	8.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-83	**9.8**	**J**	40	9.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-84	**44**		40	7.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-85/116/117	**50**	**J**	120	5.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-86/87/97/108/119/125	**170**	**J**	240	5.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-88/91	**18**	**J**	80	6.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-89	7.2	U	40	7.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-90/101/113	**240**	**B**	120	5.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-92	**38**	**J**	40	6.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-93/100	6.4	U	80	6.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-107/124	**15**	**J**	80	5.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-94	6.8	U	40	6.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-95	**100**	**B**	40	6.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-96	**0.65**	**J q**	40	0.16	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-98/102	6.0	U	80	6.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-99	**110**		40	6.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-1_SS
Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-2
Matrix: Solid
Percent Solids: 96.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-103	5.9	U	40	5.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-104	**0.40**	**J q**	40	0.19	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-105	**170**	**G**	5.7	5.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-106	**7.2**	**J**	40	5.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-110/115	**350**	**B**	80	5.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-109	**24**	**J**	40	4.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-111	4.7	U	40	4.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-112	4.5	U	40	4.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-114	**13**	**G**	5.6	5.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-118	**350**	**B G**	5.3	5.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-120	5.0	U	40	5.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-121	4.7	U	40	4.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-122	5.9	U	40	5.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-123	5.3	U G	5.3	5.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-126	**12**	**G**	6.3	6.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-127	5.8	U	40	5.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-128/166	**84**		80	2.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-129/138/163	**460**	**B**	120	2.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-130	**30**	**J**	40	3.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-131	**4.8**	**J**	40	3.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-132	**100**	**B**	40	2.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-133	**6.6**	**J**	40	2.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-134/143	**15**	**J**	80	2.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-135/151	**81**		80	2.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-136	**23**	**J**	40	1.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-137	**17**	**J q**	40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-139/140	**5.4**	**J**	80	2.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-141	**92**		40	2.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-142	**6.6**	**J**	40	2.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-144	**15**	**J**	40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-145	1.8	U	40	1.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-146	**56**		40	2.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-147/149	**210**	**B**	80	2.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-148	2.4	U	40	2.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-150	1.6	U	40	1.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-152	1.7	U	40	1.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-153/168	**360**	**B**	80	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-154	**3.1**	**J**	40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-155	2.3	U	40	2.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-156/157	**78**		8.0	3.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-158	**52**		40	1.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-159	**3.5**	**J**	40	2.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-160	**13**	**J**	40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-161	1.9	U	40	1.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-162	**4.9**	**J**	40	2.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-164	**34**	**J**	40	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-165	2.2	U	40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-167	**25**		4.0	2.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-169	3.0	U	4.0	3.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1

Client Sample ID: FM-SS-1_SS
Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-2
Matrix: Solid
Percent Solids: 96.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-170	150		40	1.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-171/173	53	J	80	1.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-172	30	J	40	1.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-174	130		40	1.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-175	8.7	J	40	0.37	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-176	11	J	40	0.25	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-177	62		40	1.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-178	24	J	40	0.39	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-179	34	J	40	0.27	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-180/193	420	B	80	1.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-181	4.2	J	40	1.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-182	4.1	J	40	0.35	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-183	70		40	1.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-184	5.7	J	40	0.28	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-185	36	J	40	1.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-186	1.2	J q	40	0.26	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-187	190		40	0.36	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-188	3.6	J	40	0.29	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-189	10		4.0	1.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-190	47		40	1.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-191	10	J	40	0.99	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-192	2.8	J	40	1.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-194	160		40	3.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-195	21	J	40	3.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-196	50		40	1.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-197	17	J	40	0.98	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-198/199	320		80	1.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-200	21	J	40	1.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-201	23	J	40	0.99	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-202	73		40	1.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-203	120		40	1.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-204	9.1	J	40	1.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-205	20	J	40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-206	540		40	4.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-207	170		40	3.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-208	280		40	3.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-209	69000	E B	40	16	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Monochlorobiphenyls	39	J B	400	1.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Dichlorobiphenyls	1100	B	400	8.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Trichlorobiphenyls	380	J B q	400	1.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Tetrachlorobiphenyls	640	B q	400	2.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Pentachlorobiphenyls	1800	B q	400	5.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Hexachlorobiphenyls	1800	B q	400	2.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Heptachlorobiphenyls	1300	B q	400	0.83	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Octachlorobiphenyls	840		400	1.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Nonachlorobiphenyls	990		400	3.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Polychlorinated biphenyls, Total	78000	B q	400	4.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*36*		*5 - 145*	*12/21/13 12:08*	*01/05/14 00:55*	*1*

Client Sample ID: FM-SS-1_SS
Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-2
Matrix: Solid
Percent Solids: 96.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-15L	47		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-123L	73		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-114L	74		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-202L	72		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-3L	36		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-118L	73		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-126L	81		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-206L	85		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-169L	88		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-37L	52		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-19L	45		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-188L	62		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-54L	45		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-156L/157L	79		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-167L	77		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-209L	81		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-189L	75		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-105L	76		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-208L	80		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-1L	30		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-104L	48		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-81L	68		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-77L	68		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-205L	87		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-155L	51		10 - 145	12/21/13 12:08	01/05/14 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	45		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-111L	71		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-178L	74		10 - 145	12/21/13 12:08	01/05/14 00:55	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9100**		88	61	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Antimony	2.8	U	4.4	2.8	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Barium	**170**		22	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Beryllium	0.74	U	2.2	0.74	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Cadmium	0.44	U	2.2	0.44	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Calcium	**22000**		1100	58	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Chromium	**68**		4.4	1.3	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Cobalt	**9.1**	**J**	22	4.1	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Copper	**19**		11	3.2	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Iron	**13000**		44	13	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Lead	**18**		4.4	0.75	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Magnesium	**8500**		440	36	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Manganese	**500**		4.4	0.68	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Nickel	**18**		18	0.99	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Potassium	**2400**		2200	1500	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Selenium	1.3	U	6.6	1.3	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Silver	**1.2**	**J**	4.4	1.0	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-1_SS
Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-2
Matrix: Solid
Percent Solids: 96.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	840		440	210	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Titanium	1500		8.8	2.8	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Vanadium	160		22	5.5	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Zinc	38		22	8.7	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0	J	4.4	1.1	mg/Kg	☼	12/03/13 09:05	12/25/13 09:48	10
Niobium	45		11	1.7	mg/Kg	☼	12/03/13 09:05	12/25/13 09:48	10
Thallium	0.67	U	2.2	0.67	mg/Kg	☼	12/03/13 09:05	12/25/13 09:48	10
Uranium	11		0.44	0.087	mg/Kg	☼	12/03/13 09:05	12/25/13 09:48	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	J	0.032	0.011	mg/Kg	☼	11/26/13 06:54	11/27/13 14:31	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	4.6		0.21	0.042	mg/Kg	☼		12/09/13 19:35	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	4100		100	10	mg/Kg	☼		12/09/13 19:49	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		210	21	mg/Kg	☼		12/10/13 14:27	100

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	74.2		10.0	4.09	pCi/g		12/23/13 11:18	12/23/13 18:51	1
Gross Beta	49.1		10.0	3.26	pCi/g		12/23/13 11:18	12/23/13 18:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.91			0.118	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Bismuth-212	3.09			1.17	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Bismuth-214	2.34			0.252	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Bismuth-210M	0.0513	U		0.142	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Cesium-134	0.0287	U		0.121	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Cesium-137	-0.0530	U		0.143	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Cobalt-57	0.00656	U		0.0807	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Cobalt-60	0.0111	U		0.145	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Lead-212	1.99			0.160	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Lead-214	2.71			0.253	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Potassium-40	21.8			0.796	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Protactinium-231	1.47	U		3.53	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Protactinium-234	0.0502	U		0.422	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Radium-224	2.43	U		2.53	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Thallium-208	0.600			0.0889	pCi/g		11/26/13 14:40	12/18/13 19:17	1
Thorium-227	0.389	U		0.419	pCi/g		11/26/13 14:40	12/18/13 19:17	1

Client Sample ID: FM-SS-1_SS — **Lab Sample ID: 680-96439-2**
Date Collected: 11/20/13 12:30 — **Matrix: Solid**
Date Received: 11/22/13 09:45

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-234	3.56			2.10	pCi/g		11/26/13 14:40	12/18/13 19:17	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	2.97		1.00	0.0991	pCi/g		11/26/13 13:36	12/24/13 07:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*40 - 110*	*11/26/13 13:36*	*12/24/13 07:58*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.39		1.00	0.422	pCi/g		11/26/13 14:00	12/20/13 12:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:25*	*1*
Y Carrier	*86.7*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:25*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.96		1.00	0.118	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-230	4.89		1.00	0.0685	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-232	1.64		1.00	0.0496	pCi/g		12/16/13 15:38	12/27/13 20:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*76.2*		*30 - 110*	*12/16/13 15:38*	*12/27/13 20:54*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	4.48		1.00	0.0756	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-235/236	0.221		1.00	0.0415	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-238	4.52		1.00	0.0677	pCi/g		12/16/13 15:38	12/26/13 16:51	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*83.9*		*30 - 110*	*12/16/13 15:38*	*12/26/13 16:51*	*1*

Client Sample ID: FM-SS-1_SS DUP — **Lab Sample ID: 680-96439-3**
Date Collected: 11/20/13 12:30 — **Matrix: Solid**
Date Received: 11/22/13 09:45 — **Percent Solids: 97.2**

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	14	J B	40	1.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-2	15	J	40	1.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-3	22	J B	40	1.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-4	13	J	40	6.3	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-5	6.1	U	40	6.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-6	12	J q	40	6.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-7	5.7	U	40	5.7	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-8	26	J	40	6.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-9	6.5	U	40	6.5	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-10	3.9	U	40	3.9	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-11	1200	B	40	6.3	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1

Client Sample ID: FM-SS-1_SS DUP
Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-3
Matrix: Solid
Percent Solids: 97.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-12/13	19	J	80	6.4	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-14	5.3	U	40	5.3	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-15	37	J	40	6.4	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-16	9.0	J	40	0.90	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-17	7.5	J	40	0.63	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-18/30	12	J	80	0.54	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-19	3.0	J	40	0.79	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-20/28	38	J B	80	2.8	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-21/33	23	J B	80	2.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-22	13	J	40	3.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-23	2.5	U	40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-24	1.2	J	40	0.47	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-25	3.3	J	40	2.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-26/29	17	J	80	2.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-27	1.6	J q	40	0.47	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-31	35	J B	40	2.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-32	4.9	J	40	0.37	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-34	2.6	U	40	2.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-35	240		40	3.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-36	12	J	40	2.7	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-37	35	J	40	3.3	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-38	3.0	J q	40	2.9	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-39	2.7	U	40	2.7	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-40/71	26	J	80	0.45	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-41	4.8	J	40	0.58	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-42	12	J	40	0.50	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-43	3.1	J	40	0.51	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-44/47/65	71	J B	120	0.43	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-45	3.9	J q	40	0.50	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-46	1.9	J	40	0.54	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-48	14	J	40	0.46	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-49/69	35	J B	80	0.37	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-50/53	5.7	J	80	0.42	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-51	0.87	J q	40	0.42	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-52	150	B	40	0.47	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-54	1.4	J	40	0.44	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-55	6.4	U	40	6.4	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-56	38	J	40	6.9	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-57	6.3	U	40	6.3	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-58	6.3	U	40	6.3	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-59/62/75	7.6	J	120	0.33	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-60	20	J	40	6.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-61/70/74/76	210	B	160	6.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-63	5.9	U	40	5.9	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-64	26	J	40	0.31	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-66	87	B	40	7.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-67	5.9	U	40	5.9	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-68	5.6	U	40	5.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-72	6.1	U	40	6.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-1_SS DUP
Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-3
Matrix: Solid
Percent Solids: 97.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-73	0.35	U	40	0.35	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-77	**75**	**G**	7.9	7.9	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-78	7.1	U	40	7.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-79	**17**	**J q**	40	6.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-80	5.9	U	40	5.9	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-81	7.8	U G	7.8	7.8	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-82	**39**	**J**	40	11	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-83	12	U	40	12	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-84	**54**		40	10	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-85/116/117	**61**	**J**	120	7.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-86/87/97/108/119/125	**210**	**J**	240	7.8	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-88/91	**22**	**J**	80	8.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-89	9.7	U	40	9.7	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-90/101/113	**300**	**B**	120	7.8	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-92	**47**		40	9.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-93/100	8.7	U	80	8.7	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-107/124	**19**	**J**	80	7.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-94	9.2	U	40	9.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-95	**130**	**B**	40	8.5	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-96	**1.0**	**J**	40	0.30	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-98/102	8.1	U	80	8.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-99	**130**		40	9.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-103	8.0	U	40	8.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-104	**1.4**	**J**	40	0.32	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-105	**200**	**G**	8.0	8.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-106	**13**	**J q**	40	7.8	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-110/115	**410**	**B**	80	6.9	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-109	**27**	**J**	40	6.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-111	6.3	U	40	6.3	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-112	6.1	U	40	6.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-114	**18**	**G**	7.7	7.7	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-118	**400**	**B G**	7.3	7.3	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-120	6.7	U	40	6.7	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-121	6.3	U	40	6.3	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-122	7.9	U	40	7.9	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-123	7.4	U G	7.4	7.4	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-126	**14**	**q G**	8.6	8.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-127	7.8	U	40	7.8	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-128/166	**100**		80	3.5	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-129/138/163	**560**	**B**	120	3.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-130	**36**	**J**	40	4.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-131	**5.1**	**J q**	40	4.4	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-132	**120**	**B**	40	4.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-133	**7.7**	**J**	40	4.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-134/143	**20**	**J**	80	4.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-135/151	**98**		80	3.7	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-136	**29**	**J**	40	2.7	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-137	**20**	**J q**	40	3.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-139/140	**6.4**	**J**	80	3.5	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-1_SS DUP
Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-3
Matrix: Solid
Percent Solids: 97.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-141	120		40	3.9	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-142	10	J	40	4.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-144	20	J	40	3.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-145	2.6	U	40	2.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-146	68		40	3.9	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-147/149	260	B	80	3.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-148	3.6	U	40	3.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-150	2.4	U	40	2.4	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-152	2.5	U	40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-153/168	420	B	80	3.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-154	3.2	U	40	3.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-155	3.3	U	40	3.3	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-156/157	94		8.0	4.8	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-158	61		40	2.8	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-159	4.2	U	40	4.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-160	20	J	40	3.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-161	2.8	U	40	2.8	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-162	4.1	U	40	4.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-164	40		40	3.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-165	3.2	U	40	3.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-167	29		4.0	4.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-169	4.3	U G	4.3	4.3	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-170	170		40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-171/173	71	J	80	2.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-172	30	J q	40	2.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-174	170		40	2.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-175	12	J	40	0.47	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-176	14	J	40	0.31	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-177	77		40	2.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-178	31	J	40	0.49	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-179	43		40	0.34	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-180/193	510	B	80	1.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-181	5.6	J	40	1.7	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-182	4.9	J	40	0.43	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-183	83		40	1.5	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-184	7.1	J	40	0.35	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-185	68		40	1.8	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-186	1.7	J	40	0.33	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-187	240		40	0.45	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-188	5.3	J	40	0.35	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-189	14		4.0	1.5	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-190	71		40	1.5	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-191	13	J	40	1.5	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-192	4.4	J	40	1.5	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-194	190		40	5.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-195	26	J	40	4.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-196	59		40	3.3	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-197	22	J	40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-198/199	380		80	3.4	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-1_SS DUP
Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-3
Matrix: Solid
Percent Solids: 97.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-200	29	J	40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-201	28	J	40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-202	91		40	2.7	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-203	160		40	3.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-204	9.1	J q	40	2.3	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-205	30	J	40	3.4	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-206	670		40	5.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-207	210		40	3.8	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-208	340		40	4.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
PCB-209	89000	E B	40	16	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
Total Monochlorobiphenyls	52	J B	400	1.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
Total Dichlorobiphenyls	1300	B q	400	5.9	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
Total Trichlorobiphenyls	460	B q	400	2.0	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
Total Tetrachlorobiphenyls	810	B q	400	3.5	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
Total Pentachlorobiphenyls	2100	B q	400	7.7	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
Total Hexachlorobiphenyls	2200	B q	400	3.6	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
Total Heptachlorobiphenyls	1600	B q	400	1.2	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
Total Octachlorobiphenyls	1000	q	400	3.1	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
Total Nonachlorobiphenyls	1200		400	4.5	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1
Polychlorinated biphenyls, Total	100000	B q	400	4.8	pg/g	☼	12/21/13 12:08	01/05/14 04:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*45*		*5 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-15L	*54*		*5 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-123L	*74*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-114L	*73*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-202L	*77*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-3L	*46*		*5 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-118L	*75*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-126L	*82*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-206L	*86*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-169L	*87*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-37L	*57*		*5 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-19L	*52*		*5 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-188L	*67*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-54L	*54*		*5 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-156L/157L	*80*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-167L	*75*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-209L	*86*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-189L	*74*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-105L	*77*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-208L	*83*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-1L	*39*		*5 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-104L	*56*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-81L	*67*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-77L	*68*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-205L	*89*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-155L	*54*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*

Client Sample ID: FM-SS-1_SS DUP

Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-3

Matrix: Solid
Percent Solids: 97.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*53*		*5 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-111L	*74*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*
PCB-178L	*76*		*10 - 145*	*12/21/13 12:08*	*01/05/14 04:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8400**		94	65	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Antimony	3.0	U	4.7	3.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Barium	**150**		23	1.2	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Beryllium	0.79	U	2.3	0.79	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Cadmium	0.47	U	2.3	0.47	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Calcium	**20000**		1200	62	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Chromium	**59**		4.7	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Cobalt	**8.6**	**J**	23	4.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Copper	**17**		12	3.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Iron	**13000**		47	14	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Lead	**17**		4.7	0.80	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Magnesium	**7300**		470	39	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Manganese	**460**		4.7	0.72	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Nickel	**17**	**J**	19	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Potassium	**2200**	**J**	2300	1600	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Selenium	1.4	U	7.0	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Silver	1.1	U	4.7	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Sodium	**810**		470	220	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Titanium	**1500**		9.4	3.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Vanadium	**140**		23	5.9	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5
Zinc	**33**		23	9.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:01	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.8**	**J**	4.7	1.2	mg/Kg	☼	12/03/13 09:05	12/25/13 10:15	10
Niobium	**46**		12	1.8	mg/Kg	☼	12/03/13 09:05	12/25/13 10:15	10
Thallium	0.71	U	2.3	0.71	mg/Kg	☼	12/03/13 09:05	12/25/13 10:15	10
Uranium	**9.6**		0.47	0.093	mg/Kg	☼	12/03/13 09:05	12/25/13 10:15	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.031	0.010	mg/Kg	☼	11/26/13 06:54	11/27/13 14:42	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**5.5**		0.21	0.041	mg/Kg	☼		12/09/13 21:30	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2000**		210	21	mg/Kg	☼		12/10/13 15:39	100
Sulfate	**4400**		520	52	mg/Kg	☼		12/10/13 15:39	100

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	**84.6**		10.0	4.56	pCi/g		12/23/13 11:18	12/23/13 18:51	1

Client Sample ID: FM-SS-1_SS DUP
Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-3
Matrix: Solid

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Beta	50.8		10.0	3.28	pCi/g		12/23/13 11:18	12/23/13 18:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.01			0.297	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Bismuth-212	3.53			0.775	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Bismuth-214	2.57			0.170	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Bismuth-210M	-0.0451	U		0.147	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Cesium-134	0.0241	U		0.0941	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Cesium-137	-0.0198	U		0.114	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Cobalt-57	0.0164	U		0.0716	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Cobalt-60	0.0110	U		0.113	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Lead-212	1.90			0.174	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Lead-214	3.20			0.205	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Potassium-40	21.5			0.628	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Protactinium-231	0.828	U		2.63	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Protactinium-234	-0.139	U		0.349	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Radium-224	2.45			2.43	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Thallium-208	0.725			0.0900	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Thorium-227	0.00531	U		0.855	pCi/g		11/26/13 14:40	12/18/13 19:18	1
Thorium-234	4.15			2.66	pCi/g		11/26/13 14:40	12/18/13 19:18	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	3.15		1.00	0.0924	pCi/g		11/26/13 13:36	12/24/13 07:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*113*	*X*	*40 - 110*	*11/26/13 13:36*	*12/24/13 07:59*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.22		1.00	0.410	pCi/g		11/26/13 14:00	12/20/13 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*113*	*X*	*40 - 110*	*11/26/13 14:00*	*12/20/13 12:26*	*1*
Y Carrier	*86.7*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:26*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.84		1.00	0.133	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-230	4.76		1.00	0.0867	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-232	1.57		1.00	0.0658	pCi/g		12/16/13 15:38	12/27/13 20:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*73.5*		*30 - 110*	*12/16/13 15:38*	*12/27/13 20:54*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	4.41		1.00	0.0632	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-235/236	0.282		1.00	0.0786	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-238	4.04		1.00	0.0504	pCi/g		12/16/13 15:38	12/26/13 16:51	1

Client Sample ID: FM-SS-1_SS DUP

Lab Sample ID: 680-96439-3

Date Collected: 11/20/13 12:30

Matrix: Solid

Date Received: 11/22/13 09:45

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	85.4		30 - 110	12/16/13 15:38	12/26/13 16:51	1

Client Sample ID: FM-SS-2_SS

Lab Sample ID: 680-96439-4

Date Collected: 11/20/13 12:00

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 97.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Acenaphthylene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Anthracene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Benzo[a]anthracene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Benzo[b]fluoranthene	34	U *	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Benzo[k]fluoranthene	34	U *	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Benzo[g,h,i]perylene	34	U *	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Benzo[a]pyrene	34	U *	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Chrysene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Dibenz(a,h)anthracene	34	U *	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Fluoranthene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Fluorene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Indeno[1,2,3-cd]pyrene	34	U *	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Naphthalene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Phenanthrene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1
Pyrene	34	U *	330	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	86		53 - 97	12/02/13 12:17	12/03/13 22:42	1
2,4,6-Tribromophenol (Surr)	80		46 - 111	12/02/13 12:17	12/03/13 22:42	1
Nitrobenzene-d5 (Surr)	85		55 - 98	12/02/13 12:17	12/03/13 22:42	1
Phenol-d5 (Surr)	82		54 - 101	12/02/13 12:17	12/03/13 22:42	1
Terphenyl-d14 (Surr)	102		58 - 123	12/02/13 12:17	12/03/13 22:42	1
2-Fluorobiphenyl (Surr)	85		56 - 97	12/02/13 12:17	12/03/13 22:42	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	3.5	U	810	3.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-2	3.6	U	810	3.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-3	3.9	U	810	3.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-4	150	U	810	150	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-5	160	U	810	160	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-6	160	U	810	160	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-7	150	U	810	150	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-8	160	U	810	160	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-9	170	U	810	170	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-10	100	U	810	100	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-11	**1900**	**B**	810	170	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-12/13	170	U	1600	170	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-14	140	U	810	140	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-15	180	U	810	180	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-16	34	U	810	34	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-17	24	U	810	24	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-2_SS
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-4
Matrix: Solid
Percent Solids: 97.9

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-18/30	21	U	1600	21	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-19	25	U	810	25	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-20/28	**25**	**J B**	1600	8.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-21/33	7.8	U	1600	7.8	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-22	9.0	U	810	9.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-23	7.6	U	810	7.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-24	18	U	810	18	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-25	7.9	U	810	7.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-26/29	7.9	U	1600	7.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-27	18	U	810	18	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-31	**12**	**J q B**	810	7.8	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-32	14	U	810	14	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-34	7.9	U	810	7.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-35	**100**	**J**	810	9.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-36	8.1	U	810	8.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-37	**20**	**J**	810	12	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-38	8.6	U	810	8.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-39	8.1	U	810	8.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-40/71	5.3	U	1600	5.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-41	6.9	U	810	6.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-42	5.9	U	810	5.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-43	6.1	U	810	6.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-44/47/65	**46**	**J B**	2400	5.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-45	6.0	U	810	6.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-46	6.4	U	810	6.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-48	5.5	U	810	5.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-49/69	**18**	**J q B**	1600	4.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-50/53	5.0	U	1600	5.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-51	5.0	U	810	5.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-52	**100**	**J B**	810	5.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-54	5.6	U	810	5.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-55	6.7	U	810	6.7	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-56	**15**	**J B**	810	7.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-57	6.6	U	810	6.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-58	6.6	U	810	6.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-59/62/75	3.9	U	2400	3.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-60	**7.2**	**J q**	810	7.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-61/70/74/76	**110**	**J B**	3200	6.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-63	6.2	U	810	6.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-64	**10**	**J q B**	810	3.7	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-66	**41**	**J B**	810	7.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-67	6.2	U	810	6.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-68	5.9	U	810	5.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-72	6.4	U	810	6.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-73	4.2	U	810	4.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-77	**16**	**J q**	81	9.8	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-78	7.5	U	810	7.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-79	6.5	U	810	6.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-80	6.2	U	810	6.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-2_SS
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-4
Matrix: Solid
Percent Solids: 97.9

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-81	9.8	U	81	9.8	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-82	**27**	**J**	810	10	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-83	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-84	**40**	**J q**	810	9.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-85/116/117	**35**	**J**	2400	6.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-86/87/97/108/119/125	**140**	**J**	4800	7.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-88/91	**20**	**J**	1600	7.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-89	8.9	U	810	8.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-90/101/113	**210**	**J B**	2400	7.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-92	**33**	**J q**	810	8.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-93/100	7.9	U	1600	7.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-107/124	**9.2**	**J q**	1600	6.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-94	8.4	U	810	8.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-95	**130**	**J B**	810	7.8	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-96	2.9	U	810	2.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-98/102	7.4	U	1600	7.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-99	**94**	**J**	810	8.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-103	7.3	U	810	7.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-104	2.6	U	810	2.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-105	**120**		81	7.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-106	7.1	U	810	7.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-110/115	**280**	**J B**	1600	6.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-109	**14**	**J**	810	6.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-111	5.8	U	810	5.8	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-112	5.6	U	810	5.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-114	7.2	U	81	7.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-115	**280**	**J B**	1600	6.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-118	**220**	**B**	81	7.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-120	6.2	U	810	6.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-121	5.8	U	810	5.8	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-122	7.3	U	810	7.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-123	7.2	U	81	7.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-126	10	U	81	10	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-127	7.1	U	810	7.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-128/166	**42**	**J**	1600	8.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-129/138/163	**300**	**J B**	2400	8.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-130	**16**	**J**	810	11	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-131	10	U	810	10	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-132	**84**	**J**	810	9.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-133	9.5	U	810	9.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-134/143	9.6	U	1600	9.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-135/151	**58**	**J**	1600	8.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-136	**21**	**J**	810	6.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-137	**13**	**J**	810	8.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-139/140	8.1	U	1600	8.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-141	**56**	**J**	810	9.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-142	9.3	U	810	9.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-144	**10**	**J**	810	8.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-145	6.0	U	810	6.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-2_SS
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-4
Matrix: Solid
Percent Solids: 97.9

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-146	37	J	810	8.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-147/149	160	J B	1600	8.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-148	8.3	U	810	8.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-150	5.6	U	810	5.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-152	5.7	U	810	5.7	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-153/168	230	J B	1600	7.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-154	7.4	U	810	7.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-155	5.5	U	810	5.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-156/157	41	J	160	6.8	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-158	30	J	810	6.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-159	5.4	U	810	5.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-160	7.4	U	810	7.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-161	6.4	U	810	6.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-162	5.2	U	810	5.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-164	17	J q	810	7.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-165	7.4	U	810	7.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-167	13	J	81	4.7	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-169	7.8	U	81	7.8	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-170	68	J	810	6.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-171/173	30	J	1600	5.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-172	5.7	U	810	5.7	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-174	75	J	810	5.7	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-175	7.0	U	810	7.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-176	10	J	810	4.7	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-177	28	J q	810	5.7	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-178	11	J q	810	7.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-179	22	J	810	5.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-180/193	190	J B	1600	4.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-181	4.7	U	810	4.7	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-182	6.5	U	810	6.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-183	38	J	810	4.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-184	5.9	J	810	5.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-185	14	J q	810	5.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-186	5.0	U	810	5.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-187	94	J	810	6.8	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-188	4.4	U	810	4.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-189	7.8	U	81	7.8	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-190	13	J q	810	4.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-191	4.1	U	810	4.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-192	4.3	U	810	4.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-194	49	J	810	6.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-195	5.6	U	810	5.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-196	26	J	810	6.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-197	23	J	810	4.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-198/199	120	J	1600	6.8	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-200	8.4	J q	810	4.5	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-201	25	J	810	4.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-202	26	J q	810	4.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-203	45	J	810	6.1	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-2_SS
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-4
Matrix: Solid
Percent Solids: 97.9

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-204	7.0	J	810	4.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-205	8.5	J q	810	5.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-206	200	J	810	7.7	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-207	210	J	810	4.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-208	200	J	810	5.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
PCB-209	30000	B	810	12	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
Total Monochlorobiphenyls	3.9	U	8100	3.9	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
Total Dichlorobiphenyls	1900	J B	8100	160	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
Total Trichlorobiphenyls	160	J q B	8100	13	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
Total Tetrachlorobiphenyls	370	J q B	8100	6.2	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
Total Pentachlorobiphenyls	1400	J q B	8100	7.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
Total Hexachlorobiphenyls	1100	J q B	8100	7.6	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
Total Heptachlorobiphenyls	600	J q B	8100	5.4	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
Total Octachlorobiphenyls	340	J q	8100	5.3	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
Total Nonachlorobiphenyls	620	J	8100	6.0	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20
Polychlorinated biphenyls, Total	36000	q B	8100	22	pg/g	☼	12/18/13 16:10	01/18/14 18:42	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*51*		*5 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-15L	*62*		*5 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-123L	*68*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-114L	*65*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-202L	*131*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-3L	*51*		*5 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-118L	*68*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-126L	*60*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-206L	*98*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-169L	*74*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-37L	*56*		*5 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-19L	*58*		*5 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-188L	*123*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-54L	*79*		*5 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-156L/157L	*81*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-167L	*84*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-209L	*93*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-189L	*92*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-105L	*66*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-208L	*120*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-1L	*44*		*5 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-104L	*65*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-81L	*61*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-77L	*59*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-205L	*96*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-155L	*75*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*57*		*5 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-111L	*68*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*
PCB-178L	*90*		*10 - 145*	*12/18/13 16:10*	*01/18/14 18:42*	*20*

Client Sample ID: FM-SS-2_SS
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-4
Matrix: Solid
Percent Solids: 97.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.34	J	2.0	0.043	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
1,2,3,7,8-PeCDD	0.47	J	10	0.076	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
1,2,3,7,8-PeCDF	15		10	0.11	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
2,3,4,7,8-PeCDF	6.9	J	10	0.11	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
1,2,3,4,7,8-HxCDD	0.38	J	10	0.066	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
1,2,3,6,7,8-HxCDD	0.75	J	10	0.047	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
1,2,3,7,8,9-HxCDD	0.57	J q	10	0.048	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
1,2,3,4,7,8-HxCDF	72		10	0.14	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
1,2,3,6,7,8-HxCDF	14		10	0.10	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
1,2,3,7,8,9-HxCDF	2.2	J	10	0.13	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
2,3,4,6,7,8-HxCDF	6.6	J	10	0.12	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
1,2,3,4,6,7,8-HpCDD	3.8	J B	10	0.11	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
1,2,3,4,6,7,8-HpCDF	81	B	10	0.35	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
1,2,3,4,7,8,9-HpCDF	42	B	10	0.42	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
OCDD	35	B	20	0.22	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1
OCDF	4600	B	20	1.2	pg/g	☼	12/18/13 13:34	01/14/14 17:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*104*		*40 - 135*	*12/18/13 13:34*	*01/14/14 17:41*	*1*
13C-2,3,7,8-TCDD	*99*		*40 - 135*	*12/18/13 13:34*	*01/14/14 17:41*	*1*
13C-1,2,3,7,8-PeCDD	*102*		*40 - 135*	*12/18/13 13:34*	*01/14/14 17:41*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*104*		*40 - 135*	*12/18/13 13:34*	*01/14/14 17:41*	*1*
13C-1,2,3,7,8-PeCDF	*95*		*40 - 135*	*12/18/13 13:34*	*01/14/14 17:41*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*112*		*40 - 135*	*12/18/13 13:34*	*01/14/14 17:41*	*1*
13C-OCDD	*115*		*40 - 135*	*12/18/13 13:34*	*01/14/14 17:41*	*1*
13C-1,2,3,4,7,8-HxCDF	*79*		*40 - 135*	*12/18/13 13:34*	*01/14/14 17:41*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	17		2.0	0.076	pg/g	☼	12/18/13 13:34	01/16/14 21:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*102*		*40 - 135*	*12/18/13 13:34*	*01/16/14 21:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8600		92	65	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Antimony	3.0	U	4.6	3.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Barium	180		23	1.2	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Beryllium	0.78	U	2.3	0.78	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Cadmium	0.46	U	2.3	0.46	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Calcium	17000		1200	61	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Chromium	49		4.6	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Cobalt	10	J	23	4.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Copper	19		12	3.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Iron	14000		46	14	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Lead	14		4.6	0.79	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Magnesium	6700		460	38	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Manganese	510		4.6	0.71	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Nickel	17	J	18	1.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Potassium	2000	J	2300	1600	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-2_SS
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-4
Matrix: Solid
Percent Solids: 97.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	1.3	U	6.9	1.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Silver	1.1	U	4.6	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Sodium	**450**	**J**	460	220	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Titanium	**1100**		9.2	2.9	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Vanadium	**94**		23	5.8	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5
Zinc	**43**		23	9.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:13	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.9**	**J**	4.6	1.2	mg/Kg	☼	12/03/13 09:05	12/25/13 10:22	10
Niobium	**30**		12	1.8	mg/Kg	☼	12/03/13 09:05	12/25/13 10:22	10
Thallium	0.70	U	2.3	0.70	mg/Kg	☼	12/03/13 09:05	12/25/13 10:22	10
Uranium	**6.2**		0.46	0.092	mg/Kg	☼	12/03/13 09:05	12/25/13 10:22	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**	**J**	0.030	0.0099	mg/Kg	☼	11/26/13 06:54	11/27/13 14:43	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**1.6**		0.20	0.041	mg/Kg	☼		12/09/13 21:59	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		41	4.1	mg/Kg	☼		12/10/13 15:53	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**4400**		510	51	mg/Kg	☼		12/10/13 16:08	100

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	**37.1**		10.0	4.47	pCi/g		12/23/13 11:18	12/23/13 18:51	1
Gross Beta	**35.6**		10.0	2.63	pCi/g		12/23/13 11:18	12/23/13 18:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	**1.83**			0.218	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Bismuth-212	**2.78**			0.732	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Bismuth-214	**1.48**			0.169	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Bismuth-210M	0.00664	U		0.136	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Cesium-134	0.0559	U		0.0725	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Cesium-137	0.00232	U		0.0882	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Cobalt-57	0.0127	U		0.0737	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Cobalt-60	0.0376	U		0.0972	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Lead-212	**1.66**			0.175	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Lead-214	**1.66**			0.172	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Potassium-40	**24.3**			0.633	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Protactinium-231	0.649	U		3.29	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Protactinium-234	0.0401	U		0.383	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Radium-224	2.29	U		2.57	pCi/g		11/26/13 14:40	12/18/13 19:19	1

Client Sample ID: FM-SS-2_SS

Lab Sample ID: 680-96439-4

Date Collected: 11/20/13 12:00

Matrix: Solid

Date Received: 11/22/13 09:45

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thallium-208	0.636			0.0860	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Thorium-227	0.157	U		0.426	pCi/g		11/26/13 14:40	12/18/13 19:19	1
Thorium-234	2.84			2.17	pCi/g		11/26/13 14:40	12/18/13 19:19	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	1.47		1.00	0.0767	pCi/g		11/26/13 13:36	12/24/13 11:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*108*		*40 - 110*	*11/26/13 13:36*	*12/24/13 11:35*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.12		1.00	0.366	pCi/g		11/26/13 14:00	12/20/13 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*108*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:26*	*1*
Y Carrier	*89.0*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:26*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.74		1.00	0.0813	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-230	2.58		1.00	0.0359	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-232	1.88		1.00	0.0357	pCi/g		12/16/13 15:38	12/27/13 20:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*76.1*		*30 - 110*	*12/16/13 15:38*	*12/27/13 20:54*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	2.47		1.00	0.0845	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-235/236	0.177		1.00	0.0880	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-238	2.41		1.00	0.0644	pCi/g		12/16/13 15:38	12/26/13 16:51	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*76.5*		*30 - 110*	*12/16/13 15:38*	*12/26/13 16:51*	*1*

Client Sample ID: FM-SS-2_SS DUP

Lab Sample ID: 680-96439-5

Date Collected: 11/20/13 12:00

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Acenaphthylene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Benzo[a]anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Benzo[b]fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Benzo[k]fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Benzo[g,h,i]perylene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Benzo[a]pyrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Chrysene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1

Client Sample ID: FM-SS-2_SS DUP
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-5
Matrix: Solid
Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Fluorene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Indeno[1,2,3-cd]pyrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Naphthalene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Phenanthrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1
Pyrene	34	U *	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*92*		*53 - 97*	*12/02/13 12:17*	*12/03/13 23:16*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*46 - 111*	*12/02/13 12:17*	*12/03/13 23:16*	*1*
Nitrobenzene-d5 (Surr)	*89*		*55 - 98*	*12/02/13 12:17*	*12/03/13 23:16*	*1*
Phenol-d5 (Surr)	*87*		*54 - 101*	*12/02/13 12:17*	*12/03/13 23:16*	*1*
Terphenyl-d14 (Surr)	*72*		*58 - 123*	*12/02/13 12:17*	*12/03/13 23:16*	*1*
2-Fluorobiphenyl (Surr)	*90*		*56 - 97*	*12/02/13 12:17*	*12/03/13 23:16*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	3.6	U	810	3.6	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-2	3.8	U	810	3.8	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-3	**8.6**	**J q B**	810	4.0	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-4	170	U	810	170	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-5	230	U	810	230	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-6	230	U	810	230	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-7	210	U	810	210	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-8	220	U	810	220	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-9	240	U	810	240	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-10	120	U	810	120	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-11	**3600**	**B**	810	230	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-12/13	240	U	1600	240	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-14	200	U	810	200	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-15	280	U	810	280	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-16	54	U	810	54	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-17	38	U	810	38	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-18/30	32	U	1600	32	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-19	37	U	810	37	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-20/28	**39**	**J B**	1600	10	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-21/33	**14**	**J q B**	1600	9.7	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-22	**15**	**J q**	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-23	9.5	U	810	9.5	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-24	28	U	810	28	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-25	9.8	U	810	9.8	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-26/29	9.9	U	1600	9.9	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-27	28	U	810	28	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-31	**36**	**J B**	810	9.7	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-32	22	U	810	22	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-34	9.9	U	810	9.9	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-35	**170**	**J**	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-36	10	U	810	10	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-37	**24**	**J q**	810	16	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-2_SS DUP
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-5
Matrix: Solid
Percent Solids: 97.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-38	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-39	10	U	810	10	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-40/71	**17**	**J B**	1600	9.0	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-41	12	U	810	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-42	10	U	810	10	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-43	10	U	810	10	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-44/47/65	**48**	**J q B**	2400	8.6	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-45	10	U	810	10	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-46	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-48	9.2	U	810	9.2	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-49/69	**30**	**J B**	1600	7.5	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-50/53	8.5	U	1600	8.5	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-51	8.4	U	810	8.4	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-52	**130**	**J B**	810	9.4	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-54	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-55	12	U	810	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-56	**26**	**J B**	810	13	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-57	12	U	810	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-58	12	U	810	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-59/62/75	6.6	U	2400	6.6	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-60	**17**	**J**	810	13	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-61/70/74/76	**150**	**J B**	3200	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-63	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-64	**18**	**J B**	810	6.2	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-66	**68**	**J B**	810	13	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-67	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-68	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-72	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-73	7.1	U	810	7.1	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-77	**36**	**J**	81	20	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-78	13	U	810	13	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-79	12	U	810	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-80	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-81	18	U	81	18	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-82	**27**	**J**	810	20	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-83	22	U	810	22	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-84	**49**	**J q**	810	18	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-85/116/117	**38**	**J q**	2400	14	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-86/87/97/108/119/125	**200**	**J**	4900	14	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-88/91	**20**	**J**	1600	15	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-89	17	U	810	17	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-90/101/113	**290**	**J B**	2400	14	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-92	**52**	**J**	810	16	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-93/100	16	U	1600	16	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-107/124	**17**	**J**	1600	13	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-94	16	U	810	16	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-95	**170**	**J q B**	810	15	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-96	5.0	U	810	5.0	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-98/102	15	U	1600	15	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-2_SS DUP
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-5
Matrix: Solid
Percent Solids: 97.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-99	**130**	**J**	810	16	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-103	14	U	810	14	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-104	4.1	U	810	4.1	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-105	**180**		81	16	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-106	14	U	810	14	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-110/115	**370**	**J B**	1600	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-109	**17**	**J**	810	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-111	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-112	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-114	15	U	81	15	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-115	**370**	**J B**	1600	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-118	**380**	**B**	81	15	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-120	12	U	810	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-121	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-122	14	U	810	14	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-123	14	U	81	14	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-126	22	U	81	22	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-127	14	U	810	14	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-128/166	**72**	**J**	1600	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-129/138/163	**440**	**J B**	2400	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-130	**19**	**J q**	810	14	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-131	14	U	810	14	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-132	**120**	**J**	810	13	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-133	13	U	810	13	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-134/143	**18**	**J**	1600	13	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-135/151	**85**	**J**	1600	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-136	**25**	**J**	810	8.3	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-137	**15**	**J q**	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-139/140	11	U	1600	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-141	**74**	**J**	810	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-142	13	U	810	13	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-144	**12**	**J**	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-145	8.1	U	810	8.1	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-146	**44**	**J**	810	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-147/149	**240**	**J B**	1600	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-148	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-150	7.5	U	810	7.5	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-152	7.7	U	810	7.7	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-153/168	**350**	**J B**	1600	9.4	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-154	9.9	U	810	9.9	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-155	7.1	U	810	7.1	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-156/157	**72**	**J**	160	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-158	**33**	**J q**	810	8.6	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-159	8.6	U	810	8.6	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-160	9.9	U	810	9.9	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-161	8.6	U	810	8.6	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-162	8.3	U	810	8.3	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-164	**32**	**J**	810	9.6	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-165	10	U	810	10	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-2_SS DUP
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-5
Matrix: Solid
Percent Solids: 97.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-167	21	J q	81	8.0	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-169	13	U	81	13	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-170	120	J	810	10	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-171/173	37	J q	1600	9.6	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-172	20	J q	810	9.9	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-174	120	J	810	9.9	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-175	12	U	810	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-176	14	J	810	7.9	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-177	46	J q	810	9.9	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-178	23	J	810	12	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-179	32	J q	810	8.6	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-180/193	250	J q B	1600	8.0	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-181	8.1	U	810	8.1	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-182	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-183	55	J q	810	7.3	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-184	8.8	U	810	8.8	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-185	30	J q	810	8.8	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-186	8.3	U	810	8.3	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-187	140	J	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-188	7.7	U	810	7.7	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-189	14	U	81	14	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-190	30	J q	810	7.4	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-191	7.2	U	810	7.2	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-192	7.4	U	810	7.4	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-194	71	J	810	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-195	9.9	U	810	9.9	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-196	37	J	810	7.9	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-197	43	J	810	5.3	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-198/199	190	J	1600	8.2	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-200	16	J	810	5.3	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-201	41	J	810	5.3	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-202	39	J	810	5.4	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-203	72	J	810	7.3	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-204	9.0	J q	810	5.5	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-205	9.0	U	810	9.0	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-206	330	J	810	13	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-207	370	J	810	8.3	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-208	330	J	810	8.9	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
PCB-209	42000	B	810	17	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
Total Monochlorobiphenyls	8.6	J q B	8100	3.8	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
Total Dichlorobiphenyls	3600	J B	8100	220	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
Total Trichlorobiphenyls	300	J q B	8100	19	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
Total Tetrachlorobiphenyls	540	J q B	8100	11	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
Total Pentachlorobiphenyls	1900	J q B	8100	14	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
Total Hexachlorobiphenyls	1700	J q B	8100	10	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
Total Heptachlorobiphenyls	910	J q B	8100	9.3	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
Total Octachlorobiphenyls	520	J q	8100	7.3	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
Total Nonachlorobiphenyls	1000	J	8100	10	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20
Polychlorinated biphenyls, Total	52000	q B	8100	32	pg/g	☼	12/18/13 16:10	01/18/14 19:58	20

Client Sample ID: FM-SS-2_SS DUP
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-5
Matrix: Solid
Percent Solids: 97.8

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-4L	39		5 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-15L	36		5 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-123L	34		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-114L	32		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-202L	53		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-3L	44		5 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-118L	32		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-126L	32		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-206L	42		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-169L	36		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-37L	29		5 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-19L	39		5 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-188L	51		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-54L	52		5 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-156L/157L	38		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-167L	40		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-209L	42		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-189L	43		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-105L	33		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-208L	54		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-1L	29	q	5 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-104L	34		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-81L	31		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-77L	32		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-205L	45		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-155L	36		10 - 145	12/18/13 16:10	01/18/14 19:58	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	67		5 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-111L	64		10 - 145	12/18/13 16:10	01/18/14 19:58	20
PCB-178L	80		10 - 145	12/18/13 16:10	01/18/14 19:58	20

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.1	J q	2.0	0.15	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
1,2,3,7,8-PeCDD	2.6	J	10	0.40	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
1,2,3,7,8-PeCDF	58		10	0.42	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
2,3,4,7,8-PeCDF	27		10	0.43	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
1,2,3,4,7,8-HxCDD	1.6	J	10	0.24	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
1,2,3,6,7,8-HxCDD	3.6	J	10	0.17	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
1,2,3,7,8,9-HxCDD	3.9	J	10	0.17	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
1,2,3,4,7,8-HxCDF	250		10	0.57	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
1,2,3,6,7,8-HxCDF	56		10	0.43	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
1,2,3,7,8,9-HxCDF	7.5	J	10	0.55	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
2,3,4,6,7,8-HxCDF	20		10	0.50	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
1,2,3,4,6,7,8-HpCDD	18	B	10	0.36	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
1,2,3,4,6,7,8-HpCDF	270	B	10	1.3	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
1,2,3,4,7,8,9-HpCDF	150	B	10	1.5	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
OCDD	130	B	20	0.57	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1
OCDF	14000	E B	20	4.4	pg/g	☼	12/18/13 13:34	01/14/14 18:23	1

Client Sample ID: FM-SS-2_SS DUP
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-5
Matrix: Solid
Percent Solids: 97.8

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	28	*	40 - 135	12/18/13 13:34	01/14/14 18:23	1
13C-2,3,7,8-TCDD	27	*	40 - 135	12/18/13 13:34	01/14/14 18:23	1
13C-1,2,3,7,8-PeCDD	24	*	40 - 135	12/18/13 13:34	01/14/14 18:23	1
13C-1,2,3,4,6,7,8-HpCDF	32	*	40 - 135	12/18/13 13:34	01/14/14 18:23	1
13C-1,2,3,7,8-PeCDF	25	*	40 - 135	12/18/13 13:34	01/14/14 18:23	1
13C-1,2,3,4,6,7,8-HpCDD	33	*	40 - 135	12/18/13 13:34	01/14/14 18:23	1
13C-OCDD	32	*	40 - 135	12/18/13 13:34	01/14/14 18:23	1
13C-1,2,3,4,7,8-HxCDF	23	*	40 - 135	12/18/13 13:34	01/14/14 18:23	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	75		2.0	0.23	pg/g	☼	12/18/13 13:34	01/16/14 22:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	26	*	40 - 135	12/18/13 13:34	01/16/14 22:10	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8700		92	65	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Antimony	3.0	U	4.6	3.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Barium	170		23	1.2	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Beryllium	0.78	U	2.3	0.78	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Cadmium	0.46	U	2.3	0.46	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Calcium	16000		1200	61	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Chromium	35		4.6	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Cobalt	10	J	23	4.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Copper	18		12	3.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Iron	14000		46	14	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Lead	12		4.6	0.79	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Magnesium	7000		460	38	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Manganese	550		4.6	0.71	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Nickel	18		18	1.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Potassium	2100	J	2300	1600	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Selenium	1.3	U	6.9	1.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Silver	1.1	U	4.6	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Sodium	450	J	460	220	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Titanium	1000		9.2	2.9	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Vanadium	71		23	5.8	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5
Zinc	40		23	9.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:16	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5	J	4.6	1.2	mg/Kg	☼	12/03/13 09:05	12/25/13 10:28	10
Niobium	24		12	1.8	mg/Kg	☼	12/03/13 09:05	12/25/13 10:28	10
Thallium	0.70	U	2.3	0.70	mg/Kg	☼	12/03/13 09:05	12/25/13 10:28	10
Uranium	4.0		0.46	0.092	mg/Kg	☼	12/03/13 09:05	12/25/13 10:28	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028	J	0.032	0.011	mg/Kg	☼	11/26/13 06:54	11/27/13 14:45	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-2_SS DUP
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-5
Matrix: Solid
Percent Solids: 97.8

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.5		0.21	0.041	mg/Kg	☼		12/09/13 22:28	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		41	4.1	mg/Kg	☼		12/10/13 16:22	20
Sulfate	4000		100	10	mg/Kg	☼		12/09/13 22:42	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	39.0		10.0	5.30	pCi/g		12/23/13 11:18	12/23/13 18:51	1
Gross Beta	35.3		10.0	2.80	pCi/g		12/23/13 11:18	12/23/13 18:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.81			0.147	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Bismuth-212	2.91			0.727	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Bismuth-214	1.74			0.177	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Bismuth-210M	0.0196	U		0.136	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Cesium-134	0.0235	U		0.0981	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Cesium-137	0.00411	U		0.0963	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Cobalt-57	-0.0105	U		0.0796	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Cobalt-60	-0.0174	U		0.125	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Lead-212	1.90			0.149	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Lead-214	1.77			0.189	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Potassium-40	23.5			0.947	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Protactinium-231	1.18	U		2.73	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Protactinium-234	0.00766	U		0.387	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Radium-224	2.35			2.26	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Thallium-208	0.633			0.0836	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Thorium-227	0.103	U		2.02	pCi/g		11/26/13 14:40	12/18/13 19:26	1
Thorium-234	2.85			2.50	pCi/g		11/26/13 14:40	12/18/13 19:26	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	1.76		1.00	0.117	pCi/g		11/26/13 13:36	12/24/13 07:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*11/26/13 13:36*	*12/24/13 07:59*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.630		1.00	0.447	pCi/g		11/26/13 14:00	12/20/13 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:26*	*1*
Y Carrier	*89.3*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:26*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.80		1.00	0.133	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-230	2.46		1.00	0.0351	pCi/g		12/16/13 15:38	12/27/13 20:54	1

Client Sample ID: FM-SS-2_SS DUP

Lab Sample ID: 680-96439-5

Date Collected: 11/20/13 12:00

Matrix: Solid

Date Received: 11/22/13 09:45

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-232	1.70		1.00	0.0711	pCi/g		12/16/13 15:38	12/27/13 20:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*81.1*		*30 - 110*	*12/16/13 15:38*	*12/27/13 20:54*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	2.06		1.00	0.0794	pCi/g		12/16/13 15:38	12/26/13 16:52	1
Uranium-235/236	0.0594	U	1.00	0.0761	pCi/g		12/16/13 15:38	12/26/13 16:52	1
Uranium-238	2.15		1.00	0.0793	pCi/g		12/16/13 15:38	12/26/13 16:52	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*89.1*		*30 - 110*	*12/16/13 15:38*	*12/26/13 16:52*	*1*

Client Sample ID: FM-SS-3_SS

Lab Sample ID: 680-96439-6

Date Collected: 11/20/13 13:00

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Acenaphthylene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Benzo[a]anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Benzo[b]fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Benzo[k]fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Benzo[g,h,i]perylene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Benzo[a]pyrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Chrysene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Dibenz(a,h)anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Fluorene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Indeno[1,2,3-cd]pyrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Naphthalene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Phenanthrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1
Pyrene	34	U *	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*69*		*53 - 97*	*12/02/13 12:17*	*12/03/13 23:49*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*46 - 111*	*12/02/13 12:17*	*12/03/13 23:49*	*1*
Nitrobenzene-d5 (Surr)	*73*		*55 - 98*	*12/02/13 12:17*	*12/03/13 23:49*	*1*
Phenol-d5 (Surr)	*63*		*54 - 101*	*12/02/13 12:17*	*12/03/13 23:49*	*1*
Terphenyl-d14 (Surr)	*66*		*58 - 123*	*12/02/13 12:17*	*12/03/13 23:49*	*1*
2-Fluorobiphenyl (Surr)	*77*		*56 - 97*	*12/02/13 12:17*	*12/03/13 23:49*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	66	J B	810	4.8	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-2	61	J B	810	4.6	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-3	76	J B	810	4.6	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-4	110	U	810	110	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-3_SS
Date Collected: 11/20/13 13:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-6
Matrix: Solid
Percent Solids: 98.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-5	120	U	810	120	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-6	120	U	810	120	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-7	110	U	810	110	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-8	120	U	810	120	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-9	130	U	810	130	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-10	67	U	810	67	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-11	**630**	**J B**	810	120	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-12/13	130	U	1600	130	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-14	100	U	810	100	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-15	**140**	**J**	810	130	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-16	**36**	**J**	810	25	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-17	**25**	**J q**	810	18	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-18/30	**73**	**J B**	1600	15	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-19	22	U	810	22	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-20/28	**150**	**J B**	1600	18	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-21/33	**110**	**J B**	1600	16	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-22	**43**	**J**	810	19	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-23	16	U	810	16	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-24	13	U	810	13	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-25	17	U	810	17	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-26/29	**110**	**J**	1600	17	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-27	13	U	810	13	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-31	**150**	**J B**	810	16	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-32	**16**	**J q**	810	10	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-34	17	U	810	17	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-35	**110**	**J q**	810	19	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-36	17	U	810	17	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-37	**78**	**J**	810	21	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-38	18	U	810	18	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-39	17	U	810	17	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-40/71	**110**	**J B**	1600	6.1	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-41	**24**	**J**	810	7.9	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-42	**41**	**J**	810	6.8	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-43	**20**	**J q**	810	6.9	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-44/47/65	**300**	**J B**	2400	5.8	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-45	**27**	**J**	810	6.8	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-46	7.2	U	810	7.2	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-48	**79**	**J**	810	6.2	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-49/69	**140**	**J B**	1600	5.1	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-50/53	**29**	**J**	1600	5.7	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-51	5.7	U	810	5.7	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-52	**730**	**J B**	810	6.3	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-54	7.8	U	810	7.8	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-55	41	U	810	41	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-56	**110**	**J B**	810	45	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-57	41	U	810	41	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-58	41	U	810	41	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-59/62/75	**36**	**J**	2400	4.5	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-60	**55**	**J**	810	43	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-3_SS
Date Collected: 11/20/13 13:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-6
Matrix: Solid
Percent Solids: 98.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-61/70/74/76	860	J B	3200	40	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-63	38	U	810	38	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-64	97	J B	810	4.2	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-66	260	J B	810	45	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-67	38	U	810	38	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-68	36	U	810	36	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-72	39	U	810	39	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-73	4.8	U	810	4.8	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-77	93		81	55	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-78	46	U	810	46	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-79	84	J q	810	40	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-80	38	U	810	38	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-81	54	U	81	54	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-82	130	J	810	51	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-83	55	U	810	55	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-84	190	J	810	46	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-85/116/117	250	J	2400	34	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-86/87/97/108/119/125	820	J	4900	35	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-88/91	77	J	1600	39	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-89	44	U	810	44	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-90/101/113	1100	J B	2400	35	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-92	210	J	810	41	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-93/100	39	U	1600	39	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-107/124	82	J	1600	32	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-94	41	U	810	41	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-95	700	J B	810	38	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-96	3.9	J q	810	3.3	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-98/102	37	U	1600	37	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-99	450	J	810	41	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-103	36	U	810	36	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-104	3.1	U	810	3.1	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-105	600		81	38	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-106	90	J	810	35	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-110/115	1200	J B	1600	31	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-109	76	J q	810	30	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-111	29	U	810	29	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-112	28	U	810	28	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-114	95	q	81	36	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-115	1200	J B	1600	31	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-118	1200	B	81	35	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-120	30	U	810	30	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-121	28	U	810	28	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-122	36	U	810	36	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-123	34	U	81	34	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-126	49	U	81	49	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-127	35	U	810	35	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-128/166	290	J	1600	16	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-129/138/163	1500	J B	2400	17	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-130	99	J q	810	22	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-3_SS
Date Collected: 11/20/13 13:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-6
Matrix: Solid
Percent Solids: 98.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-131	33	J	810	21	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-132	360	J	810	19	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-133	49	J	810	19	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-134/143	84	J	1600	20	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-135/151	410	J	1600	17	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-136	110	J	810	13	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-137	65	J	810	17	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-139/140	18	J q	1600	16	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-141	480	J	810	18	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-142	91	J	810	19	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-144	100	J	810	17	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-145	12	U	810	12	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-146	220	J	810	18	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-147/149	880	J B	1600	17	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-148	17	U	810	17	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-150	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-152	12	U	810	12	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-153/168	1300	J B	1600	14	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-154	16	J	810	15	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-155	11	U	810	11	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-156/157	300		160	32	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-158	170	J	810	13	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-159	25	U	810	25	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-160	160	J	810	15	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-161	13	U	810	13	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-162	24	U	810	24	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-164	99	J	810	14	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-165	15	U	810	15	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-167	71	J	81	23	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-169	34	U	81	34	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-170	330	J q	810	14	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-171/173	310	J	1600	13	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-172	94	J q	810	13	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-174	450	J	810	13	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-175	32	J	810	5.4	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-176	45	J	810	3.6	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-177	180	J	810	13	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-178	100	J	810	5.6	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-179	140	J	810	3.9	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-180/193	1200	J B	1600	10	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-181	34	J	810	11	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-182	16	J	810	5.0	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-183	200	J	810	9.6	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-184	23	J q	810	4.0	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-185	540	J	810	12	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-186	9.3	J q	810	3.8	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-187	700	J	810	5.2	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-188	13	J	810	3.3	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-189	55	J	81	14	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20

Client Sample ID: FM-SS-3_SS
Date Collected: 11/20/13 13:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-6
Matrix: Solid
Percent Solids: 98.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-190	250	J	810	9.7	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-191	26	J q	810	9.4	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-192	12	J q	810	9.7	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-194	430	J	810	24	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-195	110	J	810	22	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-196	150	J	810	6.9	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-197	49	J	810	4.6	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-198/199	1200	J	1600	7.1	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-200	170	J	810	4.7	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-201	93	J	810	4.6	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-202	260	J	810	4.4	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-203	550	J	810	6.4	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-204	41	J	810	4.8	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-205	140	J	810	23	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-206	2200		810	34	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-207	810		810	21	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-208	1200		810	22	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
PCB-209	460000	E B	810	99	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
Total Monochlorobiphenyls	200	J B	8100	4.7	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
Total Dichlorobiphenyls	770	J B	8100	110	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
Total Trichlorobiphenyls	900	J q B	8100	17	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
Total Tetrachlorobiphenyls	3100	J q B	8100	24	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
Total Pentachlorobiphenyls	7400	J q B	8100	35	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
Total Hexachlorobiphenyls	7000	J q B	8100	18	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
Total Heptachlorobiphenyls	4700	J q B	8100	8.6	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
Total Octachlorobiphenyls	3200	J	8100	10	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
Total Nonachlorobiphenyls	4200	J	8100	26	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20
Polychlorinated biphenyls, Total	490000	q B	8100	36	pg/g	☼	12/18/13 16:10	01/18/14 21:13	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*58*		*5 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-15L	*71*		*5 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-123L	*89*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-114L	*89*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-202L	*133*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-3L	*60*		*5 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-118L	*89*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-126L	*85*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-206L	*88*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-169L	*82*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-37L	*73*		*5 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-19L	*62*		*5 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-188L	*129*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-54L	*75*		*5 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-156L/157L	*85*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-167L	*89*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-209L	*101*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-189L	*90*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-105L	*90*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*
PCB-208L	*112*		*10 - 145*	*12/18/13 16:10*	*01/18/14 21:13*	*20*

Client Sample ID: FM-SS-3_SS
Date Collected: 11/20/13 13:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-6
Matrix: Solid
Percent Solids: 98.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	47		5 - 145	12/18/13 16:10	01/18/14 21:13	20
PCB-104L	82		10 - 145	12/18/13 16:10	01/18/14 21:13	20
PCB-81L	74		10 - 145	12/18/13 16:10	01/18/14 21:13	20
PCB-77L	75		10 - 145	12/18/13 16:10	01/18/14 21:13	20
PCB-205L	94		10 - 145	12/18/13 16:10	01/18/14 21:13	20
PCB-155L	79		10 - 145	12/18/13 16:10	01/18/14 21:13	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	60		5 - 145	12/18/13 16:10	01/18/14 21:13	20
PCB-111L	84		10 - 145	12/18/13 16:10	01/18/14 21:13	20
PCB-178L	88		10 - 145	12/18/13 16:10	01/18/14 21:13	20

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.7	J q	2.0	0.081	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
1,2,3,7,8-PeCDD	4.2	J	10	0.20	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
1,2,3,7,8-PeCDF	140		10	0.46	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
2,3,4,7,8-PeCDF	61		10	0.48	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
1,2,3,4,7,8-HxCDD	3.6	J q	10	0.27	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
1,2,3,6,7,8-HxCDD	7.0	J	10	0.19	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
1,2,3,7,8,9-HxCDD	6.6	J	10	0.20	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
1,2,3,4,7,8-HxCDF	700		10	0.78	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
1,2,3,6,7,8-HxCDF	120		10	0.58	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
1,2,3,7,8,9-HxCDF	23		10	0.75	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
2,3,4,6,7,8-HxCDF	56		10	0.68	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
1,2,3,4,6,7,8-HpCDD	43	B	10	0.40	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
1,2,3,4,6,7,8-HpCDF	980	B	10	1.4	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
1,2,3,4,7,8,9-HpCDF	480	B	10	1.7	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1
OCDD	450	B	20	0.38	pg/g	☼	12/18/13 13:34	01/14/14 19:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	92		40 - 135	12/18/13 13:34	01/14/14 19:05	1
13C-2,3,7,8-TCDD	95		40 - 135	12/18/13 13:34	01/14/14 19:05	1
13C-1,2,3,7,8-PeCDD	102		40 - 135	12/18/13 13:34	01/14/14 19:05	1
13C-1,2,3,4,6,7,8-HpCDF	105		40 - 135	12/18/13 13:34	01/14/14 19:05	1
13C-1,2,3,7,8-PeCDF	93		40 - 135	12/18/13 13:34	01/14/14 19:05	1
13C-1,2,3,4,6,7,8-HpCDD	118		40 - 135	12/18/13 13:34	01/14/14 19:05	1
13C-OCDD	134		40 - 135	12/18/13 13:34	01/14/14 19:05	1
13C-1,2,3,4,7,8-HxCDF	78		40 - 135	12/18/13 13:34	01/14/14 19:05	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDF	100000	B	400	97	pg/g	☼	12/18/13 13:34	01/29/14 05:47	20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-OCDD	121		40 - 135	12/18/13 13:34	01/29/14 05:47	20

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	130		2.0	0.16	pg/g	☼	12/18/13 13:34	01/16/14 22:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	101		40 - 135	12/18/13 13:34	01/16/14 22:49	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-3_SS
Date Collected: 11/20/13 13:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-6
Matrix: Solid
Percent Solids: 98.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5200		94	66	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Antimony	3.0	U	4.7	3.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Barium	110		23	1.2	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Beryllium	0.79	U	2.3	0.79	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Cadmium	0.47	U	2.3	0.47	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Calcium	18000		1200	62	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Chromium	290		4.7	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Cobalt	8.6	J	23	4.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Copper	54		12	3.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Iron	7800		47	14	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Lead	26		4.7	0.81	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Magnesium	4400		470	39	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Manganese	330		4.7	0.72	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Nickel	15	J	19	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Potassium	1600	U	2300	1600	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Selenium	1.4	U	7.0	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Silver	17		4.7	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Sodium	570		470	220	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Titanium	3200		9.4	3.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Vanadium	470		23	5.9	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5
Zinc	29		23	9.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:20	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.4	J	4.7	1.2	mg/Kg	☼	12/03/13 09:05	12/25/13 10:49	10
Niobium	300	B	59	8.9	mg/Kg	☼	12/03/13 09:05	12/26/13 18:14	50
Thallium	0.71	U	2.3	0.71	mg/Kg	☼	12/03/13 09:05	12/25/13 10:49	10
Uranium	48		0.47	0.093	mg/Kg	☼	12/03/13 09:05	12/25/13 10:49	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.086		0.032	0.011	mg/Kg	☼	11/26/13 06:54	11/27/13 14:47	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	3.9		0.20	0.041	mg/Kg	☼		12/09/13 22:57	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3800		100	10	mg/Kg	☼		12/09/13 23:11	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2300		200	20	mg/Kg	☼		12/10/13 16:37	100

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	348		10.0	4.97	pCi/g		12/23/13 11:18	12/23/13 18:51	1
Gross Beta	153		10.0	5.70	pCi/g		12/23/13 11:18	12/23/13 18:51	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-3_SS
Date Collected: 11/20/13 13:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-6
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	3.05			0.489	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Bismuth-212	4.46			1.55	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Bismuth-214	11.3			0.279	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Bismuth-210M	0.0261	U		0.354	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Cesium-134	0.0621	U		1.09	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Cesium-137	0.00278	U		0.242	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Cobalt-57	0.0104	U		0.186	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Cobalt-60	0.0591	U		0.265	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Lead-212	2.89			0.362	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Lead-214	11.3			0.543	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Potassium-40	16.2			2.49	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Protactinium-231	-3.01	U		7.48	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Protactinium-234	-0.281	U		0.955	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Radium-224	3.20	U		6.40	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Thallium-208	1.06			0.195	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Thorium-227	1.43			1.20	pCi/g		11/26/13 14:40	12/18/13 20:08	1
Thorium-234	22.0			6.13	pCi/g		11/26/13 14:40	12/18/13 20:08	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	14.7		1.00	0.103	pCi/g		11/26/13 13:36	12/24/13 07:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*105*		*40 - 110*	*11/26/13 13:36*	*12/24/13 07:59*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.94		1.00	0.385	pCi/g		11/26/13 14:00	12/20/13 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*105*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:26*	*1*
Y Carrier	*86.4*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:26*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	2.77		1.00	0.0821	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-230	28.3		1.00	0.0705	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-232	2.23		1.00	0.0345	pCi/g		12/16/13 15:38	12/27/13 20:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*82.2*		*30 - 110*	*12/16/13 15:38*	*12/27/13 20:54*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	28.6		1.00	0.0830	pCi/g		12/16/13 15:38	12/26/13 16:52	1
Uranium-235/236	1.55		1.00	0.0905	pCi/g		12/16/13 15:38	12/26/13 16:52	1
Uranium-238	28.3		1.00	0.0478	pCi/g		12/16/13 15:38	12/26/13 16:52	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*59.5*		*30 - 110*	*12/16/13 15:38*	*12/26/13 16:52*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-4_SS
Date Collected: 11/20/13 14:20
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-7
Matrix: Solid
Percent Solids: 95.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	43	B	42	2.3	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-2	51		42	2.2	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-3	62	B	42	2.2	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-4	28	J q	42	4.6	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-5	18	U	42	18	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-6	33	J	42	19	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-7	17	U	42	17	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-8	55		42	18	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-9	20	U	42	20	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-10	2.7	U	42	2.7	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-11	5100	E B	42	19	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-12/13	58	J	84	19	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-14	16	U	42	16	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-15	100		42	19	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-16	24	J	42	1.3	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-17	20	J	42	0.90	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-18/30	30	J	84	0.76	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-19	4.5	J q	42	1.1	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-20/28	97	B	84	6.7	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-21/33	67	J B	84	6.3	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-22	32	J	42	7.2	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-23	6.1	U	42	6.1	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-24	3.4	J q	42	0.66	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-25	8.8	J	42	6.3	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-26/29	55	J	84	6.4	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-27	4.4	J q	42	0.67	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-31	97	B	42	6.3	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-32	11	J	42	0.52	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-34	6.4	U	42	6.4	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-35	290		42	7.4	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-36	21	J q	42	6.5	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-37	60		42	8.1	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-38	11	J	42	7.0	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-39	6.5	U	42	6.5	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-40/71	69	J	84	1.2	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-41	12	J	42	1.6	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-42	31	J	42	1.4	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-43	10	J	42	1.4	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-44/47/65	300	B	130	1.2	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-45	11	J	42	1.4	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-46	5.2	J	42	1.5	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-48	40	J	42	1.3	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-49/69	150	B	84	1.0	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-50/53	18	J	84	1.2	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-51	2.2	J	42	1.2	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-52	750	B	42	1.3	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-54	1.3	J q	42	0.52	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-55	17	U	42	17	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-56	98		42	18	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-4_SS
Date Collected: 11/20/13 14:20
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-7
Matrix: Solid
Percent Solids: 95.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	16	U	42	16	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-58	17	U	42	17	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-59/62/75	**22**	**J**	130	0.92	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-60	**47**		42	17	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-61/70/74/76	**440**	**B**	170	16	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-63	15	U	42	15	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-64	**79**		42	0.87	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-66	**160**	**B**	42	18	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-67	15	U	42	15	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-68	15	U	42	15	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-72	16	U	42	16	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-73	**1.5**	**J**	42	0.98	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-77	**72**	**G**	20	20	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-78	19	U	42	19	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-79	**45**	**q**	42	16	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-80	15	U	42	15	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-81	19	U G	19	19	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-82	**150**		42	31	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-83	34	U	42	34	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-84	**130**		42	28	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-85/116/117	**240**		130	21	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-86/87/97/108/119/125	**840**		250	22	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-88/91	**53**	**J**	84	24	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-89	27	U	42	27	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-90/101/113	**1200**	**B**	130	22	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-92	**200**		42	25	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-93/100	24	U	84	24	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-107/124	**58**	**J**	84	20	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-94	25	U	42	25	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-95	**480**	**B**	42	24	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-96	**4.0**	**J q**	42	0.33	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-98/102	22	U	84	22	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-99	**590**		42	25	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-103	22	U	42	22	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-104	**2.4**	**J**	42	0.37	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-105	**660**	**G**	22	22	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-106	**40**	**J**	42	22	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-110/115	**1500**	**B**	84	19	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-109	**85**		42	18	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-111	18	U	42	18	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-112	17	U	42	17	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-114	**54**	**G**	21	21	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-118	**1500**	**B G**	20	20	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-120	19	U	42	19	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-121	18	U	42	18	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-122	22	U	42	22	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-123	20	U G	20	20	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-126	**31**	**G**	23	23	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-127	22	U	42	22	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-4_SS
Date Collected: 11/20/13 14:20
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-7
Matrix: Solid
Percent Solids: 95.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-128/166	260		84	9.6	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-129/138/163	1500	B	130	10	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-130	95		42	13	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-131	19	J	42	12	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-132	370	B	42	11	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-133	22	J	42	11	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-134/143	61	J	84	11	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-135/151	280		84	10	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-136	96		42	7.4	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-137	74		42	10	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-139/140	21	J	84	9.6	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-141	290		42	11	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-142	28	J	42	11	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-144	58		42	10	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-145	7.1	U	42	7.1	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-146	180		42	11	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-147/149	780	B	84	9.9	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-148	9.9	U	42	9.9	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-150	6.7	U	42	6.7	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-152	6.8	U	42	6.8	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-153/168	1200	B	84	8.3	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-154	13	J	42	8.8	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-155	9.0	U	42	9.0	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-156/157	260	G	12	12	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-158	160		42	7.6	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-159	10	U	42	10	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-160	56		42	8.8	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-161	7.6	U	42	7.6	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-162	9.6	U	42	9.6	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-164	99		42	8.5	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-165	8.8	U	42	8.8	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-167	75	G	9.3	9.3	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-169	11	G	10	10	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-170	310		42	4.3	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-171/173	150		84	4.0	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-172	82		42	4.1	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-174	310		42	4.1	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-175	29	J	42	0.70	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-176	33	J	42	0.47	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-177	140		42	4.1	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-178	66		42	0.73	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-179	91		42	0.51	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-180/193	990	B	84	3.3	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-181	10	J q	42	3.4	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-182	13	J	42	0.65	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-183	190		42	3.0	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-184	21	J	42	0.52	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-185	140	q	42	3.6	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-186	4.9	J	42	0.50	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-4_SS
Date Collected: 11/20/13 14:20
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-7
Matrix: Solid
Percent Solids: 95.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-187	480		42	0.68	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-188	12	J	42	0.52	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-189	32		4.2	2.8	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-190	150		42	3.1	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-191	28	J	42	3.0	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-192	10	J	42	3.1	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-194	310		42	11	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-195	48		42	10	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-196	130		42	3.9	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-197	49		42	2.6	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-198/199	640		84	4.1	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-200	68		42	2.7	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-201	67		42	2.6	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-202	150		42	3.2	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-203	310		42	3.6	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-204	31	J	42	2.7	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-205	70		42	7.6	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-206	1100		42	9.1	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-207	480		42	6.8	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
PCB-208	640		42	8.2	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
Total Monochlorobiphenyls	160	J B	420	2.3	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
Total Dichlorobiphenyls	5300	B q	420	16	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
Total Trichlorobiphenyls	840	B q	420	4.7	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
Total Tetrachlorobiphenyls	2400	B q	420	9.1	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
Total Pentachlorobiphenyls	7800	B q	420	21	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
Total Hexachlorobiphenyls	6100	B	420	9.6	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
Total Heptachlorobiphenyls	3300	B q	420	2.3	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
Total Octachlorobiphenyls	1900		420	4.9	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
Total Nonachlorobiphenyls	2200		420	8.0	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1
Polychlorinated biphenyls, Total	190000	B q	420	11	pg/g	☼	12/21/13 12:08	01/05/14 05:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*47*		*5 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-15L	*61*		*5 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-123L	*82*		*10 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-114L	*81*		*10 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-202L	*79*		*10 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-3L	*48*		*5 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-118L	*81*		*10 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-126L	*90*		*10 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-206L	*91*		*10 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-169L	*87*		*10 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-37L	*54*		*5 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-19L	*57*		*5 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-188L	*70*		*10 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-54L	*56*		*5 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-156L/157L	*81*		*10 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-167L	*75*		*10 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-189L	*76*		*10 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*
PCB-105L	*83*		*10 - 145*	*12/21/13 12:08*	*01/05/14 05:56*	*1*

Client Sample ID: FM-SS-4_SS
Date Collected: 11/20/13 14:20
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-7
Matrix: Solid
Percent Solids: 95.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-208L	84		10 - 145	12/21/13 12:08	01/05/14 05:56	1
PCB-1L	40		5 - 145	12/21/13 12:08	01/05/14 05:56	1
PCB-104L	59		10 - 145	12/21/13 12:08	01/05/14 05:56	1
PCB-81L	74		10 - 145	12/21/13 12:08	01/05/14 05:56	1
PCB-77L	74		10 - 145	12/21/13 12:08	01/05/14 05:56	1
PCB-205L	92		10 - 145	12/21/13 12:08	01/05/14 05:56	1
PCB-155L	55		10 - 145	12/21/13 12:08	01/05/14 05:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	52		5 - 145	12/21/13 12:08	01/05/14 05:56	1
PCB-111L	76		10 - 145	12/21/13 12:08	01/05/14 05:56	1
PCB-178L	72		10 - 145	12/21/13 12:08	01/05/14 05:56	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-209	**240000**	**E B**	2100	69	pg/g	☼	12/21/13 12:08	01/19/14 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-178L	114		10 - 145	12/21/13 12:08	01/19/14 15:11	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7900**		98	69	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Antimony	3.1	U	4.9	3.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Barium	**150**		25	1.2	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Beryllium	0.83	U	2.5	0.83	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Cadmium	0.49	U	2.5	0.49	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Calcium	**13000**		1200	65	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Chromium	**98**		4.9	1.5	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Cobalt	**10**	**J**	25	4.6	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Copper	**19**		12	3.6	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Iron	**12000**		49	15	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Lead	**17**		4.9	0.84	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Magnesium	**6300**		490	41	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Manganese	**480**		4.9	0.76	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Nickel	**19**	**J**	20	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Potassium	1700	U	2500	1700	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Selenium	1.4	U	7.4	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Silver	**2.1**	**J**	4.9	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Sodium	**820**		490	230	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Titanium	**1500**		9.8	3.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Vanadium	**140**		25	6.2	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5
Zinc	**52**		25	9.7	mg/Kg	☼	12/03/13 09:29	12/31/13 21:24	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.6**	**J**	4.9	1.3	mg/Kg	☼	12/03/13 09:05	12/25/13 10:56	10
Niobium	**66**		12	1.9	mg/Kg	☼	12/03/13 09:05	12/25/13 10:56	10
Thallium	0.75	U	2.5	0.75	mg/Kg	☼	12/03/13 09:05	12/25/13 10:56	10
Uranium	**15**		0.49	0.098	mg/Kg	☼	12/03/13 09:05	12/25/13 10:56	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-4_SS
Date Collected: 11/20/13 14:20
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-7
Matrix: Solid
Percent Solids: 95.3

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.030	0.010	mg/Kg	☼	11/26/13 06:54	11/27/13 14:53	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.4		0.21	0.042	mg/Kg	☼		12/09/13 23:26	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		42	4.2	mg/Kg	☼		12/10/13 16:51	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	4200		520	52	mg/Kg	☼		12/10/13 17:06	100

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	97.1		10.0	4.05	pCi/g		12/23/13 11:18	12/23/13 18:51	1
Gross Beta	32.9		10.0	4.99	pCi/g		12/23/13 11:18	12/23/13 18:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.05			0.275	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Bismuth-212	2.57			1.10	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Bismuth-214	3.28			0.163	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Bismuth-210M	0.0123	U		0.167	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Cesium-134	-0.0365	U		0.106	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Cesium-137	-0.00306	U		0.105	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Cobalt-57	0.0144	U		0.0840	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Cobalt-60	0.0130	U		0.104	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Lead-212	1.79			0.197	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Lead-214	3.57			0.227	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Potassium-40	25.5			0.687	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Protactinium-231	0.933	U		3.34	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Protactinium-234	-0.125	U		0.466	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Radium-224	1.46	U		2.94	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Thallium-208	0.675			0.0901	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Thorium-227	0.188	U		2.02	pCi/g		11/26/13 14:40	12/18/13 20:13	1
Thorium-234	3.94			2.67	pCi/g		11/26/13 14:40	12/18/13 20:13	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	3.08		1.00	0.104	pCi/g		11/26/13 13:36	12/24/13 08:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*40 - 110*	*11/26/13 13:36*	*12/24/13 08:00*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.27		1.00	0.349	pCi/g		11/26/13 14:00	12/20/13 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:26*	*1*

Client Sample ID: FM-SS-4_SS

Lab Sample ID: 680-96439-7

Date Collected: 11/20/13 14:20

Matrix: Solid

Date Received: 11/22/13 09:45

Method: 904.0 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	89.0		40 - 110	11/26/13 14:00	12/20/13 12:26	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.79		1.00	0.0952	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-230	6.12		1.00	0.0925	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-232	1.64		1.00	0.0625	pCi/g		12/16/13 15:38	12/27/13 20:54	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	78.6		30 - 110	12/16/13 15:38	12/27/13 20:54	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	5.98		1.00	0.0948	pCi/g		12/16/13 15:38	12/26/13 16:52	1
Uranium-235/236	0.311		1.00	0.0817	pCi/g		12/16/13 15:38	12/26/13 16:52	1
Uranium-238	6.00		1.00	0.0794	pCi/g		12/16/13 15:38	12/26/13 16:52	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	87.2		30 - 110	12/16/13 15:38	12/26/13 16:52	1

Client Sample ID: BY-SS-1_SS

Lab Sample ID: 680-96439-8

Date Collected: 11/20/13 15:10

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 98.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	50	B	40	0.49	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-2	42		40	0.48	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-3	68	B	40	0.48	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-4	45	q	40	3.7	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-5	8.6	J	40	1.9	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-6	43		40	1.9	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-7	4.9	J	40	1.8	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-8	95		40	1.9	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-9	24	J	40	2.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-10	2.2	U	40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-11	74	B	40	2.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-12/13	72	J	79	2.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-14	2.2	J	40	1.7	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-15	200		40	2.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-16	30	J	40	0.57	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-17	19	J	40	0.40	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-18/30	50	J	79	0.34	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-19	3.5	J	40	0.50	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-20/28	240	B	79	4.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-21/33	100	B	79	3.9	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-22	100		40	4.5	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-23	3.8	U	40	3.8	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-24	1.1	J	40	0.30	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-25	9.2	J	40	4.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: BY-SS-1_SS
Date Collected: 11/20/13 15:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-8
Matrix: Solid
Percent Solids: 98.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-26/29	26	J	79	4.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-27	3.9	J	40	0.30	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-31	200	B	40	3.9	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-32	15	J	40	0.23	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-34	4.0	U	40	4.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-35	46		40	4.6	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-36	4.1	U	40	4.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-37	340		40	5.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-38	4.3	U	40	4.3	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-39	5.6	J	40	4.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-40/71	110		79	1.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-41	17	J	40	1.4	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-42	55		40	1.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-43	5.3	J	40	1.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-44/47/65	330	B	120	1.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-45	13	J	40	1.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-46	5.6	J	40	1.3	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-48	32	J	40	1.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-49/69	150	B	79	0.88	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-50/53	16	J	79	0.99	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-51	2.5	J	40	0.99	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-52	740	B	40	1.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-54	0.53	J q	40	0.24	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-55	7.3	U	40	7.3	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-56	260		40	7.9	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-57	7.2	U	40	7.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-58	7.2	U	40	7.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-59/62/75	18	J	120	0.77	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-60	150		40	7.6	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-61/70/74/76	1100	B	160	7.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-63	14	J q	40	6.8	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-64	150		40	0.73	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-66	620	B	40	8.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-67	8.9	J	40	6.7	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-68	6.4	U	40	6.4	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-72	7.1	J	40	7.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-73	0.83	U	40	0.83	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-77	370	G	9.3	9.3	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-78	8.2	U	40	8.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-79	55		40	7.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-80	6.8	U	40	6.8	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-81	13	G	9.2	9.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-82	310	G	57	57	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-83	71	G	62	62	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-84	350	G	52	52	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-85/116/117	400		120	38	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-86/87/97/108/119/125	1500		240	39	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-88/91	160		79	44	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-89	49	U G	49	49	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: BY-SS-1_SS
Date Collected: 11/20/13 15:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-8
Matrix: Solid
Percent Solids: 98.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-90/101/113	2100	B	120	40	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-92	340	G	47	47	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-93/100	44	U	79	44	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-107/124	96		79	36	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-94	46	U G	46	46	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-95	1100	B G	43	43	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-96	4.8	J	40	0.18	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-98/102	41	U	79	41	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-99	1100	G	46	46	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-103	41	U G	41	41	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-104	0.78	J	40	0.18	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-105	1900	G	41	41	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-106	39	U	40	39	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-110/115	3700	B	79	35	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-109	220		40	34	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-111	32	U	40	32	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-112	31	U	40	31	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-114	47	G	40	40	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-118	3100	B G	37	37	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-120	34	U	40	34	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-121	32	U	40	32	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-122	40	U	40	40	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-123	38	U G	38	38	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-126	110	G	46	46	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-127	39	U	40	39	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-128/166	840		79	12	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-129/138/163	4600	B	120	12	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-130	280		40	16	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-131	31	J	40	15	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-132	1100	B	40	14	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-133	39	J	40	14	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-134/143	120		79	14	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-135/151	540		79	12	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-136	170		40	9.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-137	220		40	12	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-139/140	50	J	79	12	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-141	630		40	13	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-142	14	U	40	14	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-144	95		40	12	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-145	8.8	U	40	8.8	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-146	460		40	13	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-147/149	1800	B	79	12	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-148	12	U	40	12	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-150	8.2	U	40	8.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-152	8.4	U	40	8.4	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-153/168	2800	B	79	10	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-154	22	J	40	11	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-155	9.6	U	40	9.6	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-156/157	780	G	9.1	9.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: BY-SS-1_SS
Date Collected: 11/20/13 15:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-8
Matrix: Solid
Percent Solids: 98.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-158	530		40	9.4	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-159	28	J	40	7.5	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-160	11	U	40	11	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-161	9.4	U	40	9.4	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-162	36	J	40	7.3	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-164	310		40	10	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-165	11	U	40	11	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-167	280	G	7.1	7.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-169	13	G	8.2	8.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-170	1300		40	3.3	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-171/173	300		79	3.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-172	220		40	3.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-174	890		40	3.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-175	49		40	0.55	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-176	67		40	0.37	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-177	510		40	3.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-178	130		40	0.57	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-179	180		40	0.40	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-180/193	2600	B	79	2.5	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-181	19	J	40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-182	18	J	40	0.51	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-183	400		40	2.3	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-184	37	J	40	0.41	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-185	94		40	2.7	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-186	3.0	J	40	0.39	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-187	780		40	0.53	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-188	22	J	40	0.42	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-189	67		4.0	0.93	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-190	270		40	2.3	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-191	77		40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-192	7.4	J	40	2.3	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-194	600		40	2.4	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-195	150		40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-196	310		40	1.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-197	190		40	0.72	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-198/199	570		79	1.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-200	60		40	0.73	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-201	180		40	0.73	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-202	110		40	0.92	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-203	350		40	1.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-204	47		40	0.76	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-205	61		40	1.6	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-206	840		40	3.3	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-207	1500		40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
PCB-208	940		40	3.0	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
Total Monochlorobiphenyls	160	J B	400	0.48	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
Total Dichlorobiphenyls	570	B q	400	2.1	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
Total Trichlorobiphenyls	1200	B	400	2.9	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
Total Tetrachlorobiphenyls	4300	B q	400	4.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1

Client Sample ID: BY-SS-1_SS
Date Collected: 11/20/13 15:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-8
Matrix: Solid
Percent Solids: 98.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Pentachlorobiphenyls	17000	B	400	39	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
Total Hexachlorobiphenyls	16000	B	400	11	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
Total Heptachlorobiphenyls	8000	B	400	1.7	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
Total Octachlorobiphenyls	2600		400	1.2	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
Total Nonachlorobiphenyls	3300		400	2.9	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1
Polychlorinated biphenyls, Total	100000	B q	400	7.5	pg/g	☼	12/21/13 12:08	01/05/14 11:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*47*		*5 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-15L	*56*		*5 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-123L	*82*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-114L	*80*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-202L	*74*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-3L	*46*		*5 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-118L	*82*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-126L	*86*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-206L	*83*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-169L	*91*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-37L	*62*		*5 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-19L	*54*		*5 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-188L	*65*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-54L	*59*		*5 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-156L/157L	*86*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-167L	*83*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-189L	*73*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-105L	*83*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-208L	*79*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-1L	*37*		*5 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-104L	*62*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-81L	*73*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-77L	*75*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-205L	*85*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-155L	*62*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*56*		*5 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-111L	*79*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*
PCB-178L	*80*		*10 - 145*	*12/21/13 12:08*	*01/05/14 11:20*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-209	52000	B	790	25	pg/g	☼	12/21/13 12:08	01/12/14 10:43	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-209L	*67*		*10 - 145*	*12/21/13 12:08*	*01/12/14 10:43*	*20*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-178L	*74*		*10 - 145*	*12/21/13 12:08*	*01/12/14 10:43*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7700		87	61	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5

Client Sample ID: BY-SS-1_SS
Date Collected: 11/20/13 15:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-8
Matrix: Solid
Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.8	U	4.3	2.8	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Barium	**170**		22	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Beryllium	0.73	U	2.2	0.73	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Cadmium	0.43	U	2.2	0.43	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Calcium	**20000**		1100	58	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Chromium	**32**		4.3	1.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Cobalt	**16**	**J**	22	4.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Copper	**64**		11	3.2	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Iron	**16000**		43	13	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Lead	**25**		4.3	0.75	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Magnesium	**10000**		430	36	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Manganese	**1700**		4.3	0.67	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Nickel	**26**		17	0.98	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Potassium	**1500**	**J**	2200	1500	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Selenium	1.3	U	6.5	1.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Silver	1.0	U	4.3	1.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Sodium	**670**		430	200	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Titanium	**960**		8.7	2.7	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Vanadium	**58**		22	5.5	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5
Zinc	**62**		22	8.6	mg/Kg	☼	12/03/13 09:29	12/31/13 21:28	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.8**	**J**	4.3	1.1	mg/Kg	☼	12/03/13 09:05	12/25/13 11:02	10
Niobium	**10**	**J**	11	1.6	mg/Kg	☼	12/03/13 09:05	12/25/13 11:02	10
Thallium	0.66	U	2.2	0.66	mg/Kg	☼	12/03/13 09:05	12/25/13 11:02	10
Uranium	**1.5**		0.43	0.086	mg/Kg	☼	12/03/13 09:05	12/25/13 11:02	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.031	0.010	mg/Kg	☼	11/26/13 06:54	11/27/13 14:48	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**11**		4.0	0.81	mg/Kg	☼		12/10/13 00:38	20
Sulfate	**910**		100	10	mg/Kg	☼		12/10/13 00:38	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3100**		400	40	mg/Kg	☼		12/10/13 17:20	200

Client Sample ID: NS-SS-1_SS
Date Collected: 11/20/13 09:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-9
Matrix: Solid
Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Acenaphthylene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Anthracene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Benzo[a]anthracene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1

Client Sample ID: NS-SS-1_SS
Date Collected: 11/20/13 09:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-9
Matrix: Solid
Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Benzo[k]fluoranthene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Benzo[g,h,i]perylene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Benzo[a]pyrene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Chrysene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Dibenz(a,h)anthracene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Fluoranthene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Fluorene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Indeno[1,2,3-cd]pyrene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Naphthalene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Phenanthrene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1
Pyrene	35	U *	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*89*		*53 - 97*	*12/02/13 12:17*	*12/04/13 00:22*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*46 - 111*	*12/02/13 12:17*	*12/04/13 00:22*	*1*
Nitrobenzene-d5 (Surr)	*87*		*55 - 98*	*12/02/13 12:17*	*12/04/13 00:22*	*1*
Phenol-d5 (Surr)	*83*		*54 - 101*	*12/02/13 12:17*	*12/04/13 00:22*	*1*
Terphenyl-d14 (Surr)	*77*		*58 - 123*	*12/02/13 12:17*	*12/04/13 00:22*	*1*
2-Fluorobiphenyl (Surr)	*88*		*56 - 97*	*12/02/13 12:17*	*12/04/13 00:22*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**1600**	**B**	430	9.6	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-2	**1400**	**B**	430	9.7	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-3	**1600**	**B**	430	10	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-4	**2300**		430	64	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-5	**250**	**J**	430	120	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-6	**2100**		430	120	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-7	**250**	**J**	430	110	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-8	**6300**		430	120	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-9	**740**		430	130	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-10	**86**	**J**	430	37	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-11	**1100**		430	120	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-12/13	**3500**		850	120	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-14	**250**	**J**	430	100	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-15	**3800**		430	120	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-16	**1100**		430	15	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-17	**650**		430	11	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-18/30	**1700**		850	9.0	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-19	**170**	**J**	430	13	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-20/28	**2200**	**B**	850	250	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-21/33	**3600**	**B**	850	230	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-22	**2000**		430	270	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-23	230	U	430	230	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-24	**180**	**J**	430	7.8	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-25	**550**		430	230	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-26/29	**1100**		850	240	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-27	**180**	**J**	430	7.9	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-31	**5000**	**B**	430	230	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: NS-SS-1_SS
Date Collected: 11/20/13 09:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-9
Matrix: Solid
Percent Solids: 94.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-32	360	J	430	6.2	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-34	340	J	430	240	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-35	1000		430	270	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-36	590		430	240	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-37	3900		430	290	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-38	420	J	430	260	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-39	1200		430	240	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-40/71	2600		850	7.9	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-41	310	J	430	10	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-42	440		430	8.8	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-43	270	J	430	9.1	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-44/47/65	1800	B	1300	7.6	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-45	230	J	430	8.9	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-46	86	J	430	9.5	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-48	430		430	8.1	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-49/69	1100	B	850	6.6	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-50/53	310	J	850	7.5	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-51	130	J	430	7.4	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-52	2100	B	430	8.3	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-54	33	J	430	3.8	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-55	400	J	430	140	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-56	1600		430	150	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-57	370	J	430	140	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-58	270	J	430	140	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-59/62/75	1100	J	1300	5.8	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-60	710		430	140	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-61/70/74/76	5700	B	1700	130	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-63	470		430	130	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-64	540	B	430	5.5	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-66	2600		430	150	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-67	440		430	130	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-68	480		430	120	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-72	640		430	130	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-73	140	J	430	6.3	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-77	1100	G	170	170	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-78	610		430	150	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-79	800		430	130	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-80	380	J	430	130	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-81	710	G	160	160	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-82	1000	G	500	500	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-83	540	U G	540	540	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-84	920	G	450	450	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-85/116/117	2800		1300	340	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-86/87/97/108/119/125	5300	B	2600	340	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-88/91	1100		850	380	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-89	1100		430	430	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-90/101/113	4200	B	1300	350	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-92	1000		430	410	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-93/100	660	J	850	380	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: NS-SS-1_SS
Date Collected: 11/20/13 09:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-9
Matrix: Solid
Percent Solids: 94.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-107/124	1100		850	320	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-94	410	U	430	410	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-95	2200	B	430	380	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-96	130	J	430	4.0	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-98/102	580	J	850	360	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-99	2100		430	400	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-103	370	J	430	350	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-104	150	J	430	4.0	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-105	2800	G	380	380	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-106	3100		430	350	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-110/115	8000	B	850	310	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-109	1800		430	290	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-111	660		430	280	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-112	270	U	430	270	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-114	1000	G	350	350	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-118	4700	B G	330	330	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-120	830		430	300	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-121	410	J	430	280	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-122	380	J	430	350	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-123	330	U G	330	330	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-126	870	G	360	360	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-127	680		430	340	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-128/166	1300		850	160	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-129/138/163	5100	B	1300	170	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-130	2800		430	220	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-131	530		430	210	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-132	1300		430	200	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-133	1000		430	190	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-134/143	650	J	850	200	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-135/151	1700		850	170	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-136	410	J	430	130	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-137	1100		430	170	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-139/140	1100		850	170	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-141	3400		430	180	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-142	730		430	190	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-144	880		430	170	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-145	230	J	430	120	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-146	3300		430	180	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-147/149	2600	B	850	170	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-148	810		430	170	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-150	450		430	110	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-152	190	J	430	120	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-153/168	3200	B	850	140	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-154	1300		430	150	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-155	530		430	130	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-156/157	2600	G	300	300	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-158	1600		430	130	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-159	1000		430	250	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-160	770		430	150	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10

Client Sample ID: NS-SS-1_SS
Date Collected: 11/20/13 09:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-9
Matrix: Solid
Percent Solids: 94.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-161	730		430	130	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-162	1300		430	240	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-164	2100		430	150	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-165	490		430	150	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-167	2500	G	250	250	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-169	430	G	260	260	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-170	1700		430	73	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-171/173	6500		850	67	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-172	3300		430	69	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-174	2100		430	69	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-175	2900		430	11	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-176	1600		430	7.1	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-177	1700		430	69	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-178	1900		430	11	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-179	1200		430	7.7	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-180/193	12000	B	850	56	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-181	1200		430	57	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-182	1800		430	9.9	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-183	3400		430	51	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-184	3100		430	7.9	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-185	890		430	62	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-186	490		430	7.5	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-187	2500		430	10	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-188	1700		430	8.5	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-189	2700	G	58	58	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-190	2600		430	52	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-191	1800		430	50	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-192	1200		430	52	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-194	3700		430	85	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-195	2000		430	79	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-196	8600		430	110	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-197	7100		430	77	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-198/199	9600		850	120	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-200	2100		430	78	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-201	6700		430	77	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-202	2100		430	96	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-203	4200		430	110	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-204	5000		430	80	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-205	4600		430	57	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-206	29000		430	76	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-207	42000		430	58	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-208	25000		430	71	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
PCB-209	340000	E B	430	37	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
Total Monochlorobiphenyls	4600	B	4300	9.8	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
Total Dichlorobiphenyls	21000		4300	110	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
Total Trichlorobiphenyls	26000	B	4300	160	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
Total Tetrachlorobiphenyls	29000	B	4300	74	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
Total Pentachlorobiphenyls	50000	B	4300	340	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
Total Hexachlorobiphenyls	48000	B	4300	180	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10

Client Sample ID: NS-SS-1_SS
Date Collected: 11/20/13 09:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-9
Matrix: Solid
Percent Solids: 94.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Heptachlorobiphenyls	58000	B	4300	39	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
Total Octachlorobiphenyls	56000		4300	88	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
Total Nonachlorobiphenyls	95000		4300	68	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10
Polychlorinated biphenyls, Total	730000	B	4300	110	pg/g	☼	12/19/13 17:37	02/07/14 09:12	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*62*		*5 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-15L	*81*		*5 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-123L	*89*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-114L	*86*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-202L	*81*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-3L	*68*		*5 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-118L	*88*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-126L	*99*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-206L	*92*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-169L	*112*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-37L	*81*		*5 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-19L	*66*		*5 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-188L	*66*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-54L	*71*		*5 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-156L/157L	*97*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-167L	*92*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-209L	*99*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-189L	*81*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-105L	*87*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-208L	*88*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-1L	*58*		*5 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-104L	*65*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-81L	*91*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-77L	*94*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-205L	*88*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-155L	*71*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*83*		*5 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-111L	*92*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*
PCB-178L	*100*		*10 - 145*	*12/19/13 17:37*	*02/07/14 09:12*	*10*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	250		43	6.0	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
1,2,3,7,8-PeCDD	760		210	11	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
1,2,3,7,8-PeCDF	9400		210	38	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
2,3,4,7,8-PeCDF	4900	B	210	39	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
1,2,3,4,7,8-HxCDD	480	B	210	4.6	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
1,2,3,6,7,8-HxCDD	1200	B	210	4.1	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
1,2,3,7,8,9-HxCDD	1100	B	210	3.8	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
1,2,3,4,7,8-HxCDF	23000	B	210	31	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
1,2,3,6,7,8-HxCDF	10000	B	210	27	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
1,2,3,7,8,9-HxCDF	1200	B	210	32	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
2,3,4,6,7,8-HxCDF	4200	B	210	29	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20

Client Sample ID: NS-SS-1_SS
Date Collected: 11/20/13 09:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-9
Matrix: Solid
Percent Solids: 94.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	3900	B	210	9.4	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
1,2,3,4,6,7,8-HpCDF	43000	B	210	29	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
1,2,3,4,7,8,9-HpCDF	16000	B	210	34	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
OCDD	4500	B	430	2.4	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20
OCDF	130000	B	430	9.8	pg/g	☼	12/19/13 15:47	01/14/14 00:26	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*113*		*40 - 135*	*12/19/13 15:47*	*01/14/14 00:26*	*20*
13C-2,3,7,8-TCDD	*94*		*40 - 135*	*12/19/13 15:47*	*01/14/14 00:26*	*20*
13C-1,2,3,7,8-PeCDD	*93*		*40 - 135*	*12/19/13 15:47*	*01/14/14 00:26*	*20*
13C-1,2,3,4,6,7,8-HpCDF	*112*		*40 - 135*	*12/19/13 15:47*	*01/14/14 00:26*	*20*
13C-1,2,3,7,8-PeCDF	*100*		*40 - 135*	*12/19/13 15:47*	*01/14/14 00:26*	*20*
13C-2,3,7,8-TCDF	*105*		*40 - 135*	*12/19/13 15:47*	*01/14/14 00:26*	*20*
13C-1,2,3,4,6,7,8-HpCDD	*100*		*40 - 135*	*12/19/13 15:47*	*01/14/14 00:26*	*20*
13C-OCDD	*91*		*40 - 135*	*12/19/13 15:47*	*01/14/14 00:26*	*20*
13C-1,2,3,4,7,8-HxCDF	*108*		*40 - 135*	*12/19/13 15:47*	*01/14/14 00:26*	*20*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RADL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	4500	B G	100	100	pg/g	☼	12/19/13 15:47	01/14/14 05:34	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*109*		*40 - 135*	*12/19/13 15:47*	*01/14/14 05:34*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7400		96	67	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Antimony	3.1	U	4.8	3.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Barium	400		24	1.2	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Beryllium	0.81	U	2.4	0.81	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Cadmium	0.48	U	2.4	0.48	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Calcium	14000		1200	64	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Chromium	290		4.8	1.5	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Cobalt	11	J	24	4.5	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Copper	26		12	3.5	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Iron	12000		48	14	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Lead	32		4.8	0.83	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Magnesium	6800		480	40	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Manganese	950		4.8	0.74	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Nickel	23		19	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Potassium	1700	J	2400	1600	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Selenium	1.4	U	7.2	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Silver	1.1	U	4.8	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Sodium	430	J	480	230	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Titanium	1000		9.6	3.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Vanadium	500		24	6.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5
Zinc	45		24	9.5	mg/Kg	☼	12/03/13 09:29	12/31/13 21:31	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.6		4.8	1.2	mg/Kg	☼	12/03/13 09:05	12/25/13 11:09	10
Niobium	21		12	1.8	mg/Kg	☼	12/03/13 09:05	12/25/13 11:09	10

Client Sample ID: NS-SS-1_SS
Date Collected: 11/20/13 09:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-9
Matrix: Solid
Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.73	U	2.4	0.73	mg/Kg	☼	12/03/13 09:05	12/25/13 11:09	10
Uranium	**4.3**		0.48	0.096	mg/Kg	☼	12/03/13 09:05	12/25/13 11:09	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.058**		0.031	0.010	mg/Kg	☼	11/26/13 06:54	11/27/13 14:50	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**7.9**		0.21	0.042	mg/Kg	☼		12/10/13 00:52	1
Sulfate	**97**		5.3	0.53	mg/Kg	☼		12/10/13 00:52	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**350**		42	4.2	mg/Kg	☼		12/10/13 18:03	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	**61.5**		10.0	4.63	pCi/g		12/23/13 11:18	12/23/13 18:51	1
Gross Beta	**39.0**		10.0	3.16	pCi/g		12/23/13 11:18	12/23/13 18:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	**2.01**			0.258	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Bismuth-212	**3.62**			1.11	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Bismuth-214	**2.01**			0.194	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Bismuth-210M	0.0498	U		0.135	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Cesium-134	0.0751	U		0.239	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Cesium-137	-0.0000406	U		0.119	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Cobalt-57	0.0199	U		0.0765	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Cobalt-60	0.000	U		0.102	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Lead-212	**2.11**			0.160	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Lead-214	**2.30**			0.213	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Potassium-40	**25.8**			0.643	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Protactinium-231	0.753	U		2.92	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Protactinium-234	0.0674	U		0.388	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Radium-224	**2.73**			2.29	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Thallium-208	**0.749**			0.106	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Thorium-227	0.0770	U		1.98	pCi/g		11/26/13 14:40	12/18/13 20:12	1
Thorium-234	**2.98**			2.48	pCi/g		11/26/13 14:40	12/18/13 20:12	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**2.59**		1.00	0.0987	pCi/g		11/26/13 13:36	12/24/13 08:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*108*		*40 - 110*	*11/26/13 13:36*	*12/24/13 08:00*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**0.939**		1.00	0.418	pCi/g		11/26/13 14:00	12/20/13 12:26	1

Client Sample ID: NS-SS-1_SS

Lab Sample ID: 680-96439-9

Date Collected: 11/20/13 09:25

Matrix: Solid

Date Received: 11/22/13 09:45

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110	11/26/13 14:00	12/20/13 12:26	1
Y Carrier	87.5		40 - 110	11/26/13 14:00	12/20/13 12:26	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	2.12		1.00	0.105	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-230	2.85		1.00	0.0896	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-232	2.11		1.00	0.0663	pCi/g		12/16/13 15:38	12/27/13 20:54	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	81.7		30 - 110	12/16/13 15:38	12/27/13 20:54	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	2.68		1.00	0.0670	pCi/g		12/16/13 15:38	12/26/13 16:52	1
Uranium-235/236	0.103		1.00	0.0697	pCi/g		12/16/13 15:38	12/26/13 16:52	1
Uranium-238	2.84		1.00	0.0448	pCi/g		12/16/13 15:38	12/26/13 16:52	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	93.8		30 - 110	12/16/13 15:38	12/26/13 16:52	1

Client Sample ID: NS-SS-5_SS

Lab Sample ID: 680-96439-10

Date Collected: 11/20/13 09:50

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 97.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Acenaphthylene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Benzo[a]anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Benzo[b]fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Benzo[k]fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Benzo[g,h,i]perylene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Benzo[a]pyrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Chrysene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Dibenz(a,h)anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Fluorene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Indeno[1,2,3-cd]pyrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Naphthalene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Phenanthrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1
Pyrene	34	U *	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	90		53 - 97	12/02/13 12:17	12/04/13 00:55	1
2,4,6-Tribromophenol (Surr)	80		46 - 111	12/02/13 12:17	12/04/13 00:55	1
Nitrobenzene-d5 (Surr)	87		55 - 98	12/02/13 12:17	12/04/13 00:55	1
Phenol-d5 (Surr)	84		54 - 101	12/02/13 12:17	12/04/13 00:55	1
Terphenyl-d14 (Surr)	78		58 - 123	12/02/13 12:17	12/04/13 00:55	1
2-Fluorobiphenyl (Surr)	89		56 - 97	12/02/13 12:17	12/04/13 00:55	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: NS-SS-5_SS
Date Collected: 11/20/13 09:50
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-10
Matrix: Solid
Percent Solids: 97.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	16	J B	41	0.53	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-2	6.0	J B	41	0.54	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-3	38	J B	41	0.56	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-4	4.9	U	41	4.9	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-5	6.3	U	41	6.3	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-6	6.3	U	41	6.3	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-7	5.9	U	41	5.9	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-8	16	J	41	6.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-9	6.7	U	41	6.7	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-10	2.7	U	41	2.7	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-11	11	J	41	6.5	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-12/13	12	J q	82	6.6	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-14	5.5	U	41	5.5	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-15	26	J	41	6.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-16	2.2	J q	41	1.8	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-17	1.3	U	41	1.3	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-18/30	4.5	J	82	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-19	3.3	J q	41	1.7	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-20/28	15	J B	82	1.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-21/33	7.0	J B	82	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-22	5.4	J	41	1.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-23	1.0	U	41	1.0	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-24	0.95	U	41	0.95	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-25	1.3	J	41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-26/29	2.3	J	82	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-27	0.96	U	41	0.96	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-31	13	J B	41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-32	1.0	J q	41	0.75	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-34	1.1	U	41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-35	1.9	J q	41	1.3	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-36	1.1	U	41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-37	21	J	41	1.3	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-38	1.2	U	41	1.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-39	1.1	U	41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-40/71	25	J	82	0.94	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-41	1.2	U	41	1.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-42	12	J	41	1.0	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-43	1.1	U	41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-44/47/65	140	B	120	0.90	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-45	3.7	J	41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-46	1.7	J	41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-48	6.7	J	41	0.96	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-49/69	65	J B	82	0.78	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-50/53	10	J	82	0.88	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-51	1.5	J	41	0.88	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-52	420	B	41	0.98	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-54	3.3	J	41	0.65	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-55	2.2	U	41	2.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-56	26	J q	41	2.4	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: NS-SS-5_SS
Date Collected: 11/20/13 09:50
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-10
Matrix: Solid
Percent Solids: 97.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	2.2	U	41	2.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-58	2.2	U	41	2.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-59/62/75	**2.7**	**J**	120	0.69	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-60	**13**	**J q**	41	2.3	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-61/70/74/76	**250**	**B**	160	2.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-63	**3.0**	**J**	41	2.0	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-64	**39**	**J B**	41	0.65	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-66	**65**	**q**	41	2.4	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-67	2.0	U	41	2.0	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-68	1.9	U	41	1.9	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-72	2.1	U	41	2.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-73	0.74	U	41	0.74	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-77	**20**		4.1	2.6	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-78	2.5	U	41	2.5	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-79	**23**	**J**	41	2.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-80	2.0	U	41	2.0	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-81	2.5	U	4.1	2.5	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-82	**140**		41	22	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-83	**44**		41	24	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-84	**320**		41	20	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-85/116/117	**160**		120	15	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-86/87/97/108/119/125	**730**	**B**	250	15	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-88/91	**130**		82	17	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-89	19	U	41	19	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-90/101/113	**1100**	**B**	120	15	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-92	**210**		41	18	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-93/100	17	U	82	17	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-107/124	**34**	**J q**	82	14	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-94	18	U	41	18	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-95	**900**	**B**	41	17	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-96	**4.9**	**J**	41	0.42	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-98/102	**16**	**J**	82	16	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-99	**500**		41	18	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-103	16	U	41	16	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-104	**2.1**	**J**	41	0.42	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-105	**360**	**G**	16	16	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-106	15	U	41	15	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-110/115	**1400**	**B**	82	13	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-109	**61**		41	13	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-111	12	U	41	12	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-112	12	U	41	12	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-114	**18**	**q G**	15	15	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-118	**820**	**B G**	14	14	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-120	13	U	41	13	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-121	12	U	41	12	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-122	15	U	41	15	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-123	14	U G	14	14	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-126	18	U G	18	18	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-127	15	U	41	15	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: NS-SS-5_SS
Date Collected: 11/20/13 09:50
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-10
Matrix: Solid
Percent Solids: 97.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-128/166	230		82	7.0	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-129/138/163	1300	B	120	7.3	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-130	90		41	9.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-131	19	J	41	8.8	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-132	410		41	8.3	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-133	12	J	41	8.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-134/143	61	J	82	8.3	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-135/151	240		82	7.4	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-136	110		41	5.4	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-137	84		41	7.3	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-139/140	23	J	82	7.0	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-141	180		41	7.8	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-142	8.1	U	41	8.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-144	41		41	7.3	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-145	5.2	U	41	5.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-146	140		41	7.8	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-147/149	700	B	82	7.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-148	7.2	U	41	7.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-150	4.8	U	41	4.8	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-152	5.0	U	41	5.0	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-153/168	790	B	82	6.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-154	9.2	J	41	6.4	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-155	5.7	U	41	5.7	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-156/157	220		8.2	2.5	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-158	150		41	5.5	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-159	2.1	U	41	2.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-160	6.4	U	41	6.4	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-161	5.6	U	41	5.6	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-162	5.9	J	41	2.0	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-164	86		41	6.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-165	6.4	U	41	6.4	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-167	69		4.1	1.9	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-169	2.4	U	4.1	2.4	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-170	250		41	1.6	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-171/173	71	J	82	1.5	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-172	40	J	41	1.5	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-174	180		41	1.5	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-175	8.2	J	41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-176	15	J	41	0.74	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-177	100		41	1.5	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-178	21	J	41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-179	38	J	41	0.80	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-180/193	430	B	82	1.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-181	5.1	J	41	1.3	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-182	2.5	J	41	1.0	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-183	94		41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-184	3.2	J	41	0.82	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-185	11	J	41	1.4	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-186	0.78	U	41	0.78	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1

Client Sample ID: NS-SS-5_SS
Date Collected: 11/20/13 09:50
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-10
Matrix: Solid
Percent Solids: 97.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-187	130		41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-188	2.6	J	41	0.87	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-189	13		4.1	0.95	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-190	46		41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-191	8.8	J q	41	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-192	1.2	U	41	1.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-194	95		41	0.96	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-195	23	J	41	0.89	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-196	44		41	1.0	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-197	15	J	41	0.68	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-198/199	71	J	82	1.1	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-200	7.1	J	41	0.70	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-201	16	J	41	0.69	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-202	13	J	41	0.89	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-203	49		41	0.95	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-204	4.8	J q	41	0.72	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-205	9.3	J q	41	0.62	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-206	150		41	0.89	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-207	110		41	0.66	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-208	83		41	0.79	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
PCB-209	2200	B	41	0.83	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
Total Monochlorobiphenyls	59	J B	410	0.55	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
Total Dichlorobiphenyls	64	J q	410	5.8	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
Total Trichlorobiphenyls	77	J B q	410	1.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
Total Tetrachlorobiphenyls	1100	B q	410	1.6	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
Total Pentachlorobiphenyls	6900	B q	410	15	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
Total Hexachlorobiphenyls	5000	B	410	6.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
Total Heptachlorobiphenyls	1500	B q	410	1.2	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
Total Octachlorobiphenyls	350	J q	410	0.84	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
Total Nonachlorobiphenyls	340	J	410	0.78	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1
Polychlorinated biphenyls, Total	18000	B q	410	3.4	pg/g	☼	12/19/13 17:37	02/10/14 13:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*42*		*5 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-15L	*65*		*5 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-123L	*73*		*10 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-114L	*73*		*10 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-202L	*65*		*10 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-3L	*50*		*5 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-118L	*74*		*10 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-126L	*77*		*10 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-206L	*78*		*10 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-169L	*100*		*10 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-37L	*72*		*5 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-19L	*52*		*5 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-188L	*53*		*10 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-54L	*46*		*5 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-156L/157L	*89*		*10 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-167L	*88*		*10 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*
PCB-209L	*74*		*10 - 145*	*12/19/13 17:37*	*02/10/14 13:28*	*1*

Client Sample ID: NS-SS-5_SS
Date Collected: 11/20/13 09:50
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-10
Matrix: Solid
Percent Solids: 97.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-189L	74		10 - 145	12/19/13 17:37	02/10/14 13:28	1
PCB-105L	74		10 - 145	12/19/13 17:37	02/10/14 13:28	1
PCB-208L	77		10 - 145	12/19/13 17:37	02/10/14 13:28	1
PCB-1L	42		5 - 145	12/19/13 17:37	02/10/14 13:28	1
PCB-104L	54		10 - 145	12/19/13 17:37	02/10/14 13:28	1
PCB-81L	80		10 - 145	12/19/13 17:37	02/10/14 13:28	1
PCB-77L	81		10 - 145	12/19/13 17:37	02/10/14 13:28	1
PCB-205L	81		10 - 145	12/19/13 17:37	02/10/14 13:28	1
PCB-155L	60		10 - 145	12/19/13 17:37	02/10/14 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	72		5 - 145	12/19/13 17:37	02/10/14 13:28	1
PCB-111L	77		10 - 145	12/19/13 17:37	02/10/14 13:28	1
PCB-178L	79		10 - 145	12/19/13 17:37	02/10/14 13:28	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.34	J	2.0	0.064	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
1,2,3,7,8-PeCDD	0.66	J q	10	0.16	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
1,2,3,7,8-PeCDF	12		10	0.26	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
2,3,4,7,8-PeCDF	6.7	J B	10	0.27	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
1,2,3,4,7,8-HxCDD	0.91	J B q	10	0.13	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
1,2,3,6,7,8-HxCDD	1.9	J B	10	0.089	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
1,2,3,7,8,9-HxCDD	2.0	J B q	10	0.092	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
1,2,3,4,7,8-HxCDF	26	B	10	0.20	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
1,2,3,6,7,8-HxCDF	16	B	10	0.15	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
1,2,3,7,8,9-HxCDF	2.0	J B q	10	0.19	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
2,3,4,6,7,8-HxCDF	5.9	J B	10	0.18	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
1,2,3,4,6,7,8-HpCDD	6.1	J B	10	0.24	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
1,2,3,4,6,7,8-HpCDF	72	B	10	0.23	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
1,2,3,4,7,8,9-HpCDF	24	B	10	0.27	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
OCDD	16	J B	20	0.21	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1
OCDF	350	B	20	0.29	pg/g	☼	12/19/13 15:47	01/07/14 19:31	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	77		40 - 135	12/19/13 15:47	01/07/14 19:31	1
13C-2,3,7,8-TCDD	89		40 - 135	12/19/13 15:47	01/07/14 19:31	1
13C-1,2,3,7,8-PeCDD	89		40 - 135	12/19/13 15:47	01/07/14 19:31	1
13C-1,2,3,4,6,7,8-HpCDF	86		40 - 135	12/19/13 15:47	01/07/14 19:31	1
13C-1,2,3,7,8-PeCDF	90		40 - 135	12/19/13 15:47	01/07/14 19:31	1
13C-1,2,3,4,6,7,8-HpCDD	91		40 - 135	12/19/13 15:47	01/07/14 19:31	1
13C-OCDD	98		40 - 135	12/19/13 15:47	01/07/14 19:31	1
13C-1,2,3,4,7,8-HxCDF	78		40 - 135	12/19/13 15:47	01/07/14 19:31	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	8.8	B	2.0	0.12	pg/g	☼	12/19/13 15:47	01/14/14 02:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	93		40 - 135	12/19/13 15:47	01/14/14 02:26	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: NS-SS-5_SS
Date Collected: 11/20/13 09:50
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-10
Matrix: Solid
Percent Solids: 97.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7800		92	64	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Antimony	2.9	U	4.6	2.9	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Barium	130		23	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Beryllium	0.77	U	2.3	0.77	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Cadmium	0.46	U	2.3	0.46	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Calcium	14000		1100	61	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Chromium	15		4.6	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Cobalt	9.8	J	23	4.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Copper	19		11	3.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Iron	11000		46	14	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Lead	11		4.6	0.79	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Magnesium	5500		460	38	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Manganese	460		4.6	0.70	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Nickel	16	J	18	1.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Potassium	2000	J	2300	1500	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Selenium	1.3	U	6.9	1.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Silver	1.1	U	4.6	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Sodium	440	J	460	220	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Titanium	650		9.2	2.9	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Vanadium	37		23	5.8	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5
Zinc	38		23	9.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:35	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1	J	4.6	1.2	mg/Kg	☼	12/03/13 09:05	12/25/13 11:16	10
Niobium	3.7	J	11	1.7	mg/Kg	☼	12/03/13 09:05	12/25/13 11:16	10
Thallium	0.70	U	2.3	0.70	mg/Kg	☼	12/03/13 09:05	12/25/13 11:16	10
Uranium	1.0		0.46	0.091	mg/Kg	☼	12/03/13 09:05	12/25/13 11:16	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.030	0.010	mg/Kg	☼	11/26/13 06:54	11/27/13 14:51	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.7		0.21	0.041	mg/Kg	☼		12/10/13 01:21	1
Chloride	22		2.1	0.21	mg/Kg	☼		12/10/13 18:18	1
Sulfate	39		5.2	0.52	mg/Kg	☼		12/10/13 01:21	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	26.9		10.0	4.91	pCi/g		12/23/13 11:18	12/23/13 18:51	1
Gross Beta	29.4		10.0	2.59	pCi/g		12/23/13 11:18	12/23/13 18:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.69			0.170	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Bismuth-212	1.63			1.20	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Bismuth-214	1.05			0.139	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Bismuth-210M	0.0269	U		0.112	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Cesium-134	0.0166	U		0.0691	pCi/g		11/26/13 14:40	12/18/13 20:11	1

Client Sample ID: NS-SS-5_SS
Date Collected: 11/20/13 09:50
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-10
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Cesium-137	-0.0374	U		0.112	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Cobalt-57	0.0322	U		0.0738	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Cobalt-60	0.0123	U		0.132	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Lead-212	**1.77**			0.154	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Lead-214	**1.05**			0.163	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Potassium-40	**26.5**			0.657	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Protactinium-231	0.550	U		2.78	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Protactinium-234	0.0431	U		0.373	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Radium-224	2.25	U		2.31	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Thallium-208	**0.570**			0.0856	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Thorium-227	**6.19**			0.510	pCi/g		11/26/13 14:40	12/18/13 20:11	1
Thorium-234	1.11	U		2.14	pCi/g		11/26/13 14:40	12/18/13 20:11	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**0.911**		1.00	0.0976	pCi/g		11/26/13 13:36	12/24/13 08:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.1*		*40 - 110*	*11/26/13 13:36*	*12/24/13 08:00*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**0.894**		1.00	0.467	pCi/g		11/26/13 14:00	12/20/13 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.1*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:26*	*1*
Y Carrier	*88.6*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:26*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.98**		1.00	0.0891	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-230	**1.88**		1.00	0.0652	pCi/g		12/16/13 15:38	12/27/13 20:54	1
Thorium-232	**1.94**		1.00	0.0568	pCi/g		12/16/13 15:38	12/27/13 20:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*75.8*		*30 - 110*	*12/16/13 15:38*	*12/27/13 20:54*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.968**		1.00	0.0460	pCi/g		12/16/13 15:38	12/26/13 17:11	1
Uranium-235/236	**0.0503**		1.00	0.0377	pCi/g		12/16/13 15:38	12/26/13 17:11	1
Uranium-238	**0.894**		1.00	0.0524	pCi/g		12/16/13 15:38	12/26/13 17:11	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*90.2*		*30 - 110*	*12/16/13 15:38*	*12/26/13 17:11*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: BY-SS-3_SS
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-11
Matrix: Solid
Percent Solids: 96.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	35	U	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Acenaphthylene	35	U	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Anthracene	35	U	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Benzo[a]anthracene	35	U	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Benzo[b]fluoranthene	35	U *	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Benzo[k]fluoranthene	35	U *	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Benzo[g,h,i]perylene	35	U *	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Benzo[a]pyrene	35	U *	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Chrysene	35	U	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Dibenz(a,h)anthracene	35	U *	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Fluoranthene	35	U	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Fluorene	35	U	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Indeno[1,2,3-cd]pyrene	35	U *	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Naphthalene	35	U	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Phenanthrene	35	U	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1
Pyrene	35	U *	340	35	ug/Kg	☼	12/02/13 12:17	12/04/13 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*66*		*53 - 97*	*12/02/13 12:17*	*12/04/13 01:29*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*46 - 111*	*12/02/13 12:17*	*12/04/13 01:29*	*1*
Nitrobenzene-d5 (Surr)	*67*		*55 - 98*	*12/02/13 12:17*	*12/04/13 01:29*	*1*
Phenol-d5 (Surr)	*63*		*54 - 101*	*12/02/13 12:17*	*12/04/13 01:29*	*1*
Terphenyl-d14 (Surr)	*75*		*58 - 123*	*12/02/13 12:17*	*12/04/13 01:29*	*1*
2-Fluorobiphenyl (Surr)	*76*		*56 - 97*	*12/02/13 12:17*	*12/04/13 01:29*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**19**	**J B**	820	5.4	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-2	**13**	**J B**	820	5.3	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-3	**16**	**J B**	820	5.4	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-4	100	U	820	100	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-5	87	U	820	87	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-6	87	U	820	87	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-7	82	U	820	82	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-8	85	U	820	85	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-9	92	U	820	92	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-10	61	U	820	61	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-11	90	U	820	90	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-12/13	91	U	1600	91	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-14	76	U	820	76	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-15	89	U	820	89	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-16	26	U	820	26	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-17	18	U	820	18	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-18/30	16	U	1600	16	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-19	23	U	820	23	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-20/28	**40**	**J B**	1600	9.9	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-21/33	9.3	U	1600	9.3	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-22	11	U	820	11	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-23	9.0	U	820	9.0	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-24	13	U	820	13	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: BY-SS-3_SS
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-11
Matrix: Solid
Percent Solids: 96.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-25	9.3	U	820	9.3	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-26/29	9.4	U	1600	9.4	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-27	14	U	820	14	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-31	**36**	**J B**	820	9.3	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-32	11	U	820	11	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-34	9.4	U	820	9.4	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-35	11	U	820	11	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-36	9.6	U	820	9.6	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-37	**56**	**J**	820	12	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-38	10	U	820	10	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-39	9.6	U	820	9.6	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-40/71	**18**	**J q**	1600	5.5	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-41	7.1	U	820	7.1	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-42	**16**	**J**	820	6.1	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-43	6.3	U	820	6.3	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-44/47/65	**100**	**J B**	2500	5.2	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-45	6.2	U	820	6.2	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-46	6.5	U	820	6.5	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-48	5.6	U	820	5.6	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-49/69	**48**	**J B**	1600	4.6	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-50/53	5.2	U	1600	5.2	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-51	5.1	U	820	5.1	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-52	**310**	**J B**	820	5.7	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-54	7.2	U	820	7.2	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-55	9.6	U	820	9.6	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-56	**60**	**J q**	820	10	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-57	9.4	U	820	9.4	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-58	9.5	U	820	9.5	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-59/62/75	**4.8**	**J q**	2500	4.0	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-60	**39**	**J q**	820	10	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-61/70/74/76	**330**	**J B**	3300	9.3	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-63	8.9	U	820	8.9	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-64	**54**	**J B**	820	3.8	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-66	**200**	**J**	820	11	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-67	8.8	U	820	8.8	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-68	8.5	U	820	8.5	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-72	9.2	U	820	9.2	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-73	4.3	U	820	4.3	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-77	**240**		82	12	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-78	11	U	820	11	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-79	**25**	**J**	820	9.3	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-80	8.9	U	820	8.9	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-81	12	U	82	12	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-82	**220**	**J**	820	41	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-83	**54**	**J**	820	45	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-84	**220**	**J**	820	37	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-85/116/117	**280**	**J**	2500	28	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-86/87/97/108/119/125	**940**	**J B**	4900	28	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-88/91	**120**	**J**	1600	31	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20

Client Sample ID: BY-SS-3_SS
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-11
Matrix: Solid
Percent Solids: 96.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-89	35	U	820	35	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-90/101/113	**1300**	**J B**	2500	29	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-92	**230**	**J**	820	34	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-93/100	32	U	1600	32	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-107/124	**77**	**J q**	1600	26	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-94	33	U	820	33	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-95	**610**	**J B**	820	31	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-96	4.2	U	820	4.2	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-98/102	29	U	1600	29	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-99	**610**	**J**	820	33	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-103	29	U	820	29	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-104	4.1	U	820	4.1	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-105	**1100**		82	29	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-106	28	U	820	28	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-110/115	**2400**	**B**	1600	25	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-109	**160**	**J**	820	24	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-111	23	U	820	23	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-112	22	U	820	22	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-114	29	U	82	29	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-118	**2100**	**B**	82	28	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-120	25	U	820	25	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-121	23	U	820	23	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-122	29	U	820	29	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-123	28	U	82	28	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-126	**90**		82	35	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-127	28	U	820	28	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-128/166	**600**	**J**	1600	14	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-129/138/163	**3000**	**B**	2500	15	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-130	**200**	**J**	820	19	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-131	**22**	**J q**	820	18	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-132	**680**	**J**	820	17	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-133	**29**	**J**	820	17	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-134/143	**95**	**J**	1600	17	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-135/151	**310**	**J**	1600	15	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-136	**94**	**J**	820	11	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-137	**170**	**J**	820	15	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-139/140	**36**	**J**	1600	15	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-141	**360**	**J**	820	16	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-142	17	U	820	17	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-144	**58**	**J**	820	15	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-145	11	U	820	11	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-146	**280**	**J**	820	16	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-147/149	**1100**	**J B**	1600	15	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-148	15	U	820	15	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-150	10	U	820	10	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-152	10	U	820	10	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-153/168	**1700**	**B**	1600	13	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-154	13	U	820	13	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-155	11	U	820	11	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: BY-SS-3_SS
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-11
Matrix: Solid
Percent Solids: 96.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-156/157	520		160	12	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-158	340	J	820	11	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-159	9.9	U	820	9.9	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-160	13	U	820	13	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-161	12	U	820	12	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-162	21	J	820	9.6	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-164	180	J	820	13	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-165	13	U	820	13	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-167	190		82	9.6	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-169	11	U	82	11	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-170	620	J	820	8.4	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-171/173	150	J	1600	7.7	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-172	91	J	820	7.9	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-174	370	J	820	7.9	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-175	25	J	820	7.1	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-176	25	J	820	4.7	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-177	240	J	820	7.9	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-178	60	J	820	7.4	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-179	73	J q	820	5.2	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-180/193	960	J B	1600	6.4	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-181	6.5	U	820	6.5	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-182	6.8	J q	820	6.6	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-183	190	J	820	5.9	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-184	14	J	820	5.3	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-185	22	J q	820	7.1	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-186	5.0	U	820	5.0	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-187	330	J	820	6.8	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-188	8.8	J q	820	5.1	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-189	31	J	82	6.6	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-190	110	J	820	5.9	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-191	24	J	820	5.7	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-192	5.9	U	820	5.9	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-194	180	J	820	6.1	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-195	54	J q	820	5.7	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-196	110	J	820	11	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-197	42	J q	820	7.1	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-198/199	220	J	1600	11	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-200	15	J q	820	7.2	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-201	62	J	820	7.1	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-202	39	J	820	8.5	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-203	120	J	820	9.8	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-204	15	J q	820	7.4	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-205	30	J	820	4.3	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-206	250	J	820	6.9	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-207	290	J	820	5.1	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-208	200	J	820	6.2	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
PCB-209	2700	B	820	6.0	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
Total Monochlorobiphenyls	48	J B	8200	5.4	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
Total Dichlorobiphenyls	100	U	8200	100	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20

Client Sample ID: BY-SS-3_SS
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-11
Matrix: Solid
Percent Solids: 96.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Trichlorobiphenyls	130	J B	8200	12	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
Total Tetrachlorobiphenyls	1400	J B q	8200	7.7	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
Total Pentachlorobiphenyls	11000	B q	8200	28	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
Total Hexachlorobiphenyls	9900	B q	8200	14	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
Total Heptachlorobiphenyls	3400	J B q	8200	6.5	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
Total Octachlorobiphenyls	890	J q	8200	7.7	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
Total Nonachlorobiphenyls	750	J	8200	6.0	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20
Polychlorinated biphenyls, Total	30000	B q	8200	20	pg/g	☼	12/19/13 17:37	01/22/14 00:37	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*56*		*5 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-15L	*79*		*5 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-123L	*81*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-114L	*81*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-202L	*81*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-3L	*52*		*5 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-118L	*81*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-126L	*86*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-206L	*91*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-169L	*107*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-37L	*76*		*5 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-19L	*70*		*5 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-188L	*76*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-54L	*79*		*5 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-156L/157L	*87*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-167L	*87*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-209L	*84*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-189L	*82*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-105L	*86*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-208L	*90*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-1L	*41*		*5 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-104L	*65*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-81L	*86*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-77L	*93*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-205L	*87*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-155L	*67*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*70*		*5 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-111L	*80*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*
PCB-178L	*93*		*10 - 145*	*12/19/13 17:37*	*01/22/14 00:37*	*20*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	19	J B	41	0.93	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-2	16	J B	41	0.85	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-3	19	J B	41	0.81	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-4	28	J	41	17	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-5	7.2	U	41	7.2	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-6	25	J	41	7.2	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-7	6.7	U	41	6.7	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: BY-SS-3_SS
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-11
Matrix: Solid
Percent Solids: 96.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - RA (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-8	46		41	7.0	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-9	9.6	J	41	7.6	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-10	9.5	U	41	9.5	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-11	32	J q	41	7.4	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-12/13	41	J q	82	7.5	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-14	6.3	U	41	6.3	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-15	44	q	41	7.2	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-16	6.9	J	41	0.89	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-17	4.2	J	41	0.63	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-18/30	13	J	82	0.53	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-19	0.79	U	41	0.79	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-20/28	40	J B	82	1.9	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-21/33	17	J B	82	1.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-22	19	J	41	2.1	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-23	1.8	U	41	1.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-24	0.84	J	41	0.46	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-25	2.3	J q	41	1.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-26/29	8.1	J	82	1.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-27	1.1	J	41	0.47	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-31	37	J B	41	1.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-32	2.8	J	41	0.36	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-34	1.8	U	41	1.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-35	15	J	41	2.1	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-36	3.0	J	41	1.9	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-37	59		41	2.3	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-38	2.0	U	41	2.0	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-39	4.3	J	41	1.9	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-40/71	26	J	82	0.92	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-41	1.2	U	41	1.2	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-42	14	J	41	1.0	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-43	1.0	U	41	1.0	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-44/47/65	120	B	120	0.88	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-45	2.6	J	41	1.0	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-46	1.1	U	41	1.1	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-48	4.8	J	41	0.94	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-49/69	56	J B	82	0.77	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-50/53	5.1	J	82	0.86	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-51	0.86	U	41	0.86	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-52	360	B	41	0.96	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-54	0.37	U	41	0.37	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-55	3.9	U	41	3.9	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-56	83		41	4.2	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-57	3.8	U	41	3.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-58	3.8	U	41	3.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-59/62/75	5.4	J	120	0.68	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-60	54		41	4.0	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-61/70/74/76	390	B	160	3.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-63	6.0	J q	41	3.6	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-64	64	B	41	0.64	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: BY-SS-3_SS
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-11
Matrix: Solid
Percent Solids: 96.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - RA (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-66	**230**		41	4.3	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-67	3.6	U	41	3.6	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-68	3.4	U	41	3.4	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-72	**4.1**	**J**	41	3.7	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-73	0.72	U	41	0.72	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-77	**280**	**G**	4.9	4.9	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-78	4.3	U	41	4.3	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-79	**40**	**J**	41	3.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-80	3.6	U	41	3.6	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-81	**7.0**	**q G**	4.6	4.6	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-82	**200**		41	27	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-83	**52**		41	30	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-84	**220**		41	25	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-85/116/117	**270**		120	18	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-86/87/97/108/119/125	**970**	**B**	250	19	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-88/91	**110**		82	21	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-89	23	U	41	23	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-90/101/113	**1300**	**B**	120	19	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-92	**230**		41	22	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-93/100	21	U	82	21	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-107/124	**80**	**J**	82	17	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-94	22	U	41	22	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-95	**660**	**B**	41	21	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-96	**1.8**	**J**	41	0.32	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-98/102	20	U	82	20	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-99	**710**		41	22	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-103	19	U	41	19	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-104	**0.50**	**J**	41	0.31	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-105	**1200**	**G**	20	20	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-106	19	U	41	19	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-110/115	**2600**	**B**	82	17	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-109	**160**		41	16	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-111	15	U	41	15	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-112	15	U	41	15	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-114	**23**	**G**	19	19	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-115	**2600**	**B**	82	17	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-118	**2200**	**B G**	18	18	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-120	16	U	41	16	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-121	15	U	41	15	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-122	**24**	**J**	41	19	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-123	**25**	**G**	19	19	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-126	**94**	**G**	21	21	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-127	19	U	41	19	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-128/166	**610**		82	7.4	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-129/138/163	**3000**	**B**	120	7.7	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-130	**200**		41	9.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-131	**23**	**J**	41	9.3	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-132	**700**		41	8.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-133	**27**	**J**	41	8.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: BY-SS-3_SS
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-11
Matrix: Solid
Percent Solids: 96.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - RA (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-134/143	83		82	8.9	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-135/151	320		82	7.9	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-136	100		41	5.7	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-137	150	q	41	7.7	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-139/140	34	J	82	7.5	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-141	320		41	8.3	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-142	8.6	U	41	8.6	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-144	55		41	7.7	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-145	5.5	U	41	5.5	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-146	300		41	8.3	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-147/149	1100	B	82	7.7	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-148	7.7	U	41	7.7	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-150	5.2	U	41	5.2	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-152	5.3	U	41	5.3	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-153/168	1800	B	82	6.5	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-154	13	J	41	6.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-155	5.8	U	41	5.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-156/157	520		8.2	6.1	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-158	330		41	5.9	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-159	5.0	U	41	5.0	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-160	6.8	U	41	6.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-161	5.9	U	41	5.9	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-162	21	J	41	4.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-164	180		41	6.5	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-165	6.8	U	41	6.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-167	180	G	4.8	4.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-169	5.3	U G	5.3	5.3	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-170	600		41	1.8	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-171/173	150		82	1.7	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-172	99		41	1.7	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-174	370		41	1.7	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-175	26	J	41	0.82	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-176	29	J	41	0.55	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-177	230		41	1.7	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-178	59		41	0.86	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-179	73		41	0.60	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-180/193	980	B	82	1.4	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-181	10	J	41	1.4	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-182	9.0	J	41	0.76	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-183	180		41	1.3	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-184	13	J	41	0.61	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-185	19	J q	41	1.6	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-186	1.5	J	41	0.58	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-187	320		41	0.79	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-188	9.2	J	41	0.63	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-189	34		4.1	0.69	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-190	110		41	1.3	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-191	22	J q	41	1.3	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-192	3.3	J q	41	1.3	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1

Client Sample ID: BY-SS-3_SS
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-11
Matrix: Solid
Percent Solids: 96.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - RA (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-194	180		41	1.2	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-195	60		41	1.2	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-196	130		41	0.72	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-197	54		41	0.48	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-198/199	210		82	0.75	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-200	19	J	41	0.49	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-201	60		41	0.49	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-202	39	J	41	0.59	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-203	120		41	0.67	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-204	24	J	41	0.51	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-205	28	J	41	0.85	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-206	260		41	1.2	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-207	290		41	0.87	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-208	210		41	1.0	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
PCB-209	2700	B	41	0.46	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
Total Monochlorobiphenyls	54	J B	410	0.86	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
Total Dichlorobiphenyls	230	J q	410	8.2	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
Total Trichlorobiphenyls	230	J B q	410	1.4	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
Total Tetrachlorobiphenyls	1700	B q	410	2.4	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
Total Pentachlorobiphenyls	11000	B	410	19	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
Total Hexachlorobiphenyls	10000	B q	410	7.0	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
Total Heptachlorobiphenyls	3400	B q	410	1.1	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
Total Octachlorobiphenyls	920		410	0.72	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
Total Nonachlorobiphenyls	750		410	1.0	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1
Polychlorinated biphenyls, Total	31000	B q	410	4.2	pg/g	☼	12/19/13 17:37	02/06/14 19:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*51*		*5 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-15L	*74*		*5 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-123L	*83*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-114L	*82*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-202L	*82*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-3L	*56*		*5 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-118L	*83*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-126L	*91*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-206L	*85*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-169L	*106*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-37L	*79*		*5 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-19L	*65*		*5 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-188L	*76*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-54L	*55*	*q*	*5 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-156L/157L	*92*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-167L	*89*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-209L	*84*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-189L	*88*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-105L	*84*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-208L	*91*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-1L	*43*		*5 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-104L	*65*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*
PCB-81L	*84*		*10 - 145*	*12/19/13 17:37*	*02/06/14 19:00*	*1*

Client Sample ID: BY-SS-3_SS
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-11
Matrix: Solid
Percent Solids: 96.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - RA (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-77L	84		10 - 145	12/19/13 17:37	02/06/14 19:00	1
PCB-205L	87		10 - 145	12/19/13 17:37	02/06/14 19:00	1
PCB-155L	68		10 - 145	12/19/13 17:37	02/06/14 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	79		5 - 145	12/19/13 17:37	02/06/14 19:00	1
PCB-111L	85		10 - 145	12/19/13 17:37	02/06/14 19:00	1
PCB-178L	91		10 - 145	12/19/13 17:37	02/06/14 19:00	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.1	J	2.1	0.058	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
1,2,3,7,8-PeCDD	3.7	J	10	0.097	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
1,2,3,7,8-PeCDF	41		10	0.22	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
2,3,4,7,8-PeCDF	24	B	10	0.23	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
1,2,3,4,7,8-HxCDD	3.4	J B	10	0.10	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
1,2,3,6,7,8-HxCDD	5.6	J B	10	0.073	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
1,2,3,7,8,9-HxCDD	6.8	J B	10	0.075	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
1,2,3,4,7,8-HxCDF	110	B	10	0.27	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
1,2,3,6,7,8-HxCDF	55	B	10	0.20	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
1,2,3,7,8,9-HxCDF	6.9	J B	10	0.26	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
2,3,4,6,7,8-HxCDF	17	B	10	0.23	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
1,2,3,4,6,7,8-HpCDD	24	B	10	0.15	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
1,2,3,4,6,7,8-HpCDF	200	B	10	0.74	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
1,2,3,4,7,8,9-HpCDF	65	B	10	0.87	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
OCDD	45	B	21	0.12	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1
OCDF	610	B	21	0.30	pg/g	☼	12/19/13 15:47	01/07/14 20:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	90		40 - 135	12/19/13 15:47	01/07/14 20:13	1
13C-2,3,7,8-TCDD	93		40 - 135	12/19/13 15:47	01/07/14 20:13	1
13C-1,2,3,7,8-PeCDD	92		40 - 135	12/19/13 15:47	01/07/14 20:13	1
13C-1,2,3,4,6,7,8-HpCDF	104		40 - 135	12/19/13 15:47	01/07/14 20:13	1
13C-1,2,3,7,8-PeCDF	91		40 - 135	12/19/13 15:47	01/07/14 20:13	1
13C-1,2,3,4,6,7,8-HpCDD	108		40 - 135	12/19/13 15:47	01/07/14 20:13	1
13C-OCDD	109		40 - 135	12/19/13 15:47	01/07/14 20:13	1
13C-1,2,3,4,7,8-HxCDF	86		40 - 135	12/19/13 15:47	01/07/14 20:13	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	30	B	2.1	0.12	pg/g	☼	12/19/13 15:47	01/14/14 03:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	96		40 - 135	12/19/13 15:47	01/14/14 03:05	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		94	66	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Antimony	3.0	U	4.7	3.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Barium	210		24	1.2	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Beryllium	0.80	U	2.4	0.80	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Cadmium	0.47	U	2.4	0.47	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5

Client Sample ID: BY-SS-3_SS
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-11
Matrix: Solid
Percent Solids: 96.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	24000		1200	63	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Chromium	15		4.7	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Cobalt	9.2	J	24	4.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Copper	21		12	3.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Iron	15000		47	14	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Lead	17		4.7	0.81	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Magnesium	12000		470	39	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Manganese	570		4.7	0.73	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Nickel	17	J	19	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Potassium	3300		2400	1600	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Selenium	1.4	U	7.1	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Silver	1.1	U	4.7	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Sodium	4500		470	220	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Titanium	840		9.4	3.0	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Vanadium	37		24	5.9	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5
Zinc	47		24	9.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:39	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5	J	4.7	1.2	mg/Kg	☼	12/03/13 09:05	12/25/13 11:23	10
Niobium	2.0	J	12	1.8	mg/Kg	☼	12/03/13 09:05	12/25/13 11:23	10
Thallium	0.72	U	2.4	0.72	mg/Kg	☼	12/03/13 09:05	12/25/13 11:23	10
Uranium	0.73		0.47	0.094	mg/Kg	☼	12/03/13 09:05	12/25/13 11:23	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.033	0.011	mg/Kg	☼	11/26/13 06:54	11/27/13 14:55	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	14		4.1	0.83	mg/Kg	☼		12/10/13 02:04	20
Sulfate	570		100	10	mg/Kg	☼		12/10/13 02:04	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4500		410	41	mg/Kg	☼		12/10/13 18:32	200

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	27.5		10.0	4.43	pCi/g		12/23/13 11:18	12/23/13 18:51	1
Gross Beta	27.9		10.0	2.37	pCi/g		12/23/13 11:18	12/23/13 18:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.65			0.270	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Bismuth-212	2.17			0.663	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Bismuth-214	1.04			0.164	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Bismuth-210M	0.0403	U		0.110	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Cesium-134	-0.0127	U		0.0872	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Cesium-137	0.00960	U		0.0821	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Cobalt-57	0.0255	U		0.0554	pCi/g		11/26/13 14:40	12/18/13 21:38	1

Client Sample ID: BY-SS-3_SS
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-11
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt-60	-0.00167	U		0.0894	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Lead-212	**1.62**			0.123	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Lead-214	**0.943**			0.136	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Potassium-40	**22.5**			0.983	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Protactinium-231	0.648	U		2.18	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Protactinium-234	-0.0258	U		0.304	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Radium-224	**1.75**			1.40	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Thallium-208	**0.523**			0.0792	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Thorium-227	0.173	U		1.63	pCi/g		11/26/13 14:40	12/18/13 21:38	1
Thorium-234	0.938	U		1.93	pCi/g		11/26/13 14:40	12/18/13 21:38	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**0.953**		1.00	0.0922	pCi/g		11/26/13 13:36	12/24/13 08:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*103*		*40 - 110*	*11/26/13 13:36*	*12/24/13 08:00*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.08**		1.00	0.309	pCi/g		11/26/13 14:00	12/20/13 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*103*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:26*	*1*
Y Carrier	*92.3*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:26*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.54**		1.00	0.0849	pCi/g		12/24/13 11:42	01/04/14 17:15	1
Thorium-230	**0.759**		1.00	0.0685	pCi/g		12/24/13 11:42	01/04/14 17:15	1
Thorium-232	**1.21**		1.00	0.0697	pCi/g		12/24/13 11:42	01/04/14 17:15	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*95.8*		*30 - 110*	*12/24/13 11:42*	*01/04/14 17:15*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.709**		1.00	0.0890	pCi/g		12/24/13 11:42	01/04/14 00:54	1
Uranium-235/236	0.0739	U	1.00	0.0773	pCi/g		12/24/13 11:42	01/04/14 00:54	1
Uranium-238	**0.747**		1.00	0.0937	pCi/g		12/24/13 11:42	01/04/14 00:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*84.6*		*30 - 110*	*12/24/13 11:42*	*01/04/14 00:54*	*1*

Client Sample ID: BY-SS-3_SS DUP
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-12
Matrix: Solid
Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Acenaphthylene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1

Client Sample ID: BY-SS-3_SS DUP
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-12
Matrix: Solid
Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Benzo[a]anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Benzo[b]fluoranthene	34	U *	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Benzo[k]fluoranthene	34	U *	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Benzo[g,h,i]perylene	34	U *	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Benzo[a]pyrene	34	U *	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Chrysene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Dibenz(a,h)anthracene	34	U *	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Fluorene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Indeno[1,2,3-cd]pyrene	34	U *	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Naphthalene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Phenanthrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1
Pyrene	34	U *	340	34	ug/Kg	☼	12/02/13 12:17	12/04/13 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*76*		*53 - 97*	*12/02/13 12:17*	*12/04/13 03:08*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*46 - 111*	*12/02/13 12:17*	*12/04/13 03:08*	*1*
Nitrobenzene-d5 (Surr)	*76*		*55 - 98*	*12/02/13 12:17*	*12/04/13 03:08*	*1*
Phenol-d5 (Surr)	*69*		*54 - 101*	*12/02/13 12:17*	*12/04/13 03:08*	*1*
Terphenyl-d14 (Surr)	*94*		*58 - 123*	*12/02/13 12:17*	*12/04/13 03:08*	*1*
2-Fluorobiphenyl (Surr)	*82*		*56 - 97*	*12/02/13 12:17*	*12/04/13 03:08*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**11**	**J B**	42	0.77	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-2	**7.9**	**J B**	42	0.76	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-3	**12**	**J B**	42	0.76	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-4	**15**	**J q**	42	15	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-5	5.9	U	42	5.9	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-6	**11**	**J q**	42	5.9	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-7	5.5	U	42	5.5	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-8	**19**	**J**	42	5.7	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-9	6.2	U	42	6.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-10	9.0	U	42	9.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-11	**38**	**J q**	42	6.1	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-12/13	**26**	**J**	83	6.1	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-14	5.1	U	42	5.1	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-15	**39**	**J q**	42	6.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-16	**2.9**	**J**	42	1.3	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-17	**2.2**	**J**	42	0.89	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-18/30	**7.1**	**J**	83	0.75	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-19	**1.9**	**J**	42	1.1	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-20/28	**37**	**J B**	83	1.3	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-21/33	**9.8**	**J B**	83	1.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-22	**14**	**J**	42	1.4	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-23	1.2	U	42	1.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-24	0.65	U	42	0.65	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-25	**1.6**	**J**	42	1.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-26/29	**5.8**	**J**	83	1.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: BY-SS-3_SS DUP
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-12
Matrix: Solid
Percent Solids: 96.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-27	0.66	U	42	0.66	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-31	**28**	**J B**	42	1.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-32	**2.1**	**J**	42	0.51	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-34	1.2	U	42	1.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-35	**12**	**J**	42	1.4	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-36	**2.3**	**J q**	42	1.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-37	**58**		42	1.6	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-38	1.3	U	42	1.3	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-39	**3.1**	**J**	42	1.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-40/71	**21**	**J**	83	0.78	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-41	1.0	U	42	1.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-42	**14**	**J**	42	0.87	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-43	0.90	U	42	0.90	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-44/47/65	**110**	**J B**	120	0.75	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-45	0.88	U	42	0.88	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-46	0.94	U	42	0.94	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-48	**4.0**	**J**	42	0.80	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-49/69	**51**	**J B**	83	0.65	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-50/53	**3.5**	**J**	83	0.74	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-51	0.74	U	42	0.74	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-52	**330**	**B**	42	0.82	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-54	**1.4**	**J q**	42	0.41	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-55	3.4	U	42	3.4	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-56	**78**		42	3.7	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-57	3.4	U	42	3.4	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-58	3.4	U	42	3.4	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-59/62/75	**3.6**	**J**	120	0.58	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-60	**50**		42	3.6	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-61/70/74/76	**390**	**B**	170	3.3	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-63	**6.8**	**J**	42	3.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-64	**59**	**B**	42	0.54	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-66	**220**		42	3.8	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-67	3.1	U	42	3.1	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-68	3.0	U	42	3.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-72	**3.8**	**J**	42	3.3	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-73	0.62	U	42	0.62	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-77	**270**	**G**	4.4	4.4	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-78	3.8	U	42	3.8	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-79	**35**	**J**	42	3.3	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-80	3.2	U	42	3.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-81	**5.5**	**G q**	4.4	4.4	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-82	**190**		42	32	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-83	**46**		42	35	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-84	**190**		42	29	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-85/116/117	**250**		120	22	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-86/87/97/108/119/125	**860**	**B**	250	22	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-88/91	**99**		83	25	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-89	28	U	42	28	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-90/101/113	**1200**	**B**	120	22	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1

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Lab Sample ID: 680-96439-12
Matrix: Solid
Percent Solids: 96.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-92	**210**		42	26	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-93/100	25	U	83	25	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-107/124	**77**	**J**	83	20	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-94	26	U	42	26	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-95	**580**	**B**	42	24	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-96	**1.4**	**J**	42	0.45	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-98/102	23	U	83	23	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-99	**650**		42	26	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-103	23	U	42	23	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-104	**1.2**	**J q**	42	0.45	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-105	**1200**	**G**	23	23	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-106	22	U	42	22	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-110/115	**2400**	**B**	83	20	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-109	**150**		42	19	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-111	18	U	42	18	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-112	17	U	42	17	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-114	**26**	**G**	22	22	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-118	**2100**	**G B**	21	21	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-120	19	U	42	19	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-121	18	U	42	18	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-122	**29**	**J**	42	23	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-123	22	U G	22	22	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-126	**81**	**G**	25	25	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-127	22	U	42	22	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-128/166	**560**		83	6.7	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-129/138/163	**2800**	**B**	120	7.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-130	**170**		42	8.9	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-131	**20**	**J**	42	8.4	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-132	**620**		42	8.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-133	**22**	**J**	42	7.9	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-134/143	**82**	**J**	83	8.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-135/151	**280**		83	7.1	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-136	**88**		42	5.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-137	**140**		42	7.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-139/140	**31**	**J**	83	6.7	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-141	**320**		42	7.5	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-142	7.8	U	42	7.8	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-144	**48**		42	7.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-145	5.0	U	42	5.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-146	**270**		42	7.5	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-147/149	**970**	**B**	83	6.9	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-148	6.9	U	42	6.9	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-150	4.7	U	42	4.7	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-152	4.8	U	42	4.8	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-153/168	**1600**	**B**	83	5.8	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-154	**11**	**J**	42	6.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-155	5.4	U	42	5.4	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-156/157	**480**		8.3	5.1	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-158	**310**		42	5.3	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1

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TestAmerica Job ID: 680-96439-1

Client Sample ID: BY-SS-3_SS DUP
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-12
Matrix: Solid
Percent Solids: 96.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-159	4.2	U	42	4.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-160	6.1	U	42	6.1	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-161	5.4	U	42	5.4	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-162	**13**	**J**	42	4.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-164	**170**		42	5.9	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-165	6.2	U	42	6.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-167	**170**		4.2	4.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-169	4.6	U G	4.6	4.6	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-170	**530**		42	1.9	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-171/173	**130**		83	1.8	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-172	**83**		42	1.8	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-174	**320**		42	1.8	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-175	**21**	**J**	42	0.72	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-176	**24**	**J**	42	0.48	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-177	**190**		42	1.8	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-178	**49**		42	0.75	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-179	**63**		42	0.53	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-180/193	**850**	**B**	83	1.5	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-181	**8.3**	**J**	42	1.5	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-182	**7.0**	**J q**	42	0.67	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-183	**150**		42	1.4	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-184	**10**	**J**	42	0.54	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-185	**14**	**J**	42	1.6	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-186	**0.78**	**J q**	42	0.51	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-187	**280**		42	0.70	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-188	**7.3**	**J**	42	0.53	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-189	**32**		4.2	0.90	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-190	**96**		42	1.4	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-191	**27**	**J**	42	1.3	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-192	1.4	U	42	1.4	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-194	**160**		42	1.3	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-195	**48**		42	1.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-196	**100**		42	0.94	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-197	**42**		42	0.63	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-198/199	**180**		83	0.98	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-200	**18**	**J**	42	0.64	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-201	**48**		42	0.63	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-202	**32**	**J**	42	0.76	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-203	**100**		42	0.87	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-204	**17**	**J q**	42	0.66	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-205	**23**	**J**	42	0.90	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-206	**220**		42	1.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-207	**240**		42	0.85	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-208	**170**		42	1.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
PCB-209	**2400**	**B**	42	0.61	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
Total Monochlorobiphenyls	**31**	**J B**	420	0.76	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
Total Dichlorobiphenyls	**150**	**J q**	420	7.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
Total Trichlorobiphenyls	**190**	**J q B**	420	1.1	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
Total Tetrachlorobiphenyls	**1600**	**q B**	420	2.1	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1

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Lab Sample ID: 680-96439-12
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Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Pentachlorobiphenyls	10000	q B	420	22	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
Total Hexachlorobiphenyls	9200	B	420	6.3	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
Total Heptachlorobiphenyls	2900	q B	420	1.2	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
Total Octachlorobiphenyls	770	q	420	0.86	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
Total Nonachlorobiphenyls	630		420	1.0	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1
Polychlorinated biphenyls, Total	28000	q B	420	4.3	pg/g	☼	12/19/13 17:37	02/09/14 06:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*50*		*5 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-15L	*65*		*5 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-123L	*72*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-114L	*72*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-202L	*72*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-3L	*56*		*5 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-118L	*74*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-126L	*80*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-206L	*75*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-169L	*91*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-37L	*65*		*5 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-19L	*57*		*5 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-188L	*64*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-54L	*56*		*5 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-156L/157L	*79*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-167L	*76*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-209L	*73*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-189L	*74*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-105L	*74*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-208L	*79*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-1L	*47*		*5 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-104L	*54*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-81L	*70*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-77L	*73*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-205L	*76*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-155L	*58*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*74*		*5 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-111L	*88*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*
PCB-178L	*93*		*10 - 145*	*12/19/13 17:37*	*02/09/14 06:17*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.2	J	2.1	0.051	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
1,2,3,7,8-PeCDD	3.9	J	10	0.15	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
1,2,3,7,8-PeCDF	45		10	0.23	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
2,3,4,7,8-PeCDF	27	B	10	0.24	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
1,2,3,4,7,8-HxCDD	3.5	J B	10	0.073	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
1,2,3,6,7,8-HxCDD	6.8	J B	10	0.052	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
1,2,3,7,8,9-HxCDD	7.5	J B	10	0.053	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
1,2,3,4,7,8-HxCDF	120	B	10	0.26	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
1,2,3,6,7,8-HxCDF	63	B	10	0.19	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1

Client Sample ID: BY-SS-3_SS DUP
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-12
Matrix: Solid
Percent Solids: 96.0

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-HxCDF	5.8	J B	10	0.25	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
2,3,4,6,7,8-HxCDF	23	B	10	0.23	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
1,2,3,4,6,7,8-HpCDD	32	B	10	0.19	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
1,2,3,4,6,7,8-HpCDF	260	B	10	0.42	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
1,2,3,4,7,8,9-HpCDF	81	B	10	0.49	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
OCDD	88	B	21	0.22	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1
OCDF	750	B	21	0.45	pg/g	☼	12/19/13 15:47	01/08/14 01:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*64*		*40 - 135*	*12/19/13 15:47*	*01/08/14 01:24*	*1*
13C-2,3,7,8-TCDD	*62*		*40 - 135*	*12/19/13 15:47*	*01/08/14 01:24*	*1*
13C-1,2,3,7,8-PeCDD	*59*		*40 - 135*	*12/19/13 15:47*	*01/08/14 01:24*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*67*		*40 - 135*	*12/19/13 15:47*	*01/08/14 01:24*	*1*
13C-1,2,3,7,8-PeCDF	*57*		*40 - 135*	*12/19/13 15:47*	*01/08/14 01:24*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*71*		*40 - 135*	*12/19/13 15:47*	*01/08/14 01:24*	*1*
13C-OCDD	*70*		*40 - 135*	*12/19/13 15:47*	*01/08/14 01:24*	*1*
13C-1,2,3,4,7,8-HxCDF	*61*		*40 - 135*	*12/19/13 15:47*	*01/08/14 01:24*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	32	B	2.1	0.15	pg/g	☼	12/19/13 15:47	01/14/14 05:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*66*		*40 - 135*	*12/19/13 15:47*	*01/14/14 05:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8600		510	350	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Antimony	16	U	25	16	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Barium	290		130	6.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Beryllium	4.3	U	13	4.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Cadmium	2.5	U	13	2.5	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Calcium	87000		6300	340	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Chromium	14	J	25	7.8	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Cobalt	24	U	130	24	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Copper	19	J	63	18	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Iron	13000		250	75	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Lead	15	J	25	4.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Magnesium	20000		2500	210	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Manganese	530		25	3.9	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Nickel	15	J	100	5.7	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Potassium	8500	U	13000	8500	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Selenium	7.3	U	38	7.3	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Silver	5.9	U	25	5.9	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Sodium	2900		2500	1200	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Titanium	720		51	16	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Vanadium	35	J	130	32	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25
Zinc	56	J	130	50	mg/Kg	☼	12/03/13 09:29	12/31/13 21:58	25

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4	J	5.1	1.3	mg/Kg	☼	12/03/13 09:05	12/25/13 11:43	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: BY-SS-3_SS DUP
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-12
Matrix: Solid
Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	2.2	J	13	1.9	mg/Kg	☼	12/03/13 09:05	12/25/13 11:43	10
Thallium	0.77	U	2.5	0.77	mg/Kg	☼	12/03/13 09:05	12/25/13 11:43	10
Uranium	0.76		0.51	0.10	mg/Kg	☼	12/03/13 09:05	12/25/13 11:43	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.031	0.010	mg/Kg	☼	11/26/13 06:54	11/27/13 15:03	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	21		4.2	0.83	mg/Kg	☼		12/10/13 04:00	20
Sulfate	440		100	10	mg/Kg	☼		12/10/13 04:00	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4500		420	42	mg/Kg	☼		12/10/13 19:15	200

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	27.1		10.0	6.08	pCi/g		12/23/13 11:18	12/23/13 18:51	1
Gross Beta	28.3		10.0	3.09	pCi/g		12/23/13 11:18	12/23/13 18:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.78			0.214	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Bismuth-212	1.79			0.836	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Bismuth-214	0.961			0.163	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Bismuth-210M	0.0126	U		0.122	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Cesium-134	0.0267	U		0.122	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Cesium-137	-0.0103	U		0.0785	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Cobalt-57	-0.00142	U		0.0651	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Cobalt-60	-0.00825	U		0.106	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Lead-212	1.71			0.133	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Lead-214	1.14			0.185	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Potassium-40	25.3			0.613	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Protactinium-231	0.744	U		2.52	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Protactinium-234	-0.00861	U		0.316	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Radium-224	2.13			1.93	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Thallium-208	0.726			0.0730	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Thorium-227	0.648			0.230	pCi/g		11/26/13 14:40	12/18/13 21:36	1
Thorium-234	1.24	U		2.29	pCi/g		11/26/13 14:40	12/18/13 21:36	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	1.03		1.00	0.0847	pCi/g		11/26/13 13:36	12/24/13 07:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*40 - 110*	*11/26/13 13:36*	*12/24/13 07:54*	*1*

Client Sample ID: BY-SS-3_SS DUP

Lab Sample ID: 680-96439-12

Date Collected: 11/20/13 10:10

Matrix: Solid

Date Received: 11/22/13 09:45

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.11		1.00	0.379	pCi/g		11/26/13 14:00	12/20/13 12:27	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	107		40 - 110	11/26/13 14:00	12/20/13 12:27	1
Y Carrier	86.0		40 - 110	11/26/13 14:00	12/20/13 12:27	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.96		1.00	0.121	pCi/g		12/24/13 11:42	01/04/14 17:15	1
Thorium-230	0.874		1.00	0.0652	pCi/g		12/24/13 11:42	01/04/14 17:15	1
Thorium-232	1.68		1.00	0.0757	pCi/g		12/24/13 11:42	01/04/14 17:15	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	79.9		30 - 110	12/24/13 11:42	01/04/14 17:15	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	0.893		1.00	0.0796	pCi/g		12/24/13 11:42	01/04/14 00:54	1
Uranium-235/236	0.0366	U	1.00	0.0724	pCi/g		12/24/13 11:42	01/04/14 00:54	1
Uranium-238	0.961		1.00	0.0911	pCi/g		12/24/13 11:42	01/04/14 00:54	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	81.4		30 - 110	12/24/13 11:42	01/04/14 00:54	1

Client Sample ID: J2-SS-3_SS

Lab Sample ID: 680-96439-13

Date Collected: 11/21/13 08:00

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 98.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	20	J B	40	0.62	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-2	87		40	0.58	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-3	53	B	40	0.55	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-4	13	J	40	4.0	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-5	3.1	U	40	3.1	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-6	40		40	3.2	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-7	13	J	40	2.9	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-8	45		40	3.1	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-9	5.3	J	40	3.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-10	2.1	U	40	2.1	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-11	130	B	40	3.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-12/13	340		81	3.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-14	120		40	2.7	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-15	130		40	3.0	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-16	30	J	40	0.91	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-17	20	J	40	0.64	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-18/30	42	J	81	0.55	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-19	4.4	J	40	0.86	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-20/28	210	B	81	7.4	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-21/33	83	B	81	6.9	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-22	82		40	7.9	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: J2-SS-3_SS
Date Collected: 11/21/13 08:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-13
Matrix: Solid
Percent Solids: 98.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-23	6.7	U	40	6.7	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-24	**0.99**	**J**	40	0.47	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-25	**140**		40	6.9	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-26/29	**26**	**J**	81	7.0	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-27	0.48	U	40	0.48	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-31	**160**	**B**	40	6.9	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-32	**17**	**J**	40	0.37	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-34	**95**		40	7.0	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-35	**35**	**J**	40	8.1	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-36	**110**		40	7.1	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-37	**200**		40	8.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-38	7.6	U	40	7.6	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-39	**1100**		40	7.1	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-40/71	**140**		81	0.50	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-41	**20**	**J**	40	0.66	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-42	**64**		40	0.56	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-43	**3.8**	**J**	40	0.58	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-44/47/65	**330**	**B**	120	0.48	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-45	**19**	**J**	40	0.57	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-46	**8.5**	**J**	40	0.60	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-48	**37**	**J**	40	0.52	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-49/69	**160**	**B**	81	0.42	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-50/53	**21**	**J**	81	0.47	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-51	**5.8**	**J**	40	0.47	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-52	**580**	**B**	40	0.53	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-54	**0.90**	**J**	40	0.18	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-55	7.9	U	40	7.9	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-56	**210**		40	8.6	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-57	7.8	U	40	7.8	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-58	7.8	U	40	7.8	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-59/62/75	**22**	**J**	120	0.37	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-60	**120**		40	8.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-61/70/74/76	**860**	**B**	160	7.7	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-63	**14**	**J**	40	7.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-64	**160**		40	0.35	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-66	**450**	**B**	40	8.7	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-67	**8.0**	**J**	40	7.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-68	**1200**		40	7.0	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-72	**26**	**J**	40	7.5	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-73	**110**		40	0.40	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-77	**210**	**G**	9.4	9.4	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-78	8.8	U	40	8.8	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-79	**47**		40	7.7	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-80	**72**		40	7.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-81	9.3	U G	9.3	9.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-82	**280**		40	35	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-83	**70**		40	38	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-84	**350**		40	32	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-85/116/117	**340**		120	24	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: J2-SS-3_SS
Date Collected: 11/21/13 08:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-13
Matrix: Solid
Percent Solids: 98.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-86/87/97/108/119/125	1300		240	24	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-88/91	150		81	27	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-89	30	U	40	30	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-90/101/113	1600	B	120	24	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-92	280		40	29	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-93/100	27	U	81	27	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-107/124	87		81	22	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-94	29	U	40	29	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-95	990	B	40	27	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-96	5.4	J	40	0.20	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-98/102	25	U	81	25	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-99	820		40	28	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-103	25	U	40	25	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-104	0.68	J	40	0.21	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-105	1200	G	25	25	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-106	24	U	40	24	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-110/115	3200	B	81	22	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-109	160		40	21	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-111	20	U	40	20	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-112	19	U	40	19	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-114	41	G	24	24	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-118	2100	B G	23	23	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-120	21	U	40	21	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-121	240		40	20	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-122	26	J	40	25	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-123	30	G	23	23	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-126	87	G	28	28	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-127	24	U	40	24	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-128/166	760		81	11	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-129/138/163	4200	B	120	12	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-130	260		40	15	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-131	30	J	40	14	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-132	990	B	40	13	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-133	35	J	40	13	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-134/143	120		81	13	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-135/151	580		81	12	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-136	190		40	8.5	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-137	180		40	12	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-139/140	46	J	81	11	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-141	600		40	12	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-142	13	U	40	13	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-144	96		40	12	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-145	8.2	U	40	8.2	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-146	440		40	12	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-147/149	1700	B	81	11	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-148	11	U	40	11	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-150	7.7	U	40	7.7	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-152	7.9	U	40	7.9	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-153/168	2600	B	81	9.6	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: J2-SS-3_SS
Date Collected: 11/21/13 08:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-13
Matrix: Solid
Percent Solids: 98.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-154	21	J q	40	10	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-155	8.8	U	40	8.8	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-156/157	600		8.1	6.7	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-158	480		40	8.8	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-159	9.1	J	40	5.6	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-160	10	U	40	10	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-161	8.8	U	40	8.8	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-162	38	J	40	5.4	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-164	290		40	9.8	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-165	10	U	40	10	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-167	230	G	5.2	5.2	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-169	9.2	G	6.4	6.4	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-170	1300		40	3.5	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-171/173	340		81	3.2	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-172	230		40	3.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-174	1000		40	3.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-175	54		40	0.59	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-176	81		40	0.40	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-177	590		40	3.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-178	150		40	0.62	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-179	230		40	0.43	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-180/193	2700	B	81	2.6	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-181	16	J	40	2.7	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-182	21	J	40	0.55	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-183	510		40	2.4	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-184	30	J	40	0.44	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-185	93		40	2.9	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-186	2.7	J	40	0.42	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-187	960		40	0.57	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-188	19	J	40	0.43	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-189	60		4.0	0.88	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-190	280		40	2.4	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-191	72		40	2.4	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-192	7.8	J	40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-194	570		40	2.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-195	170		40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-196	340		40	2.0	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-197	160		40	1.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-198/199	690		81	2.1	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-200	69		40	1.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-201	170		40	1.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-202	120		40	1.5	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-203	410		40	1.8	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-204	44		40	1.4	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-205	60		40	1.8	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-206	870		40	3.8	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-207	1400		40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
PCB-208	890		40	2.8	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
Total Monochlorobiphenyls	160	J B	400	0.58	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1

Client Sample ID: J2-SS-3_SS
Date Collected: 11/21/13 08:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-13
Matrix: Solid
Percent Solids: 98.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	840	B	400	3.1	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
Total Trichlorobiphenyls	2400	B	400	4.9	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
Total Tetrachlorobiphenyls	4900	B	400	4.3	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
Total Pentachlorobiphenyls	13000	B	400	24	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
Total Hexachlorobiphenyls	15000	B q	400	10	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
Total Heptachlorobiphenyls	8800	B	400	1.8	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
Total Octachlorobiphenyls	2800		400	1.7	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
Total Nonachlorobiphenyls	3200		400	3.1	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1
Polychlorinated biphenyls, Total	130000	B q	400	6.8	pg/g	☼	12/21/13 12:08	01/05/14 12:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*49*		*5 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-15L	*69*		*5 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-123L	*91*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-114L	*89*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-202L	*92*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-3L	*49*		*5 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-118L	*91*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-126L	*93*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-206L	*79*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-169L	*88*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-37L	*81*		*5 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-19L	*62*		*5 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-188L	*82*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-54L	*66*		*5 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-156L/157L	*88*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-167L	*83*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-189L	*85*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-105L	*91*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-208L	*93*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-1L	*39*		*5 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-104L	*71*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-81L	*92*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-77L	*92*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-205L	*88*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-155L	*67*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*68*		*5 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-111L	*88*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*
PCB-178L	*78*		*10 - 145*	*12/21/13 12:08*	*01/05/14 12:36*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-209	77000	B	1000	37	pg/g	☼	12/21/13 12:08	01/12/14 13:13	25

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-209L	*70*		*10 - 145*	*12/21/13 12:08*	*01/12/14 13:13*	*25*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-178L	*89*		*10 - 145*	*12/21/13 12:08*	*01/12/14 13:13*	*25*

Client Sample ID: J2-SS-3_SS

Lab Sample ID: 680-96439-13

Date Collected: 11/21/13 08:00

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 98.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6900**		89	62	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Antimony	2.9	U	4.5	2.9	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Barium	**140**		22	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Beryllium	0.75	U	2.2	0.75	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Cadmium	0.45	U	2.2	0.45	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Calcium	**38000**		1100	59	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Chromium	**18**		4.5	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Cobalt	**10**	**J**	22	4.2	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Copper	**42**		11	3.2	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Iron	**12000**		45	13	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Lead	**19**		4.5	0.77	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Magnesium	**12000**		450	37	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Manganese	**790**		4.5	0.69	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Nickel	**19**		18	1.0	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Potassium	**1500**	**J**	2200	1500	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Selenium	1.3	U	6.7	1.3	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Silver	1.0	U	4.5	1.0	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Sodium	**820**		450	210	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Titanium	**1200**		8.9	2.8	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Vanadium	**42**		22	5.6	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5
Zinc	**43**		22	8.8	mg/Kg	☼	12/03/13 09:29	12/31/13 22:02	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.4**	**J**	4.5	1.2	mg/Kg	☼	12/03/13 09:05	12/25/13 11:50	10
Niobium	**8.9**	**J**	11	1.7	mg/Kg	☼	12/03/13 09:05	12/25/13 11:50	10
Thallium	0.68	U	2.2	0.68	mg/Kg	☼	12/03/13 09:05	12/25/13 11:50	10
Uranium	**1.2**		0.45	0.089	mg/Kg	☼	12/03/13 09:05	12/25/13 11:50	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.032	0.011	mg/Kg	☼	11/26/13 06:54	11/27/13 15:05	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**20**		4.0	0.80	mg/Kg	☼		12/10/13 04:28	20
Sulfate	**1700**		100	10	mg/Kg	☼		12/10/13 04:28	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2700**		400	40	mg/Kg	☼		12/10/13 19:30	200

Client Sample ID: J2-SS-2_SS

Lab Sample ID: 680-96439-14

Date Collected: 11/21/13 08:25

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Acenaphthylene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Anthracene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1

Client Sample ID: J2-SS-2_SS
Date Collected: 11/21/13 08:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-14
Matrix: Solid
Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Benzo[b]fluoranthene	**39**	**J**	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Benzo[k]fluoranthene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Benzo[g,h,i]perylene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Benzo[a]pyrene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Chrysene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Dibenz(a,h)anthracene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Fluoranthene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Fluorene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Indeno[1,2,3-cd]pyrene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Naphthalene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Phenanthrene	35	U	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1
Pyrene	35	U *	350	35	ug/Kg	☼	12/02/13 12:17	12/04/13 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*78*		*53 - 97*	*12/02/13 12:17*	*12/04/13 03:42*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*46 - 111*	*12/02/13 12:17*	*12/04/13 03:42*	*1*
Nitrobenzene-d5 (Surr)	*76*		*55 - 98*	*12/02/13 12:17*	*12/04/13 03:42*	*1*
Phenol-d5 (Surr)	*72*		*54 - 101*	*12/02/13 12:17*	*12/04/13 03:42*	*1*
Terphenyl-d14 (Surr)	*82*		*58 - 123*	*12/02/13 12:17*	*12/04/13 03:42*	*1*
2-Fluorobiphenyl (Surr)	*78*		*56 - 97*	*12/02/13 12:17*	*12/04/13 03:42*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**20**	**J q B**	420	3.8	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-2	**55**	**J B**	420	3.6	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-3	**100**	**J B**	420	3.5	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-4	91	U	420	91	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-5	130	U	420	130	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-6	130	U	420	130	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-7	120	U	420	120	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-8	130	U	420	130	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-9	140	U	420	140	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-10	52	U	420	52	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-11	**460**		420	140	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-12/13	140	U	840	140	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-14	110	U	420	110	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-15	**310**	**J**	420	130	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-16	**64**	**J**	420	23	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-17	**51**	**J**	420	16	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-18/30	**170**	**J**	840	14	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-19	20	U	420	20	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-20/28	**620**	**J B**	840	18	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-21/33	**190**	**J B**	840	17	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-22	**290**	**J**	420	19	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-23	16	U	420	16	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-24	12	U	420	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-25	**25**	**J**	420	17	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-26/29	**56**	**J**	840	17	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-27	12	U	420	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: J2-SS-2_SS
Date Collected: 11/21/13 08:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-14
Matrix: Solid
Percent Solids: 94.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-31	550	B	420	17	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-32	52	J	420	9.3	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-34	17	U	420	17	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-35	39	J	420	20	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-36	17	U	420	17	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-37	520		420	21	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-38	18	U	420	18	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-39	17	U	420	17	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-40/71	440	J	840	8.4	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-41	62	J	420	11	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-42	280	J	420	9.3	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-43	36	J	420	9.6	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-44/47/65	1200	J B	1300	8.0	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-45	100	J	420	9.4	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-46	39	J	420	10	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-48	160	J	420	8.6	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-49/69	660	J B	840	7.0	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-50/53	87	J	840	7.9	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-51	17	J	420	7.9	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-52	2100	B	420	8.8	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-54	7.2	U	420	7.2	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-55	13	U	420	13	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-56	450		420	14	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-57	12	U	420	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-58	13	U	420	13	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-59/62/75	50	J	1300	6.2	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-60	220	J	420	13	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-61/70/74/76	1400	J B	1700	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-63	18	J q	420	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-64	300	J B	420	5.8	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-66	930		420	14	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-67	15	J	420	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-68	11	U	420	11	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-72	12	U	420	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-73	6.6	U	420	6.6	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-77	150		42	17	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-78	14	U	420	14	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-79	31	J	420	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-80	12	U	420	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-81	17	U	42	17	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-82	240	J	420	35	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-83	68	J q	420	38	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-84	550		420	31	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-85/116/117	290	J	1300	23	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-86/87/97/108/119/125	1300	J B	2500	24	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-88/91	310	J	840	26	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-89	30	U	420	30	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-90/101/113	2000	B	1300	24	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-92	340	J	420	28	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10

Client Sample ID: J2-SS-2_SS
Date Collected: 11/21/13 08:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-14
Matrix: Solid
Percent Solids: 94.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-93/100	27	U	840	27	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-107/124	**61**	**J**	840	22	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-94	28	U	420	28	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-95	**1800**	**B**	420	26	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-96	**12**	**J**	420	3.2	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-98/102	**40**	**J q**	840	25	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-99	**950**		420	28	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-103	24	U	420	24	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-104	2.9	U	420	2.9	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-105	**750**		42	26	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-106	24	U	420	24	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-110/115	**2200**	**B**	840	21	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-109	**79**	**J**	420	20	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-111	19	U	420	19	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-112	19	U	420	19	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-114	24	U	42	24	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-115	**2200**	**B**	840	21	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-118	**1300**	**B**	42	24	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-120	21	U	420	21	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-121	19	U	420	19	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-122	24	U	420	24	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-123	23	U	42	23	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-126	32	U	42	32	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-127	24	U	420	24	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-128/166	**280**	**J**	840	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-129/138/163	**1800**	**B**	1300	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-130	**110**	**J**	420	15	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-131	**20**	**J**	420	15	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-132	**540**		420	14	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-133	**16**	**J**	420	14	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-134/143	**80**	**J**	840	14	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-135/151	**410**	**J**	840	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-136	**170**	**J**	420	9.0	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-137	**70**	**J**	420	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-139/140	**27**	**J**	840	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-141	**320**	**J**	420	13	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-142	14	U	420	14	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-144	**67**	**J**	420	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-145	8.7	U	420	8.7	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-146	**210**	**J**	420	13	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-147/149	**1100**	**B**	840	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-148	12	U	420	12	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-150	8.1	U	420	8.1	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-152	8.3	U	420	8.3	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-153/168	**1300**	**B**	840	10	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-154	11	U	420	11	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-155	7.9	U	420	7.9	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-156/157	**260**		84	11	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-158	**190**	**J**	420	9.3	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: J2-SS-2_SS
Date Collected: 11/21/13 08:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-14
Matrix: Solid
Percent Solids: 94.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-159	8.6	U	420	8.6	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-160	11	U	420	11	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-161	9.3	U	420	9.3	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-162	8.3	U	420	8.3	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-164	**140**	**J**	420	10	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-165	11	U	420	11	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-167	**91**		42	8.5	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-169	10	U	42	10	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-170	**490**		420	7.5	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-171/173	**130**	**J**	840	6.9	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-172	**74**	**J**	420	7.1	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-174	**500**		420	7.1	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-175	**14**	**J q**	420	7.0	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-176	**41**	**J**	420	4.7	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-177	**250**	**J**	420	7.1	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-178	**67**	**J q**	420	7.3	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-179	**130**	**J**	420	5.1	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-180/193	**1200**	**B**	840	5.7	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-181	5.8	U	420	5.8	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-182	6.5	U	420	6.5	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-183	**230**	**J**	420	5.2	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-184	5.2	U	420	5.2	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-185	**32**	**J q**	420	6.3	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-186	5.0	U	420	5.0	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-187	**480**		420	6.8	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-188	5.1	U	420	5.1	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-189	**22**	**J**	42	11	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-190	**97**	**J**	420	5.3	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-191	**17**	**J q**	420	5.1	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-192	5.3	U	420	5.3	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-194	**320**	**J**	420	9.2	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-195	**88**	**J**	420	8.6	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-196	**160**	**J**	420	7.5	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-197	**43**	**J**	420	5.0	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-198/199	**310**	**J**	840	7.8	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-200	**28**	**J q**	420	5.1	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-201	**60**	**J**	420	5.0	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-202	**48**	**J**	420	5.8	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-203	**200**	**J**	420	6.9	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-204	**8.5**	**J**	420	5.2	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-205	**20**	**J**	420	6.7	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-206	**370**	**J**	420	9.1	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-207	**470**		420	6.8	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-208	**330**	**J**	420	8.2	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
PCB-209	**20000**	**B**	420	6.7	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
Total Monochlorobiphenyls	**180**	**J q B**	4200	3.6	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
Total Dichlorobiphenyls	**780**	**J**	4200	120	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
Total Trichlorobiphenyls	**2600**	**J B**	4200	17	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
Total Tetrachlorobiphenyls	**8800**	**q B**	4200	11	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10

Client Sample ID: J2-SS-2_SS
Date Collected: 11/21/13 08:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-14
Matrix: Solid
Percent Solids: 94.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Pentachlorobiphenyls	12000	q B	4200	24	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
Total Hexachlorobiphenyls	7300	B	4200	11	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
Total Heptachlorobiphenyls	3800	J q B	4200	6.3	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
Total Octachlorobiphenyls	1300	J q	4200	6.6	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
Total Nonachlorobiphenyls	1200	J	4200	8.0	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10
Polychlorinated biphenyls, Total	58000	q B	4200	21	pg/g	☼	12/19/13 17:37	02/07/14 20:52	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*49*		*5 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-15L	*72*		*5 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-123L	*77*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-114L	*76*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-202L	*84*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-3L	*57*		*5 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-118L	*74*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-126L	*77*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-206L	*87*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-169L	*84*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-37L	*71*		*5 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-19L	*55*		*5 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-188L	*78*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-54L	*76*		*5 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-156L/157L	*80*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-167L	*83*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-209L	*100*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-189L	*79*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-105L	*74*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-208L	*88*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-1L	*41*		*5 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-104L	*65*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-81L	*72*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-77L	*75*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-205L	*84*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-155L	*73*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*83*		*5 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-111L	*82*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*
PCB-178L	*95*		*10 - 145*	*12/19/13 17:37*	*02/07/14 20:52*	*10*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.54	J	2.1	0.035	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
1,2,3,7,8-PeCDD	1.1	J	10	0.070	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
1,2,3,7,8-PeCDF	15		10	0.088	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
2,3,4,7,8-PeCDF	9.6	J B	10	0.092	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
1,2,3,4,7,8-HxCDD	0.75	J B q	10	0.050	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
1,2,3,6,7,8-HxCDD	2.7	J B	10	0.035	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
1,2,3,7,8,9-HxCDD	3.3	J B	10	0.037	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
1,2,3,4,7,8-HxCDF	39	B	10	0.096	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
1,2,3,6,7,8-HxCDF	18	B	10	0.072	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1

Client Sample ID: J2-SS-2_SS
Date Collected: 11/21/13 08:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-14
Matrix: Solid
Percent Solids: 94.1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-HxCDF	1.8	J B	10	0.093	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
2,3,4,6,7,8-HxCDF	6.7	J B	10	0.084	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
1,2,3,4,6,7,8-HpCDD	14	B	10	0.12	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
1,2,3,4,6,7,8-HpCDF	110	B	10	0.22	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
1,2,3,4,7,8,9-HpCDF	31	B	10	0.26	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
OCDD	95	B	21	0.18	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1
OCDF	1400	B	21	0.50	pg/g	☼	12/19/13 15:47	01/08/14 02:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*91*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:06*	*1*
13C-2,3,7,8-TCDD	*92*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:06*	*1*
13C-1,2,3,7,8-PeCDD	*90*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:06*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*94*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:06*	*1*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:06*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*97*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:06*	*1*
13C-OCDD	*96*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:06*	*1*
13C-1,2,3,4,7,8-HxCDF	*91*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:06*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	27	B	2.1	0.10	pg/g	☼	12/19/13 15:47	01/14/14 05:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*97*		*40 - 135*	*12/19/13 15:47*	*01/14/14 05:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6800		92	64	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Antimony	3.0	U	4.6	3.0	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Barium	140		23	1.2	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Beryllium	0.78	U	2.3	0.78	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Cadmium	0.46	U	2.3	0.46	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Calcium	22000		1200	61	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Chromium	19		4.6	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Cobalt	12	J	23	4.3	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Copper	31		12	3.3	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Iron	10000		46	14	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Lead	12		4.6	0.79	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Magnesium	6100		460	38	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Manganese	1000		4.6	0.71	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Nickel	18		18	1.0	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Potassium	1600	U	2300	1600	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Selenium	1.3	U	6.9	1.3	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Silver	1.1	U	4.6	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Sodium	6700		460	220	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Titanium	840		9.2	2.9	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Vanadium	46		23	5.8	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5
Zinc	44		23	9.1	mg/Kg	☼	12/03/13 09:29	12/31/13 22:06	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9	J	4.6	1.2	mg/Kg	☼	12/03/13 09:05	12/25/13 12:10	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: J2-SS-2_SS
Date Collected: 11/21/13 08:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-14
Matrix: Solid
Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	7.5	J B	12	1.7	mg/Kg	☼	12/03/13 09:05	12/26/13 18:21	10
Thallium	0.70	U	2.3	0.70	mg/Kg	☼	12/03/13 09:05	12/25/13 12:10	10
Uranium	1.3		0.46	0.092	mg/Kg	☼	12/03/13 09:05	12/25/13 12:10	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.032	0.011	mg/Kg	☼	11/26/13 06:54	11/27/13 15:06	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.2		0.21	0.043	mg/Kg	☼		12/10/13 04:43	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2100		110	11	mg/Kg	☼		12/10/13 04:57	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6600		1100	110	mg/Kg	☼		12/10/13 19:44	500

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	39.2		10.0	4.78	pCi/g		12/23/13 11:18	12/23/13 18:49	1
Gross Beta	36.4		10.0	2.87	pCi/g		12/23/13 11:18	12/23/13 18:49	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.46			0.444	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Bismuth-212	1.57	U		2.17	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Bismuth-214	3.62			0.223	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Bismuth-210M	0.0433	U		0.250	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Cesium-134	0.0751	U		0.0888	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Cesium-137	0.00216	U		0.196	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Cobalt-57	0.0119	U		0.102	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Cobalt-60	0.00763	U		0.229	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Lead-212	2.23			0.208	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Lead-214	3.33			0.344	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Potassium-40	26.1			1.43	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Protactinium-231	1.16	U		4.32	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Protactinium-234	0.0608	U		0.659	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Radium-224	2.85	U		3.75	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Thallium-208	0.852			0.112	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Thorium-227	-1.33	U		1.91	pCi/g		11/26/13 14:42	12/18/13 21:37	1
Thorium-234	4.15			3.81	pCi/g		11/26/13 14:42	12/18/13 21:37	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	3.31		1.00	0.0968	pCi/g		11/26/13 13:36	12/24/13 07:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*116*	*X*	*40 - 110*	*11/26/13 13:36*	*12/24/13 07:54*	*1*

Client Sample ID: J2-SS-2_SS

Lab Sample ID: 680-96439-14

Date Collected: 11/21/13 08:25

Matrix: Solid

Date Received: 11/22/13 09:45

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.23		1.00	0.432	pCi/g		11/26/13 14:00	12/20/13 12:27	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	116	X	40 - 110	11/26/13 14:00	12/20/13 12:27	1
Y Carrier	87.9		40 - 110	11/26/13 14:00	12/20/13 12:27	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.89		1.00	0.0352	pCi/g		12/24/13 11:42	01/04/14 17:15	1
Thorium-230	1.46		1.00	0.0798	pCi/g		12/24/13 11:42	01/04/14 17:15	1
Thorium-232	1.79		1.00	0.0796	pCi/g		12/24/13 11:42	01/04/14 17:15	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	80.1		30 - 110	12/24/13 11:42	01/04/14 17:15	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	1.22		1.00	0.0794	pCi/g		12/24/13 11:42	01/04/14 00:54	1
Uranium-235/236	0.0564	U	1.00	0.0899	pCi/g		12/24/13 11:42	01/04/14 00:54	1
Uranium-238	1.13		1.00	0.0824	pCi/g		12/24/13 11:42	01/04/14 00:54	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	84.2		30 - 110	12/24/13 11:42	01/04/14 00:54	1

Client Sample ID: J2-SS-1_SS

Lab Sample ID: 680-96439-15

Date Collected: 11/21/13 08:55

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 97.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	190	B	41	1.2	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-2	270		41	1.1	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-3	520	B	41	1.1	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-4	380		41	4.2	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-5	15	U	41	15	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-6	320		41	15	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-7	33	J	41	14	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-8	1900		41	14	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-9	76		41	15	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-10	23	J	41	2.5	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-11	2800	B	41	15	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-12/13	470		82	15	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-14	13	U	41	13	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-15	4500	E	41	15	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-16	1700		41	3.3	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-17	1200		41	2.3	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-18/30	1700		82	2.0	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-19	360		41	3.0	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-20/28	7300	B	82	62	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-21/33	3000	B	82	57	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-22	3000	G	66	66	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: J2-SS-1_SS
Date Collected: 11/21/13 08:55
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-15
Matrix: Solid
Percent Solids: 97.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-23	56	U G	56	56	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-24	**34**	**J**	41	1.7	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-25	**230**	**G**	58	58	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-26/29	**540**		82	58	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-27	**250**		41	1.7	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-31	**4600**	**E B G**	57	57	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-32	**810**		41	1.4	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-34	58	U G	58	58	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-35	**1600**	**G**	67	67	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-36	59	U G	59	59	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-37	**4100**	**G**	72	72	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-38	64	U G	64	64	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-39	60	U G	60	60	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-40/71	**2700**		82	4.5	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-41	**680**		41	5.9	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-42	**1600**		41	5.1	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-43	**180**		41	5.2	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-44/47/65	**6200**	**B**	120	4.3	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-45	**670**		41	5.1	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-46	**250**		41	5.4	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-48	**1200**		41	4.6	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-49/69	**3100**	**B**	82	3.8	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-50/53	**530**		82	4.3	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-51	**140**		41	4.3	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-52	**7900**	**E B**	41	4.7	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-54	**10**	**J**	41	0.49	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-55	48	U G	48	48	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-56	**2000**	**G**	52	52	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-57	47	U G	47	47	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-58	48	U G	48	48	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-59/62/75	**390**		120	3.3	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-60	**1100**	**G**	50	50	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-61/70/74/76	**8300**	**B**	160	47	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-63	**110**	**G**	44	44	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-64	**2700**		41	3.2	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-66	**5200**	**E B G**	53	53	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-67	**86**	**G**	44	44	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-68	42	U G	42	42	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-72	46	U G	46	46	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-73	3.6	U	41	3.6	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-77	**2200**	**G**	57	57	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-78	54	U G	54	54	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-79	**360**	**G**	46	46	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-80	44	U G	44	44	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-81	57	U G	57	57	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-82	**2200**	**G**	240	240	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-83	**570**	**q G**	260	260	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-84	**2900**	**G**	220	220	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-85/116/117	**3000**	**G**	160	160	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: J2-SS-1_SS
Date Collected: 11/21/13 08:55
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-15
Matrix: Solid
Percent Solids: 97.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-86/87/97/108/119/125	11000		250	170	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-88/91	1400	G	190	190	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-89	210	U G	210	210	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-90/101/113	15000	E B G	170	170	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-92	2300	G	200	200	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-93/100	190	U G	190	190	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-107/124	760	G	150	150	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-94	200	U G	200	200	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-95	8100	E B G	180	180	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-96	52		41	0.49	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-98/102	170	U G	170	170	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-99	8100	E G	200	200	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-103	170	U G	170	170	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-104	5.9	J	41	0.54	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-105	11000	E G	170	170	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-106	170	U G	170	170	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-110/115	24000	E B G	150	150	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-109	1200	G	140	140	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-111	140	U G	140	140	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-112	130	U G	130	130	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-114	220	G	160	160	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-118	18000	E B G	150	150	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-120	140	U G	140	140	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-121	140	U G	140	140	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-122	230	G	170	170	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-123	260	G	160	160	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-126	480	G	190	190	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-127	170	U G	170	170	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-128/166	5000		82	70	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-129/138/163	30000	E B	120	73	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-130	1600	G	93	93	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-131	210	G	88	88	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-132	6700	E B G	83	83	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-133	210	G	83	83	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-134/143	810	G	84	84	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-135/151	4600		82	74	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-136	1400	G	54	54	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-137	1300	G	73	73	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-139/140	310		82	70	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-141	4900	E G	78	78	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-142	81	U G	81	81	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-144	740	G	73	73	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-145	52	U G	52	52	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-146	2900	G	78	78	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-147/149	13000	E B	82	72	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-148	72	U G	72	72	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-150	49	U G	49	49	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-152	50	U G	50	50	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-153/168	22000	E B	82	61	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: J2-SS-1_SS
Date Collected: 11/21/13 08:55
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-15
Matrix: Solid
Percent Solids: 97.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-154	140	G	64	64	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-155	57	U G	57	57	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-156/157	4300	G	53	53	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-158	3200	G	56	56	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-159	44	U G	44	44	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-160	64	U G	64	64	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-161	56	U G	56	56	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-162	230	G	42	42	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-164	1900	G	62	62	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-165	64	U G	64	64	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-167	1500	G	41	41	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-169	49	U G	49	49	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-170	11000	E	41	34	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-171/173	2600		82	31	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-172	1800		41	32	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-174	9700	E	41	32	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-175	340		41	4.8	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-176	700		41	3.2	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-177	4900	E	41	32	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-178	1300		41	5.0	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-179	2100		41	3.5	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-180/193	29000	E B	82	26	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-181	82		41	26	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-182	87		41	4.5	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-183	4900	E	41	24	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-184	140		41	3.6	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-185	1000		41	29	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-186	15	J	41	3.4	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-187	9100	E	41	4.6	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-188	78		41	3.5	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-189	440	G	5.6	5.6	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-190	2400		41	24	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-191	560		41	23	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-192	24	U	41	24	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-194	8000	E	41	16	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-195	1900		41	15	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-196	3400		41	22	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-197	740		41	15	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-198/199	6200		82	23	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-200	700		41	15	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-201	1000		41	15	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-202	920		41	17	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-203	4700	E	41	21	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-204	180		41	16	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-205	540		41	12	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-206	13000	E	41	19	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-207	8000	E	41	14	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
PCB-208	5800	E	41	16	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
Total Monochlorobiphenyls	980	B	410	1.1	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1

Client Sample ID: J2-SS-1_SS
Date Collected: 11/21/13 08:55
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-15
Matrix: Solid
Percent Solids: 97.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	11000	B	410	12	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
Total Trichlorobiphenyls	30000	B	410	40	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
Total Tetrachlorobiphenyls	48000	B	410	26	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
Total Pentachlorobiphenyls	110000	B q	410	160	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
Total Hexachlorobiphenyls	110000	B	410	66	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
Total Heptachlorobiphenyls	82000	B	410	17	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
Total Octachlorobiphenyls	28000		410	17	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
Total Nonachlorobiphenyls	26000		410	16	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1
Polychlorinated biphenyls, Total	750000	B q	410	44	pg/g	☼	12/21/13 12:08	01/05/14 13:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*36*		*5 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-15L	*46*		*5 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-123L	*57*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-114L	*57*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-202L	*52*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-3L	*37*		*5 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-118L	*59*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-126L	*61*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-206L	*50*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-169L	*58*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-37L	*49*		*5 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-19L	*43*		*5 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-188L	*46*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-54L	*42*		*5 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-156L/157L	*55*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-167L	*54*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-209L	*38*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-189L	*46*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-105L	*58*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-208L	*53*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-1L	*29*		*5 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-104L	*43*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-81L	*56*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-77L	*57*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-205L	*55*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-155L	*42*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*55*		*5 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-111L	*76*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*
PCB-178L	*71*		*10 - 145*	*12/21/13 12:08*	*01/05/14 13:51*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-209	430000	E B	2100	55	pg/g	☼	12/21/13 12:08	02/07/14 06:41	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8300		480	330	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Antimony	15	U	24	15	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25

Client Sample ID: J2-SS-1_SS

Lab Sample ID: 680-96439-15

Date Collected: 11/21/13 08:55
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	290		120	6.0	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Beryllium	4.0	U	12	4.0	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Cadmium	2.4	U	12	2.4	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Calcium	63000		6000	320	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Chromium	270		24	7.3	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Cobalt	22	U	120	22	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Copper	67		60	17	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Iron	13000		240	71	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Lead	31		24	4.1	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Magnesium	16000		2400	200	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Manganese	2300		24	3.7	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Nickel	63	J	95	5.4	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Potassium	8000	U	12000	8000	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Selenium	6.9	U	36	6.9	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Silver	5.6	U	24	5.6	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Sodium	1200	J	2400	1100	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Titanium	4500		48	15	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Vanadium	820		120	30	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25
Zinc	85	J	120	47	mg/Kg	☼	12/03/13 09:29	12/31/13 22:09	25

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		4.8	1.2	mg/Kg	☼	12/03/13 09:05	12/25/13 12:17	10
Niobium	150	B	24	3.6	mg/Kg	☼	12/03/13 09:05	12/26/13 18:27	20
Thallium	0.72	U	2.4	0.72	mg/Kg	☼	12/03/13 09:05	12/25/13 12:17	10
Uranium	13		0.48	0.095	mg/Kg	☼	12/03/13 09:05	12/25/13 12:17	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.033	0.011	mg/Kg	☼	11/26/13 06:54	11/27/13 15:08	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	33		4.1	0.82	mg/Kg	☼		12/10/13 05:26	20
Sulfate	2900		100	10	mg/Kg	☼		12/10/13 05:26	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4300		410	41	mg/Kg	☼		12/10/13 19:59	200

Client Sample ID: S17-SS-2_SS

Lab Sample ID: 680-96439-16

Date Collected: 11/21/13 12:00
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Acenaphthylene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Anthracene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Benzo[a]anthracene	37	J	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Benzo[b]fluoranthene	81	J	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: S17-SS-2_SS
Date Collected: 11/21/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-16
Matrix: Solid
Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Benzo[g,h,i]perylene	**39**	**J**	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Benzo[a]pyrene	**43**	**J**	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Chrysene	**42**	**J**	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Dibenz(a,h)anthracene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Fluoranthene	**45**	**J**	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Fluorene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Indeno[1,2,3-cd]pyrene	**36**	**J**	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Naphthalene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Phenanthrene	34	U	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1
Pyrene	**49**	**J ***	330	34	ug/Kg	☼	12/02/13 12:17	12/04/13 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*85*		*53 - 97*	*12/02/13 12:17*	*12/04/13 04:15*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*46 - 111*	*12/02/13 12:17*	*12/04/13 04:15*	*1*
Nitrobenzene-d5 (Surr)	*84*		*55 - 98*	*12/02/13 12:17*	*12/04/13 04:15*	*1*
Phenol-d5 (Surr)	*79*		*54 - 101*	*12/02/13 12:17*	*12/04/13 04:15*	*1*
Terphenyl-d14 (Surr)	*71*		*58 - 123*	*12/02/13 12:17*	*12/04/13 04:15*	*1*
2-Fluorobiphenyl (Surr)	*86*		*56 - 97*	*12/02/13 12:17*	*12/04/13 04:15*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**290**	**J B**	400	4.8	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-2	**250**	**J B**	400	4.3	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-3	**180**	**J B**	400	4.0	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-4	**200**	**J q**	400	70	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-5	130	U	400	130	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-6	**260**	**J**	400	130	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-7	120	U	400	120	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-8	**660**		400	120	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-9	130	U	400	130	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-10	37	U	400	37	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-11	**740**	**q**	400	130	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-12/13	**330**	**J**	800	130	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-14	110	U	400	110	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-15	**770**	**q**	400	120	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-16	**500**		400	23	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-17	**370**	**J**	400	16	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-18/30	**830**		800	14	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-19	**54**	**J**	400	18	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-20/28	**2000**	**B**	800	28	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-21/33	**910**	**B**	800	26	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-22	**890**		400	30	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-23	25	U	400	25	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-24	12	U	400	12	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-25	**89**	**J q**	400	26	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-26/29	**150**	**J**	800	26	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-27	**60**	**J**	400	12	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-31	**1400**	**B**	400	26	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-32	**260**	**J**	400	9.3	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: S17-SS-2_SS
Date Collected: 11/21/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-16
Matrix: Solid
Percent Solids: 98.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-34	26	U	400	26	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-35	**130**	**J**	400	31	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-36	27	U	400	27	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-37	**1100**		400	37	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-38	29	U	400	29	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-39	27	U	400	27	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-40/71	**720**	**J**	800	6.4	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-41	**200**	**J**	400	8.3	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-42	**420**		400	7.1	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-43	**71**	**J**	400	7.3	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-44/47/65	**1500**	**B**	1200	6.1	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-45	**230**	**J**	400	7.2	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-46	**94**	**J**	400	7.6	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-48	**360**	**J**	400	6.5	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-49/69	**750**	**J B**	800	5.3	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-50/53	**170**	**J**	800	6.0	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-51	**46**	**J**	400	6.0	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-52	**1600**	**B**	400	6.7	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-54	5.1	U	400	5.1	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-55	16	U	400	16	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-56	**440**		400	18	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-57	16	U	400	16	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-58	16	U	400	16	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-59/62/75	**130**	**J**	1200	4.7	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-60	**240**	**J**	400	17	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-61/70/74/76	**1800**	**B**	1600	16	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-63	**48**	**J**	400	15	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-64	**600**	**B**	400	4.4	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-66	**1100**		400	18	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-67	**27**	**J**	400	15	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-68	14	U	400	14	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-72	16	U	400	16	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-73	5.0	U	400	5.0	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-77	**280**		40	24	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-78	18	U	400	18	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-79	**47**	**J**	400	16	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-80	15	U	400	15	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-81	22	U	40	22	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-82	**290**	**J**	400	58	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-83	**69**	**J q**	400	62	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-84	**440**		400	52	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-85/116/117	**400**	**J**	1200	39	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-86/87/97/108/119/125	**1500**	**J B**	2400	39	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-88/91	**210**	**J**	800	44	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-89	49	U	400	49	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-90/101/113	**1800**	**B**	1200	40	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-92	**330**	**J**	400	47	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-93/100	44	U	800	44	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-107/124	**110**	**J**	800	36	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10

Client Sample ID: S17-SS-2_SS
Date Collected: 11/21/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-16
Matrix: Solid
Percent Solids: 98.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-94	47	U	400	47	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-95	**1200**	**B**	400	43	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-96	**14**	**J**	400	4.3	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-98/102	41	U	800	41	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-99	**940**		400	46	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-103	41	U	400	41	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-104	4.1	U	400	4.1	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-105	**1300**	**G**	43	43	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-106	40	U	400	40	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-110/115	**2900**	**B**	800	35	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-109	**160**	**J**	400	34	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-111	32	U	400	32	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-112	31	U	400	31	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-114	**54**	**G**	41	41	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-115	**2900**	**B**	800	35	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-118	**2200**	**B**	40	38	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-120	34	U	400	34	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-121	32	U	400	32	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-122	40	U	400	40	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-123	38	U	40	38	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-126	54	U G	54	54	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-127	40	U	400	40	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-128/166	**550**	**J**	800	37	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-129/138/163	**2900**	**B**	1200	38	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-130	**200**	**J**	400	49	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-131	46	U	400	46	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-132	**810**		400	44	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-133	43	U	400	43	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-134/143	**110**	**J**	800	44	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-135/151	**510**	**J**	800	39	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-136	**190**	**J**	400	28	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-137	**160**	**J**	400	38	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-139/140	**41**	**J**	800	37	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-141	**440**		400	41	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-142	43	U	400	43	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-144	**87**	**J**	400	38	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-145	27	U	400	27	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-146	**320**	**J**	400	41	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-147/149	**1500**	**B**	800	38	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-148	38	U	400	38	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-150	25	U	400	25	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-152	26	U	400	26	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-153/168	**1900**	**B**	800	32	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-154	34	U	400	34	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-155	24	U	400	24	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-156/157	**520**		80	15	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-158	**330**	**J**	400	29	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-159	11	U	400	11	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-160	34	U	400	34	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: S17-SS-2_SS
Date Collected: 11/21/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-16
Matrix: Solid
Percent Solids: 98.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-161	29	U	400	29	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-162	**13**	**J q**	400	11	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-164	**220**	**J**	400	32	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-165	34	U	400	34	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-167	**180**		40	11	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-169	14	U	40	14	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-170	**640**		400	11	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-171/173	**230**	**J**	800	10	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-172	**110**	**J q**	400	11	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-174	**540**		400	11	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-175	**56**	**J**	400	6.5	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-176	**67**	**J**	400	4.3	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-177	**280**	**J**	400	11	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-178	**99**	**J**	400	6.8	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-179	**170**	**J**	400	4.7	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-180/193	**1400**	**B**	800	8.7	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-181	**19**	**J**	400	8.9	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-182	**25**	**J**	400	6.0	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-183	**300**	**J**	400	8.0	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-184	**50**	**J**	400	4.8	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-185	**25**	**J**	400	9.6	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-186	4.6	U	400	4.6	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-187	**560**		400	6.2	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-188	**24**	**J q**	400	4.6	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-189	**58**		40	9.3	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-190	**140**	**J**	400	8.1	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-191	**39**	**J**	400	7.8	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-192	**15**	**J q**	400	8.1	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-194	**400**		400	12	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-195	**120**	**J q**	400	11	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-196	**290**	**J**	400	6.3	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-197	**180**	**J**	400	4.2	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-198/199	**470**	**J**	800	6.6	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-200	**53**	**J**	400	4.3	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-201	**170**	**J**	400	4.2	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-202	**110**	**J**	400	5.2	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-203	**300**	**J**	400	5.9	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-204	**77**	**J**	400	4.4	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-205	**93**	**J**	400	8.0	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-206	**1200**		400	11	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-207	**1300**		400	8.4	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-208	**890**		400	10	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
PCB-209	**60000**	**E B**	400	9.5	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
Total Monochlorobiphenyls	**730**	**J B**	4000	4.4	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
Total Dichlorobiphenyls	**3000**	**J q**	4000	110	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
Total Trichlorobiphenyls	**8700**	**q B**	4000	23	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
Total Tetrachlorobiphenyls	**11000**	**B**	4000	12	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
Total Pentachlorobiphenyls	**14000**	**q B**	4000	40	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
Total Hexachlorobiphenyls	**11000**	**q B**	4000	32	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10

Client Sample ID: S17-SS-2_SS
Date Collected: 11/21/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-16
Matrix: Solid
Percent Solids: 98.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Heptachlorobiphenyls	4800	q B	4000	7.8	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
Total Octachlorobiphenyls	2300	J q	4000	6.5	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
Total Nonachlorobiphenyls	3300	J	4000	9.9	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10
Polychlorinated biphenyls, Total	120000	q B	4000	26	pg/g	☼	12/19/13 17:37	02/07/14 22:08	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*44*		*5 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-15L	*77*		*5 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-123L	*79*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-114L	*75*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-202L	*78*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-3L	*56*		*5 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-118L	*75*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-126L	*73*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-206L	*90*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-169L	*85*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-37L	*66*		*5 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-19L	*68*		*5 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-188L	*78*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-54L	*73*		*5 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-156L/157L	*77*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-167L	*84*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-209L	*97*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-189L	*74*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-105L	*75*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-208L	*89*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-1L	*35*		*5 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-104L	*64*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-81L	*78*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-77L	*72*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-205L	*79*	*q*	*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-155L	*74*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*101*		*5 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-111L	*89*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*
PCB-178L	*98*		*10 - 145*	*12/19/13 17:37*	*02/07/14 22:08*	*10*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	3.1		2.0	0.055	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
1,2,3,7,8-PeCDD	9.9	J	10	0.15	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
1,2,3,7,8-PeCDF	120		10	0.45	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
2,3,4,7,8-PeCDF	68	B	10	0.47	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
1,2,3,4,7,8-HxCDD	8.4	J B	10	0.092	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
1,2,3,6,7,8-HxCDD	15	B	10	0.065	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
1,2,3,7,8,9-HxCDD	17	B	10	0.067	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
1,2,3,4,7,8-HxCDF	300	B	10	0.52	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
1,2,3,6,7,8-HxCDF	150	B	10	0.38	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
1,2,3,7,8,9-HxCDF	19	B	10	0.50	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
2,3,4,6,7,8-HxCDF	55	B	10	0.45	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1

Client Sample ID: S17-SS-2_SS

Lab Sample ID: 680-96439-16

Date Collected: 11/21/13 12:00
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 98.3

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	63	B	10	0.30	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
1,2,3,4,6,7,8-HpCDF	660	B	10	0.77	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
1,2,3,4,7,8,9-HpCDF	230	B	10	0.91	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
OCDD	110	B	20	0.19	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1
OCDF	5300	B	20	0.98	pg/g	☼	12/19/13 15:47	01/08/14 02:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*92*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:48*	*1*
13C-2,3,7,8-TCDD	*89*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:48*	*1*
13C-1,2,3,7,8-PeCDD	*89*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:48*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*95*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:48*	*1*
13C-1,2,3,7,8-PeCDF	*89*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:48*	*1*
13C-2,3,7,8-TCDF	*85*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:48*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*96*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:48*	*1*
13C-OCDD	*99*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:48*	*1*
13C-1,2,3,4,7,8-HxCDF	*86*		*40 - 135*	*12/19/13 15:47*	*01/08/14 02:48*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	81	B	2.0	1.4	pg/g	☼	12/19/13 15:47	01/14/14 04:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*96*		*40 - 135*	*12/19/13 15:47*	*01/14/14 04:19*	*1*

Client Sample ID: BY-SS-4_SS

Lab Sample ID: 680-96439-17

Date Collected: 11/20/13 15:40
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 97.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6700		100	70	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Antimony	3.2	U	5.0	3.2	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Barium	130		25	1.2	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Beryllium	0.84	U	2.5	0.84	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Cadmium	0.50	U	2.5	0.50	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Calcium	16000		1200	66	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Chromium	13		5.0	1.5	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Cobalt	11	J	25	4.7	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Copper	17		12	3.6	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Iron	12000		50	15	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Lead	10		5.0	0.86	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Magnesium	5700		500	41	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Manganese	340		5.0	0.77	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Nickel	19	J	20	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Potassium	1700	U	2500	1700	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Selenium	1.4	U	7.5	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Silver	1.2	U	5.0	1.2	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Sodium	1700		500	230	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Titanium	670		10	3.1	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Vanadium	32		25	6.3	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5
Zinc	39		25	9.9	mg/Kg	☼	12/03/13 09:29	12/31/13 22:13	5

Client Sample ID: BY-SS-4_SS

Lab Sample ID: 680-96439-17

Date Collected: 11/20/13 15:40
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 97.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7	J	5.0	1.3	mg/Kg	☼	12/03/13 09:05	12/25/13 12:23	10
Niobium	2.9	J B	12	1.9	mg/Kg	☼	12/03/13 09:05	12/26/13 18:34	10
Thallium	0.76	U	2.5	0.76	mg/Kg	☼	12/03/13 09:05	12/25/13 12:23	10
Uranium	0.75		0.50	0.099	mg/Kg	☼	12/03/13 09:05	12/25/13 12:23	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.033	0.011	mg/Kg	☼	11/26/13 06:54	11/27/13 15:10	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	6.0		0.21	0.041	mg/Kg	☼		12/18/13 16:46	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	260		100	10	mg/Kg	☼		12/18/13 17:02	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		410	41	mg/Kg	☼		12/18/13 17:19	200

Client Sample ID: NS-SS-4_SS

Lab Sample ID: 680-96439-18

Date Collected: 11/20/13 14:44
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 97.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7000		89	63	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Antimony	2.9	U	4.5	2.9	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Barium	350		22	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Beryllium	0.76	U	2.2	0.76	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Cadmium	0.45	U	2.2	0.45	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Calcium	24000		1100	59	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Chromium	23		4.5	1.4	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Cobalt	10	J	22	4.2	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Copper	34		11	3.3	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Iron	13000		45	13	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Lead	22		4.5	0.77	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Magnesium	7300		450	37	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Manganese	780		4.5	0.69	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Nickel	17	J	18	1.0	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Potassium	1800	J	2200	1500	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Selenium	1.3	U	6.7	1.3	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Silver	1.0	U	4.5	1.0	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Sodium	430	J	450	210	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Titanium	720		8.9	2.8	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Vanadium	54		22	5.6	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5
Zinc	52		22	8.9	mg/Kg	☼	12/03/13 09:29	12/31/13 22:17	5

Client Sample ID: NS-SS-4_SS

Lab Sample ID: 680-96439-18

Date Collected: 11/20/13 14:44
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 97.7

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		4.5	1.2	mg/Kg	☼	12/03/13 09:05	12/25/13 12:30	10
Niobium	13	B	11	1.7	mg/Kg	☼	12/03/13 09:05	12/26/13 18:41	10
Thallium	0.68	U	2.2	0.68	mg/Kg	☼	12/03/13 09:05	12/25/13 12:30	10
Uranium	1.3		0.45	0.089	mg/Kg	☼	12/03/13 09:05	12/25/13 12:30	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	J	0.031	0.010	mg/Kg	☼	11/26/13 06:54	11/27/13 15:11	1

Client Sample ID: NS-SS-3_SS

Lab Sample ID: 680-96439-19

Date Collected: 11/20/13 15:05
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 97.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6500		950	660	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Antimony	40	J	47	30	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Barium	6100		240	12	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Beryllium	8.0	U	24	8.0	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Cadmium	4.7	U	24	4.7	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Calcium	170000		12000	630	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Chromium	950		47	15	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Cobalt	64	J	240	44	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Copper	120		120	34	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Iron	19000		470	140	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Lead	520		47	8.1	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Magnesium	21000		4700	390	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Manganese	33000		47	7.3	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Nickel	63	J	190	11	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Potassium	16000	U	24000	16000	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Selenium	14	U	71	14	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Silver	11	U	47	11	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Sodium	2300	J	4700	2200	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Titanium	3800		95	30	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Vanadium	600		240	60	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50
Zinc	700		240	94	mg/Kg	☼	12/03/13 09:29	12/31/13 22:21	50

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	200		4.7	1.2	mg/Kg	☼	12/03/13 09:05	12/25/13 12:37	10
Niobium	38	B	12	1.8	mg/Kg	☼	12/03/13 09:05	12/26/13 18:48	10
Thallium	42		2.4	0.72	mg/Kg	☼	12/03/13 09:05	12/25/13 12:37	10
Uranium	4.5		0.47	0.094	mg/Kg	☼	12/03/13 09:05	12/25/13 12:37	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.70		0.032	0.011	mg/Kg	☼	11/26/13 06:54	11/27/13 15:13	1

Client Sample ID: NS-SS-2_SS

Lab Sample ID: 680-96439-20

Date Collected: 11/20/13 14:55

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 97.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6500**		500	350	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Antimony	16	U	25	16	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Barium	**420**		130	6.3	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Beryllium	4.3	U	13	4.3	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Cadmium	2.5	U	13	2.5	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Calcium	**12000**		6300	330	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Chromium	**640**		25	7.7	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Cobalt	24	U	130	24	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Copper	**86**		63	18	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Iron	**10000**		250	75	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Lead	**69**		25	4.3	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Magnesium	**4900**		2500	210	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Manganese	**1000**		25	3.9	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Nickel	**77**	**J**	100	5.7	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Potassium	8500	U	13000	8500	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Selenium	7.3	U	38	7.3	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Silver	**14**	**J**	25	5.9	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Sodium	**3000**		2500	1200	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Titanium	**5400**		50	16	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Vanadium	**1100**		130	32	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25
Zinc	50	U	130	50	mg/Kg	☼	12/03/13 09:29	12/31/13 22:25	25

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.9**	**J**	5.0	1.3	mg/Kg	☼	12/03/13 09:05	12/25/13 12:44	10
Niobium	**280**	**B**	63	9.6	mg/Kg	☼	12/03/13 09:05	12/26/13 18:54	50
Thallium	0.76	U	2.5	0.76	mg/Kg	☼	12/03/13 09:05	12/25/13 12:44	10
Uranium	**26**		0.50	0.10	mg/Kg	☼	12/03/13 09:05	12/25/13 12:44	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**		0.031	0.010	mg/Kg	☼	11/26/13 06:54	11/27/13 15:14	1

Client Sample ID: BY-SS-2_SS

Lab Sample ID: 680-96439-21

Date Collected: 11/20/13 15:25

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 97.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6900**		86	60	mg/Kg	☼	12/03/13 09:19	12/10/13 17:56	5
Antimony	1.1	U	1.7	1.1	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Barium	**150**		8.6	0.43	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Beryllium	**0.52**	**J**	0.86	0.29	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Cadmium	0.17	U	0.86	0.17	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Calcium	**16000**		1100	57	mg/Kg	☼	12/03/13 09:19	12/10/13 17:56	5
Chromium	**12**		1.7	0.53	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Cobalt	**9.0**		8.6	1.6	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Copper	**22**		4.3	1.3	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Iron	**14000**		17	5.1	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Lead	**17**		1.7	0.30	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2

Client Sample ID: BY-SS-2_SS

Lab Sample ID: 680-96439-21

Date Collected: 11/20/13 15:25
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 97.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	12000		170	14	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Manganese	710		1.7	0.27	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Nickel	16		6.9	0.39	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Potassium	1900	J	2200	1500	mg/Kg	☼	12/03/13 09:19	12/10/13 17:56	5
Selenium	0.50	U	2.6	0.50	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Silver	0.40	U	1.7	0.40	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Sodium	890		430	200	mg/Kg	☼	12/03/13 09:19	12/10/13 17:56	5
Titanium	590		3.5	1.1	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Vanadium	34		8.6	2.2	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2
Zinc	50		8.6	3.4	mg/Kg	☼	12/03/13 09:19	12/03/13 22:42	2

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.2		4.3	1.1	mg/Kg	☼	12/03/13 09:24	12/25/13 04:38	10
Niobium	2.4	J	11	1.6	mg/Kg	☼	12/03/13 09:24	12/25/13 04:38	10
Thallium	0.66	U	2.2	0.66	mg/Kg	☼	12/03/13 09:24	12/25/13 04:38	10
Uranium	1.3		0.43	0.086	mg/Kg	☼	12/03/13 09:24	12/25/13 04:38	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024	J	0.030	0.010	mg/Kg	☼	11/26/13 06:54	11/27/13 15:20	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1700		100	10	mg/Kg	☼		12/18/13 18:24	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	310		41	8.2	mg/Kg	☼		12/18/13 18:41	200

General Chemistry - Soluble - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11000		1000	100	mg/Kg	☼		12/19/13 12:02	500

Client Sample ID: RINSATE

Lab Sample ID: 680-96439-22

Date Collected: 11/21/13 11:30
Matrix: Water
Date Received: 11/22/13 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Acenaphthylene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Anthracene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Benzo[a]anthracene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Benzo[b]fluoranthene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Benzo[k]fluoranthene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Benzo[g,h,i]perylene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Benzo[a]pyrene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Chrysene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Dibenz(a,h)anthracene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Fluoranthene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1

Client Sample ID: RINSATE
Date Collected: 11/21/13 11:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Indeno[1,2,3-cd]pyrene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Naphthalene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Phenanthrene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1
Pyrene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*69*		*10 - 74*	*11/22/13 17:26*	*11/27/13 15:57*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*47 - 103*	*11/22/13 17:26*	*11/27/13 15:57*	*1*
Nitrobenzene-d5 (Surr)	*78*		*31 - 105*	*11/22/13 17:26*	*11/27/13 15:57*	*1*
Phenol-d5 (Surr)	*68*	*X*	*10 - 50*	*11/22/13 17:26*	*11/27/13 15:57*	*1*
Terphenyl-d14 (Surr)	*69*		*68 - 116*	*11/22/13 17:26*	*11/27/13 15:57*	*1*
2-Fluorobiphenyl (Surr)	*72*		*30 - 99*	*11/22/13 17:26*	*11/27/13 15:57*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**5.7**	**J q B**	210	2.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-2	2.0	U	210	2.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-3	2.1	U	210	2.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-4	91	U	210	91	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-5	53	U	210	53	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-6	53	U	210	53	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-7	49	U	210	49	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-8	52	U	210	52	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-9	56	U	210	56	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-10	63	U	210	63	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-11	55	U	210	55	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-12/13	55	U	410	55	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-14	46	U	210	46	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-15	61	U	210	61	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-16	7.7	U	210	7.7	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-17	5.4	U	210	5.4	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-18/30	**8.1**	**J q B**	410	4.6	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-19	5.9	U	210	5.9	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-20/28	**13**	**J B**	410	3.9	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-21/33	**8.0**	**J B**	410	3.7	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-22	4.2	U	210	4.2	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-23	3.6	U	210	3.6	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-24	4.0	U	210	4.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-25	3.7	U	210	3.7	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-26/29	3.7	U	410	3.7	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-27	4.0	U	210	4.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-31	**13**	**J q B**	210	3.7	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-32	3.1	U	210	3.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-34	3.7	U	210	3.7	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-35	4.3	U	210	4.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-36	3.8	U	210	3.8	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-37	5.2	U	210	5.2	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-38	4.1	U	210	4.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-39	3.8	U	210	3.8	pg/L		12/12/13 14:53	12/20/13 21:38	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: RINSATE
Date Collected: 11/21/13 11:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-22
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-40/71	**6.1**	**J q B**	410	2.7	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-41	3.5	U	210	3.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-42	**6.1**	**J q**	210	3.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-43	3.1	U	210	3.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-44/47/65	**27**	**J B**	620	2.6	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-45	3.0	U	210	3.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-46	3.2	U	210	3.2	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-48	2.7	U	210	2.7	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-49/69	**12**	**J B**	410	2.2	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-50/53	2.5	U	410	2.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-51	2.5	U	210	2.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-52	**32**	**J q B**	210	2.8	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-54	2.4	U	210	2.4	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-55	4.1	U	210	4.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-56	4.5	U	210	4.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-57	4.1	U	210	4.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-58	4.1	U	210	4.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-59/62/75	2.0	U	620	2.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-60	4.3	U	210	4.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-61/70/74/76	**25**	**J q B**	820	4.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-63	3.8	U	210	3.8	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-64	**6.9**	**J B**	210	1.9	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-66	**11**	**J B**	210	4.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-67	3.8	U	210	3.8	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-68	3.6	U	210	3.6	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-72	3.9	U	210	3.9	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-73	2.1	U	210	2.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-77	5.9	U	21	5.9	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-78	4.6	U	210	4.6	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-79	4.0	U	210	4.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-80	3.8	U	210	3.8	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-81	5.6	U	21	5.6	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-82	9.2	U	210	9.2	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-83	10	U	210	10	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-84	8.3	U	210	8.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-85/116/117	6.2	U	620	6.2	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-86/87/97/108/119/125	6.3	U	1200	6.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-88/91	7.0	U	410	7.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-89	7.9	U	210	7.9	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-90/101/113	**15**	**J B**	620	6.4	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-92	7.5	U	210	7.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-93/100	7.1	U	410	7.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-107/124	5.8	U	410	5.8	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-94	7.5	U	210	7.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-95	**13**	**J q B**	210	6.9	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-96	2.5	U	210	2.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-98/102	6.6	U	410	6.6	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-99	7.4	U	210	7.4	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-103	6.5	U	210	6.5	pg/L		12/12/13 14:53	12/20/13 21:38	1

Client Sample ID: RINSATE
Date Collected: 11/21/13 11:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-22
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-104	2.5	U	210	2.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-105	6.9	U	21	6.9	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-106	6.3	U	210	6.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-110/115	**18**	**J B**	410	5.6	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-109	5.4	U	210	5.4	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-111	5.2	U	210	5.2	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-112	5.0	U	210	5.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-114	6.5	U	21	6.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-115	**18**	**J B**	410	5.6	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-118	**9.0**	**J q B**	21	6.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-120	5.5	U	210	5.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-121	5.1	U	210	5.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-122	6.5	U	210	6.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-123	6.0	U	21	6.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-126	8.1	U	21	8.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-127	6.3	U	210	6.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-128/166	6.0	U	410	6.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-129/138/163	**11**	**J q B**	620	6.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-130	8.0	U	210	8.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-131	7.6	U	210	7.6	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-132	7.2	U	210	7.2	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-133	7.1	U	210	7.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-134/143	7.2	U	410	7.2	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-135/151	6.4	U	410	6.4	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-136	4.6	U	210	4.6	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-137	6.3	U	210	6.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-139/140	6.1	U	410	6.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-141	6.7	U	210	6.7	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-142	7.0	U	210	7.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-144	6.3	U	210	6.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-145	4.5	U	210	4.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-146	6.7	U	210	6.7	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-147/149	**10**	**J q B**	410	6.2	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-148	6.2	U	210	6.2	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-150	4.2	U	210	4.2	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-152	4.3	U	210	4.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-153/168	**5.4**	**J B**	410	5.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-154	5.5	U	210	5.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-155	4.5	U	210	4.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-156/157	5.3	U	41	5.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-158	4.8	U	210	4.8	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-159	4.3	U	210	4.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-160	5.5	U	210	5.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-161	4.8	U	210	4.8	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-162	4.1	U	210	4.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-164	5.3	U	210	5.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-165	5.5	U	210	5.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-167	4.0	U	21	4.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-169	5.2	U	21	5.2	pg/L		12/12/13 14:53	12/20/13 21:38	1

Client Sample ID: RINSATE
Date Collected: 11/21/13 11:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-22
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-170	3.0	U	210	3.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-171/173	2.8	U	410	2.8	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-172	2.8	U	210	2.8	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-174	2.8	U	210	2.8	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-175	6.7	U	210	6.7	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-176	4.5	U	210	4.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-177	2.8	U	210	2.8	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-178	7.0	U	210	7.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-179	4.9	U	210	4.9	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-180/193	2.3	U	410	2.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-181	2.3	U	210	2.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-182	6.2	U	210	6.2	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-183	**4.3**	**J**	210	2.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-184	5.0	U	210	5.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-185	2.5	U	210	2.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-186	4.8	U	210	4.8	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-187	6.5	U	210	6.5	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-188	4.7	U	210	4.7	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-189	8.1	U	21	8.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-190	2.1	U	210	2.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-191	2.1	U	210	2.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-192	2.1	U	210	2.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-194	6.4	U	210	6.4	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-195	5.9	U	210	5.9	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-196	4.4	U	210	4.4	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-197	3.0	U	210	3.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-198/199	4.6	U	410	4.6	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-200	3.0	U	210	3.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-201	3.0	U	210	3.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-202	3.3	U	210	3.3	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-203	4.1	U	210	4.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-204	3.1	U	210	3.1	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-205	4.9	U	210	4.9	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-206	6.7	U	210	6.7	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-207	5.0	U	210	5.0	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-208	5.9	U	210	5.9	pg/L		12/12/13 14:53	12/20/13 21:38	1
PCB-209	4.0	U	210	4.0	pg/L		12/12/13 14:53	12/20/13 21:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*43*		*5 - 145*	*12/12/13 14:53*	*12/20/13 21:38*	*1*
PCB-3L	*49*		*5 - 145*	*12/12/13 14:53*	*12/20/13 21:38*	*1*
PCB-4L	*55*		*5 - 145*	*12/12/13 14:53*	*12/20/13 21:38*	*1*
PCB-15L	*58*		*5 - 145*	*12/12/13 14:53*	*12/20/13 21:38*	*1*
PCB-19L	*62*		*5 - 145*	*12/12/13 14:53*	*12/20/13 21:38*	*1*
PCB-37L	*55*		*5 - 145*	*12/12/13 14:53*	*12/20/13 21:38*	*1*
PCB-54L	*61*		*5 - 145*	*12/12/13 14:53*	*12/20/13 21:38*	*1*
PCB-77L	*61*		*10 - 145*	*12/12/13 14:53*	*12/20/13 21:38*	*1*
PCB-81L	*61*		*10 - 145*	*12/12/13 14:53*	*12/20/13 21:38*	*1*
PCB-104L	*52*		*10 - 145*	*12/12/13 14:53*	*12/20/13 21:38*	*1*
PCB-105L	*64*		*10 - 145*	*12/12/13 14:53*	*12/20/13 21:38*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: RINSATE
Date Collected: 11/21/13 11:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-22
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-114L	62		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-118L	65		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-123L	65		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-126L	64		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-155L	54		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-156L/157L	67		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-167L	67		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-169L	68		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-188L	76		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-189L	73		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-202L	86		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-205L	81		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-206L	89		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-208L	87		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-209L	87		10 - 145	12/12/13 14:53	12/20/13 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	67		5 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-111L	77		10 - 145	12/12/13 14:53	12/20/13 21:38	1
PCB-178L	96		10 - 145	12/12/13 14:53	12/20/13 21:38	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.27	U	10	0.27	pg/L		12/05/13 13:52	12/27/13 19:27	1
2,3,7,8-TCDF	0.29	U	10	0.29	pg/L		12/05/13 13:52	12/27/13 19:27	1
1,2,3,7,8-PeCDD	0.54	U	52	0.54	pg/L		12/05/13 13:52	12/27/13 19:27	1
1,2,3,7,8-PeCDF	0.62	U	52	0.62	pg/L		12/05/13 13:52	12/27/13 19:27	1
2,3,4,7,8-PeCDF	0.64	U	52	0.64	pg/L		12/05/13 13:52	12/27/13 19:27	1
1,2,3,4,7,8-HxCDD	0.29	U	52	0.29	pg/L		12/05/13 13:52	12/27/13 19:27	1
1,2,3,6,7,8-HxCDD	0.28	U	52	0.28	pg/L		12/05/13 13:52	12/27/13 19:27	1
1,2,3,7,8,9-HxCDD	0.24	U	52	0.24	pg/L		12/05/13 13:52	12/27/13 19:27	1
1,2,3,4,7,8-HxCDF	**1.5**	**J q B**	52	0.27	pg/L		12/05/13 13:52	12/27/13 19:27	1
1,2,3,6,7,8-HxCDF	0.24	U	52	0.24	pg/L		12/05/13 13:52	12/27/13 19:27	1
1,2,3,7,8,9-HxCDF	0.27	U	52	0.27	pg/L		12/05/13 13:52	12/27/13 19:27	1
2,3,4,6,7,8-HxCDF	0.26	U	52	0.26	pg/L		12/05/13 13:52	12/27/13 19:27	1
1,2,3,4,6,7,8-HpCDD	0.36	U	52	0.36	pg/L		12/05/13 13:52	12/27/13 19:27	1
1,2,3,4,6,7,8-HpCDF	**4.4**	**J**	52	0.34	pg/L		12/05/13 13:52	12/27/13 19:27	1
1,2,3,4,7,8,9-HpCDF	0.41	U	52	0.41	pg/L		12/05/13 13:52	12/27/13 19:27	1
OCDD	**3.2**	**J B**	100	0.50	pg/L		12/05/13 13:52	12/27/13 19:27	1
OCDF	**2.8**	**J B**	100	0.60	pg/L		12/05/13 13:52	12/27/13 19:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	87		40 - 135	12/05/13 13:52	12/27/13 19:27	1
13C-2,3,7,8-TCDF	89		40 - 135	12/05/13 13:52	12/27/13 19:27	1
13C-1,2,3,7,8-PeCDD	94		40 - 135	12/05/13 13:52	12/27/13 19:27	1
13C-1,2,3,7,8-PeCDF	90		40 - 135	12/05/13 13:52	12/27/13 19:27	1
13C-1,2,3,6,7,8-HxCDD	91		40 - 135	12/05/13 13:52	12/27/13 19:27	1
13C-1,2,3,4,7,8-HxCDF	82		40 - 135	12/05/13 13:52	12/27/13 19:27	1
13C-1,2,3,4,6,7,8-HpCDD	92		40 - 135	12/05/13 13:52	12/27/13 19:27	1
13C-1,2,3,4,6,7,8-HpCDF	92		40 - 135	12/05/13 13:52	12/27/13 19:27	1
13C-OCDD	85		40 - 135	12/05/13 13:52	12/27/13 19:27	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: RINSATE
Date Collected: 11/21/13 11:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-22
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	6.0	U	10	6.0	ug/L		12/18/13 13:53	12/20/13 22:00	1
Aluminum	80	U	200	80	ug/L		12/18/13 13:53	12/20/13 22:00	1
Barium	4.0	U	50	4.0	ug/L		12/18/13 13:53	12/20/13 22:00	1
Beryllium	0.61	U	5.0	0.61	ug/L		12/18/13 13:53	12/20/13 22:00	1
Calcium	110	U	1000	110	ug/L		12/18/13 13:53	12/20/13 22:00	1
Cadmium	0.91	U	5.0	0.91	ug/L		12/18/13 13:53	12/20/13 22:00	1
Cobalt	4.9	U	50	4.9	ug/L		12/18/13 13:53	12/20/13 22:00	1
Chromium	3.1	U	10	3.1	ug/L		12/18/13 13:53	12/20/13 22:00	1
Copper	4.6	U	25	4.6	ug/L		12/18/13 13:53	12/20/13 22:00	1
Iron	28	U	100	28	ug/L		12/18/13 13:53	12/20/13 22:00	1
Potassium	1700	U	5000	1700	ug/L		12/18/13 13:53	12/20/13 22:00	1
Magnesium	130	U	1000	130	ug/L		12/18/13 13:53	12/20/13 22:00	1
Manganese	3.3	U	15	3.3	ug/L		12/18/13 13:53	12/20/13 22:00	1
Sodium	320	U	1000	320	ug/L		12/18/13 13:53	12/20/13 22:00	1
Nickel	13	U	40	13	ug/L		12/18/13 13:53	12/20/13 22:00	1
Lead	1.5	U	10	1.5	ug/L		12/18/13 13:53	12/20/13 22:00	1
Antimony	4.0	U	10	4.0	ug/L		12/18/13 13:53	12/20/13 22:00	1
Selenium	2.7	U	15	2.7	ug/L		12/18/13 13:53	12/20/13 22:00	1
Titanium	2.4	U	20	2.4	ug/L		12/18/13 13:53	12/20/13 22:00	1
Vanadium	4.1	U	50	4.1	ug/L		12/18/13 13:53	12/20/13 22:00	1
Zinc	5.2	U	20	5.2	ug/L		12/18/13 13:53	12/20/13 22:00	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		12/18/13 13:55	12/26/13 19:01	1
Niobium	**2.5**	**J**	25	2.2	ug/L		12/18/13 13:55	12/26/13 19:01	1
Thallium	0.55	U	2.0	0.55	ug/L		12/18/13 13:55	12/26/13 19:01	1
Uranium	0.23	U	1.0	0.23	ug/L		12/18/13 13:55	12/26/13 19:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		11/27/13 08:55	11/27/13 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.011**	**J**	0.020	0.0040	mg/L			11/22/13 14:32	1
Chloride	0.020	U	0.20	0.020	mg/L			11/22/13 14:32	1
Sulfate	0.050	U	0.50	0.050	mg/L			11/22/13 14:32	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	0.873	U	3.00	1.29	pCi/L		12/27/13 12:05	12/30/13 08:33	1
Gross Beta	0.209	U	4.00	0.864	pCi/L		12/27/13 12:05	12/30/13 08:33	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	25.7	U		37.4	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Bismuth-212	10.2	U		148	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Bismuth-214	18.4	U		28.0	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Bismuth-210M	-0.851	U		15.9	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Cesium-134	-2.73	U		9.62	pCi/L		12/09/13 13:26	01/01/14 17:24	1

Client Sample ID: RINSATE
Date Collected: 11/21/13 11:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-22
Matrix: Water

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Cesium-137	1.00	U		11.6	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Cobalt-57	2.73	U		7.07	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Cobalt-60	-0.354	U		14.6	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Lead-212	8.17	U		20.3	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Lead-214	**36.8**			25.1	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Potassium-40	-33.0	U		194	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Protactinium-231	27.8	U		276	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Protactinium-234	-0.355	U		39.8	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Radium-224	-55.3	U		242	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Thallium-208	-1.59	U		13.5	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Thorium-227	-9.50	U		71.0	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Thorium-231	**62.6**			50.3	pCi/L		12/09/13 13:26	01/01/14 17:24	1
Thorium-234	127	U		234	pCi/L		12/09/13 13:26	01/01/14 17:24	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.0524	U	1.00	0.0769	pCi/L		11/25/13 15:03	12/17/13 08:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.4*		*40 - 110*	*11/25/13 15:03*	*12/17/13 08:53*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.290	U	1.00	0.410	pCi/L		11/25/13 15:06	12/11/13 10:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.4*		*40 - 110*	*11/25/13 15:06*	*12/11/13 10:56*	*1*
Y Carrier	*85.6*		*40 - 110*	*11/25/13 15:06*	*12/11/13 10:56*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**0.288**		1.00	0.259	pCi/L		12/24/13 09:24	12/30/13 20:40	1
Thorium-230	0.156	U	1.00	0.227	pCi/L		12/24/13 09:24	12/30/13 20:40	1
Thorium-232	0.0706	U	1.00	0.140	pCi/L		12/24/13 09:24	12/30/13 20:40	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*70.8*		*30 - 110*	*12/24/13 09:24*	*12/30/13 20:40*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
U-238	0.0500	U	1.00	0.136	pCi/L		01/02/14 08:22	01/04/14 17:17	1
Uranium-235/236	0.000	U	1.00	0.0832	pCi/L		01/02/14 08:22	01/04/14 17:17	1
Uranium-233/234	0.0195	U	1.00	0.152	pCi/L		01/02/14 08:22	01/04/14 17:17	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*84.0*		*30 - 110*	*01/02/14 08:22*	*01/04/14 17:17*	*1*

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

Lab Sample ID: MB 160-87577/1-A
Matrix: Water
Analysis Batch: 88862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Acenaphthylene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Anthracene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Benzo[a]anthracene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Benzo[b]fluoranthene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Benzo[k]fluoranthene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Benzo[g,h,i]perylene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Benzo[a]pyrene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Chrysene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Dibenz(a,h)anthracene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Fluoranthene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Fluorene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Indeno[1,2,3-cd]pyrene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Naphthalene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Phenanthrene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1
Pyrene	1.0	U	10	1.0	ug/L		11/22/13 17:26	11/27/13 20:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*40*		*10 - 74*	*11/22/13 17:26*	*11/27/13 20:25*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*47 - 103*	*11/22/13 17:26*	*11/27/13 20:25*	*1*
Nitrobenzene-d5 (Surr)	*71*		*31 - 105*	*11/22/13 17:26*	*11/27/13 20:25*	*1*
Phenol-d5 (Surr)	*24*		*10 - 50*	*11/22/13 17:26*	*11/27/13 20:25*	*1*
Terphenyl-d14 (Surr)	*82*		*68 - 116*	*11/22/13 17:26*	*11/27/13 20:25*	*1*
2-Fluorobiphenyl (Surr)	*66*		*30 - 99*	*11/22/13 17:26*	*11/27/13 20:25*	*1*

Lab Sample ID: LCS 160-87577/2-A
Matrix: Water
Analysis Batch: 88862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87577

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	100	78.8		ug/L		79	55 - 92
Acenaphthylene	100	81.1		ug/L		81	56 - 93
Anthracene	100	80.8		ug/L		81	60 - 93
Benzo[a]anthracene	100	84.7		ug/L		85	72 - 106
Benzo[b]fluoranthene	100	85.6		ug/L		86	67 - 103
Benzo[k]fluoranthene	100	87.0		ug/L		87	66 - 107
Benzo[g,h,i]perylene	100	79.6		ug/L		80	63 - 117
Benzo[a]pyrene	100	84.6		ug/L		85	62 - 94
Chrysene	100	77.6		ug/L		78	64 - 94
Dibenz(a,h)anthracene	100	81.3		ug/L		81	66 - 110
Fluoranthene	100	85.2		ug/L		85	63 - 93
Fluorene	100	80.3		ug/L		80	60 - 89
Indeno[1,2,3-cd]pyrene	100	79.2		ug/L		79	64 - 112
Naphthalene	100	71.4		ug/L		71	52 - 88
Phenanthrene	100	81.6		ug/L		82	60 - 93
Pyrene	100	82.4		ug/L		82	58 - 102

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

Lab Sample ID: LCS 160-87577/2-A
Matrix: Water
Analysis Batch: 88862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87577

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*42*		*10 - 74*
2,4,6-Tribromophenol (Surr)	*85*		*47 - 103*
Nitrobenzene-d5 (Surr)	*79*		*31 - 105*
Phenol-d5 (Surr)	*27*		*10 - 50*
Terphenyl-d14 (Surr)	*76*		*68 - 116*
2-Fluorobiphenyl (Surr)	*77*		*30 - 99*

Lab Sample ID: LCSD 160-87577/3-A
Matrix: Water
Analysis Batch: 88862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87577

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			100	80.2		ug/L		80	55 - 92	2	20
Acenaphthylene			100	82.2		ug/L		82	56 - 93	1	20
Anthracene			100	84.6		ug/L		85	60 - 93	5	20
Benzo[a]anthracene			100	89.1		ug/L		89	72 - 106	5	20
Benzo[b]fluoranthene			100	89.8		ug/L		90	67 - 103	5	20
Benzo[k]fluoranthene			100	91.9		ug/L		92	66 - 107	6	20
Benzo[g,h,i]perylene			100	85.6		ug/L		86	63 - 117	7	20
Benzo[a]pyrene			100	89.4		ug/L		89	62 - 94	5	20
Chrysene			100	82.2		ug/L		82	64 - 94	6	20
Dibenz(a,h)anthracene			100	87.2		ug/L		87	66 - 110	7	20
Fluoranthene			100	90.2		ug/L		90	63 - 93	6	20
Fluorene			100	82.2		ug/L		82	60 - 89	2	20
Indeno[1,2,3-cd]pyrene			100	82.9		ug/L		83	64 - 112	5	20
Naphthalene			100	74.2		ug/L		74	52 - 88	4	20
Phenanthrene			100	85.6		ug/L		86	60 - 93	5	20
Pyrene			100	85.9		ug/L		86	58 - 102	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*44*		*10 - 74*
2,4,6-Tribromophenol (Surr)	*87*		*47 - 103*
Nitrobenzene-d5 (Surr)	*83*		*31 - 105*
Phenol-d5 (Surr)	*27*		*10 - 50*
Terphenyl-d14 (Surr)	*79*		*68 - 116*
2-Fluorobiphenyl (Surr)	*78*		*30 - 99*

Lab Sample ID: MB 160-88803/1-A
Matrix: Solid
Analysis Batch: 89755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Acenaphthylene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Anthracene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Benzo[a]anthracene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Benzo[b]fluoranthene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Benzo[k]fluoranthene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1

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

Lab Sample ID: MB 160-88803/1-A
Matrix: Solid
Analysis Batch: 89755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Benzo[a]pyrene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Chrysene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Dibenz(a,h)anthracene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Fluoranthene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Fluorene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Indeno[1,2,3-cd]pyrene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Naphthalene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Phenanthrene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Pyrene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*96*		*53 - 97*	*12/02/13 12:17*	*12/03/13 20:29*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*46 - 111*	*12/02/13 12:17*	*12/03/13 20:29*	*1*
Nitrobenzene-d5 (Surr)	*92*		*55 - 98*	*12/02/13 12:17*	*12/03/13 20:29*	*1*
Phenol-d5 (Surr)	*94*		*54 - 101*	*12/02/13 12:17*	*12/03/13 20:29*	*1*
Terphenyl-d14 (Surr)	*78*		*58 - 123*	*12/02/13 12:17*	*12/03/13 20:29*	*1*
2-Fluorobiphenyl (Surr)	*94*		*56 - 97*	*12/02/13 12:17*	*12/03/13 20:29*	*1*

Lab Sample ID: LCS 160-88803/2-A
Matrix: Solid
Analysis Batch: 89755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	3330	3100		ug/Kg		93	63 - 95
Acenaphthylene	3330	3160		ug/Kg		95	62 - 98
Anthracene	3330	3140		ug/Kg		94	63 - 100
Benzo[a]anthracene	3330	3470		ug/Kg		104	74 - 114
Benzo[b]fluoranthene	3330	3370		ug/Kg		101	68 - 109
Benzo[k]fluoranthene	3330	3310		ug/Kg		99	69 - 111
Benzo[g,h,i]perylene	3330	3460		ug/Kg		104	67 - 121
Benzo[a]pyrene	3330	3390		ug/Kg		102	63 - 103
Chrysene	3330	3150		ug/Kg		95	66 - 100
Dibenz(a,h)anthracene	3330	3500		ug/Kg		105	67 - 114
Fluoranthene	3330	3230		ug/Kg		97	63 - 101
Fluorene	3330	3040		ug/Kg		91	62 - 96
Indeno[1,2,3-cd]pyrene	3330	3500		ug/Kg		105	65 - 120
Naphthalene	3330	2900		ug/Kg		87	60 - 90
Phenanthrene	3330	3210		ug/Kg		96	63 - 99
Pyrene	3330	3420	*	ug/Kg		103	64 - 102

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*89*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*90*		*46 - 111*
Nitrobenzene-d5 (Surr)	*89*		*55 - 98*
Phenol-d5 (Surr)	*87*		*54 - 101*
Terphenyl-d14 (Surr)	*63*		*58 - 123*

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

Lab Sample ID: LCS 160-88803/2-A
Matrix: Solid
Analysis Batch: 89755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88803

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	92		56 - 97

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 89755

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 88803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	35	U	3460	3050		ug/Kg	☼	88	57 - 94
Acenaphthylene	35	U	3460	2850		ug/Kg	☼	82	57 - 97
Anthracene	35	U	3460	2250		ug/Kg	☼	65	58 - 99
Benzo[a]anthracene	35	U	3460	2500		ug/Kg	☼	72	68 - 114
Benzo[b]fluoranthene	35	U *	3460	30100	E F *	ug/Kg	☼	869	63 - 107
Benzo[k]fluoranthene	35	U *	3460	23100	E F *	ug/Kg	☼	669	65 - 108
Benzo[g,h,i]perylene	35	U *	3460	12400	E F *	ug/Kg	☼	358	54 - 127
Benzo[a]pyrene	35	U *	3460	4950	F *	ug/Kg	☼	143	61 - 102
Chrysene	35	U	3460	3270		ug/Kg	☼	94	61 - 100
Dibenz(a,h)anthracene	35	U *	3460	19400	E F *	ug/Kg	☼	560	59 - 118
Fluoranthene	35	U	3460	2970		ug/Kg	☼	86	58 - 103
Fluorene	35	U	3460	3120		ug/Kg	☼	90	58 - 97
Indeno[1,2,3-cd]pyrene	35	U *	3460	16500	E F *	ug/Kg	☼	478	56 - 123
Naphthalene	35	U	3460	2380		ug/Kg	☼	69	52 - 86
Phenanthrene	35	U	3460	3270		ug/Kg	☼	94	60 - 98
Pyrene	35	U *	3460	3250		ug/Kg	☼	94	53 - 106

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol (Surr)	67		53 - 97
2,4,6-Tribromophenol (Surr)	87		46 - 111
Nitrobenzene-d5 (Surr)	70		55 - 98
Phenol-d5 (Surr)	73		54 - 101
Terphenyl-d14 (Surr)	80		58 - 123
2-Fluorobiphenyl (Surr)	91		56 - 97

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 89755

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 88803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	35	U	3470	3170		ug/Kg	☼	91	57 - 94	4	30
Acenaphthylene	35	U	3470	3030		ug/Kg	☼	87	57 - 97	6	30
Anthracene	35	U	3470	2490		ug/Kg	☼	72	58 - 99	10	30
Benzo[a]anthracene	35	U	3470	2750		ug/Kg	☼	79	68 - 114	10	30
Benzo[b]fluoranthene	35	U *	3470	29700	E F *	ug/Kg	☼	856	63 - 107	1	30
Benzo[k]fluoranthene	35	U *	3470	25600	E F *	ug/Kg	☼	739	65 - 108	10	30
Benzo[g,h,i]perylene	35	U *	3470	13600	E F *	ug/Kg	☼	392	54 - 127	9	30
Benzo[a]pyrene	35	U *	3470	5200	F *	ug/Kg	☼	150	61 - 102	5	30
Chrysene	35	U	3470	3310		ug/Kg	☼	95	61 - 100	1	30
Dibenz(a,h)anthracene	35	U *	3470	21900	E F *	ug/Kg	☼	632	59 - 118	12	30
Fluoranthene	35	U	3470	3010		ug/Kg	☼	87	58 - 103	1	30

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

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 89755

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 88803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluorene	35	U	3470	3110		ug/Kg	☼	90	58 - 97	0	30
Indeno[1,2,3-cd]pyrene	35	U *	3470	18500	E F *	ug/Kg	☼	535	56 - 123	11	30
Naphthalene	35	U	3470	2700		ug/Kg	☼	78	52 - 86	13	30
Phenanthrene	35	U	3470	3290		ug/Kg	☼	95	60 - 98	1	30
Pyrene	35	U *	3470	3400		ug/Kg	☼	98	53 - 106	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*80*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*86*		*46 - 111*
Nitrobenzene-d5 (Surr)	*81*		*55 - 98*
Phenol-d5 (Surr)	*78*		*54 - 101*
Terphenyl-d14 (Surr)	*73*		*58 - 123*
2-Fluorobiphenyl (Surr)	*95*		*56 - 97*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	11.0	J	200	1.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-2	7.99	J	200	1.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-3	7.79	J	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-4	64	U	200	64	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-5	40	U	200	40	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-6	41	U	200	41	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-7	38	U	200	38	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-8	40	U	200	40	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-9	43	U	200	43	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-10	44	U	200	44	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-11	42	U	200	42	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-12/13	42	U	400	42	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-14	35	U	200	35	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-15	46	U	200	46	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-16	6.7	U	200	6.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-17	4.7	U	200	4.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-18/30	8.03	J q	400	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-19	4.8	U	200	4.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-20/28	13.5	J q	400	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-21/33	9.26	J q	400	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-22	6.38	J q	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-23	2.3	U	200	2.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-24	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-25	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-26/29	2.4	U	400	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-27	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-31	13.6	J q	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-32	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-34	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-35	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-36	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-37	6.98	J q	200	3.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-38	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-39	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-40/71	6.48	J q	400	2.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-41	3.1	U	200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-42	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-43	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-44/47/65	19.1	J	600	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-45	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-46	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-48	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-49/69	7.31	J	400	2.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-50/53	2.2	U	400	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-51	2.2	U	200	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-52	19.3	J	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-54	2.1	U	200	2.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-55	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-56	8.01	J q	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-57	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-58	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-59/62/75	1.7	U	600	1.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-60	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-61/70/74/76	22.2	J	800	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-63	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-64	5.19	J q	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-66	9.04	J q	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-67	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-68	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-72	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-73	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-77	4.4	U	20	4.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-78	3.0	U	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-79	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-80	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-81	4.1	U	20	4.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-82	4.6	U	200	4.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-83	5.0	U	200	5.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-84	4.1	U	200	4.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-85/116/117	3.1	U	600	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-86/87/97/108/119/125	3.1	U	1200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-88/91	3.5	U	400	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-89	3.9	U	200	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-90/101/113	8.22	J	600	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-92	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-93/100	3.5	U	400	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-94	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-95	6.54	J q	200	3.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-96	1.7	U	200	1.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-98/102	3.3	U	400	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-99	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-103	3.2	U	200	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-104	1.5	U	200	1.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-105	6.51	J q	20	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-106	3.1	U	200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-107/124	2.9	U	400	2.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-109	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-110/115	7.16	J q	400	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-111	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-112	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-114	3.3	U	20	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-115	7.16	J q	400	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-118	8.60	J	20	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-120	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-121	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-122	3.2	U	200	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-123	3.2	U	20	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-126	4.4	U	20	4.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-127	3.1	U	200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-128/166	3.8	U	400	3.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-129/138/163	5.66	J q	600	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-130	5.0	U	200	5.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-131	4.8	U	200	4.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-132	4.5	U	200	4.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-133	4.5	U	200	4.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-134/143	4.5	U	400	4.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-135/151	4.0	U	400	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-136	2.9	U	200	2.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-137	4.0	U	200	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-139/140	3.8	U	400	3.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-141	4.2	U	200	4.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-142	4.4	U	200	4.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-144	4.0	U	200	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-145	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-146	4.2	U	200	4.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-147/149	6.50	J q	400	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-148	3.9	U	200	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-150	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-152	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-153/168	5.81	J q	400	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-154	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-155	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-156/157	3.6	U	40	3.6	pg/L		12/12/13 14:53	12/19/13 18:45	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-158	3.0	U	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-159	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-160	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-161	3.0	U	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-162	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-164	3.3	U	200	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-165	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-167	2.7	U	20	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-169	3.9	U	20	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-170	2.3	U	200	2.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-171/173	2.1	U	400	2.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-172	2.2	U	200	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-174	3.1	U	200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-175	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-176	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-177	2.2	U	200	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-178	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-179	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-180/193	1.8	U	400	1.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-181	1.8	U	200	1.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-182	3.3	U	200	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-183	1.6	U	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-184	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-185	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-186	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-187	3.4	U	200	3.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-188	2.3	U	200	2.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-189	5.0	U	20	5.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-190	1.6	U	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-191	1.6	U	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-192	1.6	U	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-194	4.0	U	200	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-195	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-196	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-197	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-198/199	2.9	U	400	2.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-200	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-201	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-202	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-203	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-204	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-205	3.3	U	200	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-206	3.9	U	200	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-207	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-208	3.2	U	200	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-209	2.9	U	200	2.9	pg/L		12/12/13 14:53	12/19/13 18:45	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-4L	69		5 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-15L	74		5 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-123L	73		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-114L	73		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-3L	60		5 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-118L	74		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-126L	69		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-202L	107		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-169L	70		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-206L	95		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-37L	65		5 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-19L	90		5 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-188L	102		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-54L	79		5 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-156L/157L	73		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-167L	75		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-209L	95		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-189L	81		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-105L	73		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-208L	100		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-1L	53		5 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-104L	71		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-81L	64		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-77L	64		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-205L	85		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-155L	73		10 - 145	12/12/13 14:53	12/19/13 18:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	77		5 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-111L	89		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-178L	107		10 - 145	12/12/13 14:53	12/19/13 18:45	1

Lab Sample ID: LCS 320-31731/2-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	2000	2120		pg/L		106	60 - 135
PCB-3	2000	2100		pg/L		105	60 - 135
PCB-4	2000	1970		pg/L		99	60 - 135
PCB-15	2000	2040		pg/L		102	60 - 135
PCB-19	2000	1810		pg/L		91	60 - 135
PCB-37	2000	2030		pg/L		102	60 - 135
PCB-54	2000	1780		pg/L		89	60 - 135
PCB-77	2000	1980		pg/L		99	60 - 135
PCB-81	2000	2060		pg/L		103	60 - 135
PCB-104	2000	2110		pg/L		105	60 - 135
PCB-105	2000	2010		pg/L		100	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-31731/2-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31731

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-114			2000	1940		pg/L		97	60 - 135		
PCB-118			2000	2010		pg/L		100	60 - 135		
PCB-123			2000	1940		pg/L		97	60 - 135		
PCB-126			2000	1930		pg/L		97	60 - 135		
PCB-155			2000	2130		pg/L		106	60 - 135		
PCB-156/157			4000	4050		pg/L		101	60 - 135		
PCB-167			2000	2000		pg/L		100	60 - 135		
PCB-169			2000	2020	G	pg/L		101	60 - 135		
PCB-188			2000	2050		pg/L		103	60 - 135		
PCB-189			2000	2000		pg/L		100	60 - 135		
PCB-202			2000	2060		pg/L		103	60 - 135		
PCB-205			2000	1990		pg/L		99	60 - 135		
PCB-206			2000	1990		pg/L		100	60 - 135		
PCB-208			2000	1940		pg/L		97	60 - 135		
PCB-209			2000	2060		pg/L		103	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*58*		*15 - 145*
PCB-15L	*66*		*15 - 145*
PCB-123L	*76*		*40 - 145*
PCB-114L	*76*		*40 - 145*
PCB-3L	*51*		*15 - 145*
PCB-118L	*77*		*40 - 145*
PCB-126L	*75*		*40 - 145*
PCB-202L	*99*		*40 - 145*
PCB-169L	*75*		*40 - 145*
PCB-206L	*95*		*40 - 145*
PCB-37L	*63*		*15 - 145*
PCB-19L	*73*		*15 - 145*
PCB-188L	*95*		*40 - 145*
PCB-54L	*71*		*15 - 145*
PCB-156L/157L	*74*		*40 - 145*
PCB-167L	*74*		*40 - 145*
PCB-209L	*96*		*40 - 145*
PCB-189L	*79*		*40 - 145*
PCB-105L	*76*		*40 - 145*
PCB-208L	*100*		*40 - 145*
PCB-1L	*43*		*15 - 145*
PCB-104L	*69*		*40 - 145*
PCB-81L	*69*		*40 - 145*
PCB-77L	*71*		*40 - 145*
PCB-205L	*87*		*40 - 145*
PCB-155L	*73*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*72*		*5 - 145*
PCB-111L	*88*		*10 - 145*
PCB-178L	*102*		*10 - 145*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-31731/3-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31731

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1			2000	2110		pg/L		106	60 - 135	0	50
PCB-3			2000	2160		pg/L		108	60 - 135	3	50
PCB-4			2000	1980		pg/L		99	60 - 135	0	50
PCB-15			2000	1970		pg/L		98	60 - 135	3	50
PCB-19			2000	1840		pg/L		92	60 - 135	2	50
PCB-37			2000	2010		pg/L		100	60 - 135	1	50
PCB-54			2000	1810		pg/L		91	60 - 135	2	50
PCB-77			2000	2050		pg/L		102	60 - 135	3	50
PCB-81			2000	2050		pg/L		103	60 - 135	0	50
PCB-104			2000	2100		pg/L		105	60 - 135	1	50
PCB-105			2000	2000		pg/L		100	60 - 135	0	50
PCB-114			2000	1940		pg/L		97	60 - 135	0	50
PCB-118			2000	2070		pg/L		103	60 - 135	3	50
PCB-123			2000	1960		pg/L		98	60 - 135	1	50
PCB-126			2000	1900		pg/L		95	60 - 135	2	50
PCB-155			2000	2110		pg/L		106	60 - 135	1	50
PCB-156/157			4000	4100		pg/L		102	60 - 135	1	50
PCB-167			2000	2010		pg/L		100	60 - 135	0	50
PCB-169			2000	2080	G	pg/L		104	60 - 135	3	50
PCB-188			2000	2060		pg/L		103	60 - 135	0	50
PCB-189			2000	2010		pg/L		101	60 - 135	1	50
PCB-202			2000	2080		pg/L		104	60 - 135	1	50
PCB-205			2000	2000		pg/L		100	60 - 135	0	50
PCB-206			2000	2010		pg/L		100	60 - 135	1	50
PCB-208			2000	1980		pg/L		99	60 - 135	2	50
PCB-209			2000	2100		pg/L		105	60 - 135	2	50

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
PCB-4L	*68*		*15 - 145*
PCB-15L	*74*		*15 - 145*
PCB-123L	*76*		*40 - 145*
PCB-114L	*76*		*40 - 145*
PCB-3L	*57*		*15 - 145*
PCB-118L	*76*		*40 - 145*
PCB-126L	*75*		*40 - 145*
PCB-202L	*99*		*40 - 145*
PCB-169L	*71*		*40 - 145*
PCB-206L	*91*		*40 - 145*
PCB-37L	*67*		*15 - 145*
PCB-19L	*82*		*15 - 145*
PCB-188L	*97*		*40 - 145*
PCB-54L	*79*		*15 - 145*
PCB-156L/157L	*72*		*40 - 145*
PCB-167L	*72*		*40 - 145*
PCB-209L	*91*		*40 - 145*
PCB-189L	*76*		*40 - 145*
PCB-105L	*75*		*40 - 145*
PCB-208L	*95*		*40 - 145*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-31731/3-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31731

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
PCB-1L	*51*		*15 - 145*
PCB-104L	*73*		*40 - 145*
PCB-81L	*68*		*40 - 145*
PCB-77L	*69*		*40 - 145*
PCB-205L	*84*		*40 - 145*
PCB-155L	*75*		*40 - 145*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
PCB-28L	*76*		*5 - 145*
PCB-111L	*87*		*10 - 145*
PCB-178L	*102*		*10 - 145*

Lab Sample ID: MB 320-32172/1-A
Matrix: Solid
Analysis Batch: 33806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32172

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	1.52	J	20	0.10	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-2	0.451	J	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-3	0.761	J	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-4	3.7	U	20	3.7	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-5	1.9	U	20	1.9	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-6	1.9	U	20	1.9	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-7	1.8	U	20	1.8	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-8	1.9	U	20	1.9	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-9	2.0	U	20	2.0	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-10	2.4	U	20	2.4	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-11	2.68	J	20	2.0	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-12/13	2.0	U	40	2.0	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-14	1.7	U	20	1.7	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-15	2.1	U	20	2.1	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-16	0.30	U	20	0.30	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-17	0.21	U	20	0.21	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-18/30	0.361	J q	40	0.18	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-19	0.24	U	20	0.24	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-20/28	0.514	J q	40	0.13	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-21/33	0.279	J	40	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-22	0.14	U	20	0.14	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-23	0.12	U	20	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-24	0.16	U	20	0.16	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-25	0.12	U	20	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-26/29	0.12	U	40	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-27	0.16	U	20	0.16	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-31	0.371	J q	20	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-32	0.12	U	20	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-34	0.12	U	20	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-35	0.14	U	20	0.14	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-36	0.12	U	20	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32172/1-A
Matrix: Solid
Analysis Batch: 33806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32172

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-37	0.17	U	20	0.17	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-38	0.13	U	20	0.13	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-39	0.12	U	20	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-40/71	0.221	J	40	0.089	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-41	0.12	U	20	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-42	0.099	U	20	0.099	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-43	0.10	U	20	0.10	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-44/47/65	0.863	J q	60	0.085	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-45	0.10	U	20	0.10	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-46	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-48	0.091	U	20	0.091	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-49/69	0.254	J q	40	0.075	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-50/53	0.084	U	40	0.084	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-51	0.172	J q	20	0.084	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-52	0.688	J	20	0.093	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-54	0.083	U	20	0.083	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-55	0.098	U	20	0.098	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-56	0.143	J q	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-57	0.097	U	20	0.097	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-58	0.097	U	20	0.097	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-59/62/75	0.066	U	60	0.066	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-60	0.10	U	20	0.10	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-61/70/74/76	0.520	J q	80	0.095	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-63	0.091	U	20	0.091	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-64	0.163	J q	20	0.062	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-66	0.227	J q	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-67	0.090	U	20	0.090	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-68	0.087	U	20	0.087	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-72	0.094	U	20	0.094	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-73	0.070	U	20	0.070	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-77	0.14	U	2.0	0.14	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-78	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-79	0.095	U	20	0.095	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-80	0.091	U	20	0.091	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-81	0.14	U	2.0	0.14	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-82	0.16	U	20	0.16	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-83	0.18	U	20	0.18	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-84	0.15	U	20	0.15	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-85/116/117	0.11	U	60	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-86/87/97/108/119/125	0.11	U	120	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-88/91	0.12	U	40	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-89	0.14	U	20	0.14	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-90/101/113	0.320	J q	60	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-92	0.13	U	20	0.13	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-93/100	0.13	U	40	0.13	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-94	0.13	U	20	0.13	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-95	0.351	J q	20	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-96	0.056	U	20	0.056	pg/g		12/18/13 16:10	01/13/14 11:58	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32172/1-A
Matrix: Solid
Analysis Batch: 33806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32172

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-98/102	0.12	U	40	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-99	0.13	U	20	0.13	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-103	0.12	U	20	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-104	0.052	U	20	0.052	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-105	0.12	U	2.0	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-106	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-107/124	0.10	U	40	0.10	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-109	0.096	U	20	0.096	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-110/115	0.423	J	40	0.10	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-111	0.092	U	20	0.092	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-112	0.088	U	20	0.088	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-114	0.12	U	2.0	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-115	0.423	J	40	0.10	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-118	0.302	J q	2.0	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-120	0.097	U	20	0.097	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-121	0.091	U	20	0.091	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-122	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-123	0.11	U	2.0	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-126	0.14	U	2.0	0.14	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-127	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-128/166	0.11	U	40	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-129/138/163	0.302	J q	60	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-130	0.15	U	20	0.15	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-131	0.14	U	20	0.14	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-132	0.13	U	20	0.13	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-133	0.13	U	20	0.13	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-134/143	0.13	U	40	0.13	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-135/151	0.12	U	40	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-136	0.084	U	20	0.084	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-137	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-139/140	0.11	U	40	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-141	0.12	U	20	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-142	0.13	U	20	0.13	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-144	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-145	0.082	U	20	0.082	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-146	0.12	U	20	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-147/149	0.263	J	40	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-148	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-150	0.076	U	20	0.076	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-152	0.078	U	20	0.078	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-153/168	0.194	J q	40	0.095	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-154	0.10	U	20	0.10	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-155	0.084	U	20	0.084	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-156/157	0.095	U	4.0	0.095	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-158	0.087	U	20	0.087	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-159	0.078	U	20	0.078	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-160	0.10	U	20	0.10	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-161	0.087	U	20	0.087	pg/g		12/18/13 16:10	01/13/14 11:58	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32172/1-A
Matrix: Solid
Analysis Batch: 33806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32172

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-162	0.076	U	20	0.076	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-164	0.097	U	20	0.097	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-165	0.10	U	20	0.10	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-167	0.075	U	2.0	0.075	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-169	0.091	U	2.0	0.091	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-170	0.12	U	20	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-171/173	0.11	U	40	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-172	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-174	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-175	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-176	0.072	U	20	0.072	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-177	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-178	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-179	0.079	U	20	0.079	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-180/193	0.177	J q	40	0.088	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-181	0.090	U	20	0.090	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-182	0.10	U	20	0.10	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-183	0.081	U	20	0.081	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-184	0.081	U	20	0.081	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-185	0.098	U	20	0.098	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-186	0.076	U	20	0.076	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-187	0.10	U	20	0.10	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-188	0.080	U	20	0.080	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-189	0.12	U	2.0	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-190	0.082	U	20	0.082	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-191	0.079	U	20	0.079	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-192	0.082	U	20	0.082	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-194	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-195	0.097	U	20	0.097	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-196	0.11	U	20	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-197	0.071	U	20	0.071	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-198/199	0.11	U	40	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-200	0.072	U	20	0.072	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-201	0.071	U	20	0.071	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-202	0.087	U	20	0.087	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-203	0.099	U	20	0.099	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-204	0.074	U	20	0.074	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-205	0.072	U	20	0.072	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-206	0.092	U	20	0.092	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-207	0.068	U	20	0.068	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-208	0.082	U	20	0.082	pg/g		12/18/13 16:10	01/13/14 11:58	1
PCB-209	0.505	J q	20	0.078	pg/g		12/18/13 16:10	01/13/14 11:58	1
Total Monochlorobiphenyls	2.73	J	200	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
Total Dichlorobiphenyls	2.68	J	200	2.1	pg/g		12/18/13 16:10	01/13/14 11:58	1
Total Trichlorobiphenyls	1.52	J q	200	0.15	pg/g		12/18/13 16:10	01/13/14 11:58	1
Total Tetrachlorobiphenyls	3.25	J q	200	0.095	pg/g		12/18/13 16:10	01/13/14 11:58	1
Total Pentachlorobiphenyls	1.40	J q	200	0.12	pg/g		12/18/13 16:10	01/13/14 11:58	1
Total Hexachlorobiphenyls	0.760	J q	200	0.10	pg/g		12/18/13 16:10	01/13/14 11:58	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32172/1-A
Matrix: Solid
Analysis Batch: 33806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32172

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Heptachlorobiphenyls	0.177	J q	200	0.095	pg/g		12/18/13 16:10	01/13/14 11:58	1
Total Octachlorobiphenyls	0.11	U	200	0.11	pg/g		12/18/13 16:10	01/13/14 11:58	1
Total Nonachlorobiphenyls	0.092	U	200	0.092	pg/g		12/18/13 16:10	01/13/14 11:58	1
Polychlorinated biphenyls, Total	13.0	J q	200	0.31	pg/g		12/18/13 16:10	01/13/14 11:58	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*52*		*5 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-15L	*57*		*5 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-123L	*69*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-114L	*68*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-3L	*52*		*5 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-118L	*70*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-126L	*68*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-202L	*76*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-169L	*82*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-206L	*87*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-37L	*59*		*5 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-19L	*59*		*5 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-188L	*70*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-54L	*62*		*5 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-156L/157L	*77*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-167L	*74*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-209L	*78*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-189L	*78*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-105L	*70*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-208L	*85*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-1L	*41*		*5 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-104L	*61*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-81L	*62*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-77L	*63*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-205L	*88*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-155L	*61*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*53*		*5 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-111L	*61*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*
PCB-178L	*71*		*10 - 145*	*12/18/13 16:10*	*01/13/14 11:58*	*1*

Lab Sample ID: LCS 320-32172/2-A
Matrix: Solid
Analysis Batch: 33806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32172

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	209		pg/g		104	60 - 135
PCB-3	200	211		pg/g		105	60 - 135
PCB-4	200	208		pg/g		104	60 - 135
PCB-15	200	204		pg/g		102	60 - 135
PCB-19	200	208		pg/g		104	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32172/2-A
Matrix: Solid
Analysis Batch: 33806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32172

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-37			200	212		pg/g		106	60 - 135		
PCB-54			200	207		pg/g		104	60 - 135		
PCB-77			200	204		pg/g		102	60 - 135		
PCB-81			200	206		pg/g		103	60 - 135		
PCB-104			200	203		pg/g		101	60 - 135		
PCB-105			200	212		pg/g		106	60 - 135		
PCB-114			200	207		pg/g		103	60 - 135		
PCB-118			200	217		pg/g		108	60 - 135		
PCB-123			200	206		pg/g		103	60 - 135		
PCB-126			200	208		pg/g		104	60 - 135		
PCB-155			200	215		pg/g		107	60 - 135		
PCB-156/157			400	413		pg/g		103	60 - 135		
PCB-167			200	206		pg/g		103	60 - 135		
PCB-169			200	207		pg/g		103	60 - 135		
PCB-188			200	208		pg/g		104	60 - 135		
PCB-189			200	218		pg/g		109	60 - 135		
PCB-202			200	219		pg/g		109	60 - 135		
PCB-205			200	206		pg/g		103	60 - 135		
PCB-206			200	208		pg/g		104	60 - 135		
PCB-208			200	207		pg/g		104	60 - 135		
PCB-209			200	205		pg/g		103	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*50*		*15 - 145*
PCB-15L	*53*		*15 - 145*
PCB-123L	*62*		*40 - 145*
PCB-114L	*62*		*40 - 145*
PCB-3L	*47*		*15 - 145*
PCB-118L	*62*		*40 - 145*
PCB-126L	*67*		*40 - 145*
PCB-202L	*73*		*40 - 145*
PCB-169L	*79*		*40 - 145*
PCB-206L	*85*		*40 - 145*
PCB-37L	*53*		*15 - 145*
PCB-19L	*55*		*15 - 145*
PCB-188L	*66*		*40 - 145*
PCB-54L	*56*		*15 - 145*
PCB-156L/157L	*71*		*40 - 145*
PCB-167L	*68*		*40 - 145*
PCB-209L	*76*		*40 - 145*
PCB-189L	*78*		*40 - 145*
PCB-105L	*65*		*40 - 145*
PCB-208L	*84*		*40 - 145*
PCB-1L	*41*		*15 - 145*
PCB-104L	*55*		*40 - 145*
PCB-81L	*57*		*40 - 145*
PCB-77L	*58*		*40 - 145*
PCB-205L	*86*		*40 - 145*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32172/2-A
Matrix: Solid
Analysis Batch: 33806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32172

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-155L	53		40 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
PCB-28L	47		5 - 145
PCB-111L	56		10 - 145
PCB-178L	63		10 - 145

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	6.13	J	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-2	1.59	J	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-3	1.32	J	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-4	8.4	U	20	8.4	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-5	3.3	U	20	3.3	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-6	3.4	U	20	3.4	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-7	3.1	U	20	3.1	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-8	3.3	U	20	3.3	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-9	3.5	U	20	3.5	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-10	5.2	U	20	5.2	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-11	3.5	U	20	3.5	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-12/13	3.5	U	40	3.5	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-14	2.9	U	20	2.9	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-15	3.5	U	20	3.5	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-16	0.70	U	20	0.70	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-17	0.49	U	20	0.49	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-18/30	0.42	U	40	0.42	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-19	0.61	U	20	0.61	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-20/28	0.614	J q	40	0.32	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-21/33	0.379	J q	40	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-22	0.34	U	20	0.34	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-23	0.29	U	20	0.29	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-24	0.36	U	20	0.36	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-25	0.30	U	20	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-26/29	0.30	U	40	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-27	0.37	U	20	0.37	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-31	0.744	J	20	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-32	0.29	U	20	0.29	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-34	0.30	U	20	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-35	0.35	U	20	0.35	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-36	0.31	U	20	0.31	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-37	0.38	U	20	0.38	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-38	0.33	U	20	0.33	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-39	0.31	U	20	0.31	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-40/71	0.24	U	40	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-41	0.31	U	20	0.31	pg/g		12/19/13 17:37	01/20/14 16:14	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-42	0.26	U	20	0.26	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-43	0.27	U	20	0.27	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-44/47/65	1.38	J	60	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-45	0.26	U	20	0.26	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-46	0.28	U	20	0.28	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-48	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-49/69	0.306	J	40	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-50/53	0.22	U	40	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-51	0.22	U	20	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-52	0.930	J q	20	0.25	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-54	0.20	U	20	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-55	0.25	U	20	0.25	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-56	0.27	U	20	0.27	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-57	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-58	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-59/62/75	0.17	U	60	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-60	0.26	U	20	0.26	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-61/70/74/76	0.967	J	80	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-63	0.23	U	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-64	0.244	J	20	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-66	0.27	U	20	0.27	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-67	0.23	U	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-68	0.22	U	20	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-72	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-73	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-77	0.31	U	2.0	0.31	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-78	0.28	U	20	0.28	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-79	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-80	0.23	U	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-81	0.29	U	2.0	0.29	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-82	0.26	U	20	0.26	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-83	0.28	U	20	0.28	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-84	0.23	U	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-85/116/117	0.17	U	60	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-86/87/97/108/119/125	0.269	J q	120	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-88/91	0.20	U	40	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-89	0.22	U	20	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-90/101/113	0.577	J	60	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-92	0.21	U	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-93/100	0.20	U	40	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-94	0.21	U	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-95	0.421	J	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-96	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-98/102	0.18	U	40	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-99	0.21	U	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-103	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-104	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-105	0.19	U	2.0	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-106	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-107/124	0.16	U	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-109	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-110/115	0.588	J q	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-111	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-112	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-114	0.18	U	2.0	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-115	0.588	J q	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-118	0.427	J q	2.0	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-120	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-121	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-122	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-123	0.17	U	2.0	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-126	0.22	U	2.0	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-127	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-128/166	0.16	U	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-129/138/163	0.454	J q	60	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-130	0.22	U	20	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-131	0.21	U	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-132	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-133	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-134/143	0.20	U	40	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-135/151	0.17	U	40	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-136	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-137	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-139/140	0.16	U	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-141	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-142	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-144	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-145	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-146	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-147/149	0.285	J q	40	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-148	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-150	0.11	U	20	0.11	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-152	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-153/168	0.283	J q	40	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-154	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-155	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-156/157	0.22	U	4.0	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-158	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-159	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-160	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-161	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-162	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-164	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-165	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-167	0.18	U	2.0	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-169	0.20	U	2.0	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-170	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-171/173	0.16	U	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-172	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-174	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-175	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-176	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-177	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-178	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-179	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-180/193	0.240	J	40	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-181	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-182	0.16	U	20	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-183	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-184	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-185	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-186	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-187	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-188	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-189	0.19	U	2.0	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-190	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-191	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-192	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-194	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-195	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-196	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-197	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-198/199	0.19	U	40	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-200	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-201	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-202	0.16	U	20	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-203	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-204	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-205	0.11	U	20	0.11	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-206	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-207	0.11	U	20	0.11	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-208	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-209	0.959	J	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Monochlorobiphenyls	9.04	J	200	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Dichlorobiphenyls	8.4	U	200	8.4	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Trichlorobiphenyls	1.74	J q	200	0.37	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Tetrachlorobiphenyls	3.83	J q	200	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Pentachlorobiphenyls	2.28	J q	200	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Hexachlorobiphenyls	1.02	J q	200	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Heptachlorobiphenyls	0.240	J	200	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Octachlorobiphenyls	0.19	U	200	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Nonachlorobiphenyls	0.15	U	200	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
Polychlorinated biphenyls, Total	19.1	J q	200	1.0	pg/g		12/19/13 17:37	01/20/14 16:14	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-4L	44		5 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-15L	56		5 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-123L	72		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-114L	71		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-3L	45		5 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-118L	73		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-126L	80		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-202L	67		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-169L	97		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-206L	87		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-37L	59		5 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-19L	56		5 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-188L	50		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-54L	44		5 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-156L/157L	85		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-167L	82		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-209L	85		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-189L	76		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-105L	73		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-208L	84		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-1L	40		5 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-104L	52		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-81L	72		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-77L	71		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-205L	86		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-155L	51		10 - 145	12/19/13 17:37	01/20/14 16:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	50		5 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-111L	71		10 - 145	12/19/13 17:37	01/20/14 16:14	1
PCB-178L	77		10 - 145	12/19/13 17:37	01/20/14 16:14	1

Lab Sample ID: LCS 320-32277/2-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	218		pg/g		109	60 - 135
PCB-3	200	211		pg/g		106	60 - 135
PCB-4	200	208		pg/g		104	60 - 135
PCB-15	200	223		pg/g		112	60 - 135
PCB-19	200	203		pg/g		101	60 - 135
PCB-37	200	208		pg/g		104	60 - 135
PCB-54	200	199		pg/g		100	60 - 135
PCB-77	200	218		pg/g		109	60 - 135
PCB-81	200	211		pg/g		105	60 - 135
PCB-104	200	202		pg/g		101	60 - 135
PCB-105	200	212		pg/g		106	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32277/2-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32277

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-114			200	214		pg/g		107	60 - 135		
PCB-118			200	221		pg/g		110	60 - 135		
PCB-123			200	207		pg/g		104	60 - 135		
PCB-126			200	212		pg/g		106	60 - 135		
PCB-155			200	217		pg/g		108	60 - 135		
PCB-156/157			400	424		pg/g		106	60 - 135		
PCB-167			200	208	G	pg/g		104	60 - 135		
PCB-169			200	209	G	pg/g		104	60 - 135		
PCB-188			200	215		pg/g		107	60 - 135		
PCB-189			200	218		pg/g		109	60 - 135		
PCB-202			200	219		pg/g		109	60 - 135		
PCB-205			200	201		pg/g		100	60 - 135		
PCB-206			200	208		pg/g		104	60 - 135		
PCB-208			200	207		pg/g		103	60 - 135		
PCB-209			200	205		pg/g		103	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*39*		*15 - 145*
PCB-15L	*51*		*15 - 145*
PCB-123L	*82*		*40 - 145*
PCB-114L	*83*		*40 - 145*
PCB-3L	*38*		*15 - 145*
PCB-118L	*84*		*40 - 145*
PCB-126L	*90*		*40 - 145*
PCB-202L	*67*		*40 - 145*
PCB-169L	*86*		*40 - 145*
PCB-206L	*85*		*40 - 145*
PCB-37L	*54*		*15 - 145*
PCB-19L	*45*		*15 - 145*
PCB-188L	*55*		*40 - 145*
PCB-54L	*56*		*15 - 145*
PCB-156L/157L	*77*		*40 - 145*
PCB-167L	*76*		*40 - 145*
PCB-209L	*83*		*40 - 145*
PCB-189L	*74*		*40 - 145*
PCB-105L	*85*		*40 - 145*
PCB-208L	*79*		*40 - 145*
PCB-1L	*30*		*15 - 145*
PCB-104L	*51*		*40 - 145*
PCB-81L	*70*		*40 - 145*
PCB-77L	*70*		*40 - 145*
PCB-205L	*82*		*40 - 145*
PCB-155L	*50*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*63*		*5 - 145*
PCB-111L	*79*		*10 - 145*
PCB-178L	*76*		*10 - 145*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	3.74	J	20	0.32	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-2	0.30	U	20	0.30	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-3	0.665	J q	20	0.28	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-4	7.2	U	20	7.2	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-5	4.7	U	20	4.7	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-6	4.8	U	20	4.8	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-7	4.4	U	20	4.4	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-8	4.6	U	20	4.6	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-9	5.0	U	20	5.0	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-10	3.7	U	20	3.7	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-11	5.35	J	20	4.9	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-12/13	5.0	U	40	5.0	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-14	4.1	U	20	4.1	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-15	4.5	U	20	4.5	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-16	1.9	U	20	1.9	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-17	1.4	U	20	1.4	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-18/30	1.2	U	40	1.2	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-19	1.7	U	20	1.7	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-20/28	0.951	J q	40	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-21/33	0.373	J q	40	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-22	0.25	U	20	0.25	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-23	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-24	1.0	U	20	1.0	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-25	0.22	U	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-26/29	0.22	U	40	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-27	1.0	U	20	1.0	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-31	0.898	J	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-32	0.79	U	20	0.79	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-34	0.22	U	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-35	0.26	U	20	0.26	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-36	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-37	0.27	U	20	0.27	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-38	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-39	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-40/71	0.21	U	40	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-41	0.27	U	20	0.27	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-42	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-43	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-44/47/65	1.74	J	60	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-45	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-46	0.25	U	20	0.25	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-48	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-49/69	0.252	J q	40	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-50/53	0.19	U	40	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-51	0.19	U	20	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-52	1.16	J	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-54	0.53	U	20	0.53	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-55	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-56	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-57	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-58	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-59/62/75	0.15	U	60	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-60	0.22	U	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-61/70/74/76	0.915	J	80	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-63	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-64	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-66	0.572	J	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-67	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-68	0.19	U	20	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-72	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-73	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-77	0.24	U	2.0	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-78	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-79	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-80	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-81	0.23	U	2.0	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-82	0.29	U	20	0.29	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-83	0.32	U	20	0.32	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-84	0.27	U	20	0.27	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-85/116/117	0.20	U	60	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-86/87/97/108/119/125	0.20	U	120	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-88/91	0.22	U	40	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-89	0.25	U	20	0.25	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-90/101/113	0.605	J	60	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-92	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-93/100	0.23	U	40	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-94	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-95	0.517	J	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-96	0.090	U	20	0.090	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-98/102	0.21	U	40	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-99	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-103	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-104	0.11	U	20	0.11	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-105	0.21	U	2.0	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-106	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-107/124	0.19	U	40	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-109	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-110/115	0.719	J q	40	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-111	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-112	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-114	0.19	U	2.0	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-118	0.529	J q	2.0	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-120	0.18	U	20	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-121	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-122	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-123	0.19	U	2.0	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-126	0.23	U	2.0	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-127	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-128/166	0.13	U	40	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-129/138/163	0.523	J	60	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-130	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-131	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-132	0.183	J q	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-133	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-134/143	0.15	U	40	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-135/151	0.14	U	40	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-136	0.099	U	20	0.099	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-137	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-139/140	0.13	U	40	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-141	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-142	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-144	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-145	0.096	U	20	0.096	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-146	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-147/149	0.470	J	40	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-148	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-150	0.090	U	20	0.090	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-152	0.092	U	20	0.092	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-153/168	0.363	J q	40	0.11	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-154	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-155	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-156/157	0.16	U	4.0	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-158	0.10	U	20	0.10	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-159	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-160	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-161	0.10	U	20	0.10	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-162	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-164	0.11	U	20	0.11	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-165	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-167	0.13	U	2.0	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-169	0.16	U	2.0	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-170	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-171/173	0.16	U	40	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-172	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-174	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-175	0.18	U	20	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-176	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-177	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-178	0.19	U	20	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-179	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-180/193	0.249	J q	40	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-181	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-182	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-183	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-184	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-185	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-186	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-187	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-188	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-189	0.20	U	2.0	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-190	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-191	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-192	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-194	0.18	U	20	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-195	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-196	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-197	0.092	U	20	0.092	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-198/199	0.14	U	40	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-200	0.093	U	20	0.093	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-201	0.092	U	20	0.092	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-202	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-203	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-204	0.096	U	20	0.096	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-205	0.11	U	20	0.11	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-206	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-207	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-208	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-209	1.26	J q	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Monochlorobiphenyls	4.41	J q	200	0.30	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Dichlorobiphenyls	5.35	J	200	4.8	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Trichlorobiphenyls	2.22	J q	200	0.60	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Tetrachlorobiphenyls	4.64	J q	200	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Pentachlorobiphenyls	2.37	J q	200	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Hexachlorobiphenyls	1.54	J q	200	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Heptachlorobiphenyls	0.249	J q	200	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Octachlorobiphenyls	0.18	U	200	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Nonachlorobiphenyls	0.17	U	200	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
Polychlorinated biphenyls, Total	22.0	J q	200	0.69	pg/g		12/21/13 12:08	12/31/13 19:06	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*32*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-15L	*48*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-123L	*56*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-114L	*56*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-3L	*39*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-118L	*58*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-126L	*60*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-202L	*51*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-169L	*85*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-206L	*68*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-37L	*56*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-19L	*36*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-188L	39		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-54L	32		5 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-156L/157L	82		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-167L	78		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-209L	60		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-189L	71		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-105L	57		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-208L	67		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-1L	30		5 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-104L	36		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-81L	60		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-77L	61		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-205L	75		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-155L	48		10 - 145	12/21/13 12:08	12/31/13 19:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	55		5 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-111L	56		10 - 145	12/21/13 12:08	12/31/13 19:06	1
PCB-178L	56		10 - 145	12/21/13 12:08	12/31/13 19:06	1

Lab Sample ID: LCS 320-32403/2-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	204		pg/g		102	60 - 135
PCB-3	200	206		pg/g		103	60 - 135
PCB-4	200	219		pg/g		109	60 - 135
PCB-15	200	204		pg/g		102	60 - 135
PCB-19	200	221		pg/g		111	60 - 135
PCB-37	200	210		pg/g		105	60 - 135
PCB-54	200	241		pg/g		121	60 - 135
PCB-77	200	205		pg/g		103	60 - 135
PCB-81	200	209		pg/g		104	60 - 135
PCB-104	200	217		pg/g		109	60 - 135
PCB-105	200	215		pg/g		107	60 - 135
PCB-114	200	212		pg/g		106	60 - 135
PCB-118	200	219		pg/g		109	60 - 135
PCB-123	200	206		pg/g		103	60 - 135
PCB-126	200	211		pg/g		105	60 - 135
PCB-155	200	230		pg/g		115	60 - 135
PCB-156/157	400	416		pg/g		104	60 - 135
PCB-167	200	207		pg/g		104	60 - 135
PCB-169	200	216		pg/g		108	60 - 135
PCB-188	200	222		pg/g		111	60 - 135
PCB-189	200	209		pg/g		104	60 - 135
PCB-202	200	229		pg/g		114	60 - 135
PCB-205	200	202		pg/g		101	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32403/2-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32403

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-206			200	210		pg/g		105	60 - 135		
PCB-208			200	207		pg/g		104	60 - 135		
PCB-209			200	208		pg/g		104	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*35*		*15 - 145*
PCB-15L	*48*		*15 - 145*
PCB-123L	*60*		*40 - 145*
PCB-114L	*59*		*40 - 145*
PCB-3L	*40*		*15 - 145*
PCB-118L	*60*		*40 - 145*
PCB-126L	*61*		*40 - 145*
PCB-202L	*52*		*40 - 145*
PCB-169L	*87*		*40 - 145*
PCB-206L	*73*		*40 - 145*
PCB-37L	*56*		*15 - 145*
PCB-19L	*39*		*15 - 145*
PCB-188L	*42*		*40 - 145*
PCB-54L	*31*		*15 - 145*
PCB-156L/157L	*87*		*40 - 145*
PCB-167L	*81*		*40 - 145*
PCB-209L	*63*		*40 - 145*
PCB-189L	*77*		*40 - 145*
PCB-105L	*60*		*40 - 145*
PCB-208L	*73*		*40 - 145*
PCB-1L	*34*		*15 - 145*
PCB-104L	*38*	*	*40 - 145*
PCB-81L	*60*		*40 - 145*
PCB-77L	*61*		*40 - 145*
PCB-205L	*81*		*40 - 145*
PCB-155L	*49*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*51*		*5 - 145*
PCB-111L	*55*		*10 - 145*
PCB-178L	*56*		*10 - 145*

Lab Sample ID: 680-96439-2 MS
Matrix: Solid
Analysis Batch: 33200

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 32403

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1	9.8	J B	403	456		pg/g	☼	111	60 - 135		
PCB-3	17	J B	403	469		pg/g	☼	112	60 - 135		
PCB-4	9.0	U	403	428		pg/g	☼	106	60 - 135		
PCB-15	27	J	403	468		pg/g	☼	110	60 - 135		
PCB-19	1.2	J q	403	411		pg/g	☼	102	60 - 135		
PCB-37	28	J	403	490		pg/g	☼	115	60 - 135		

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 680-96439-2 MS
Matrix: Solid
Analysis Batch: 33200

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 32403

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-54	0.29	U	403	430		pg/g	☼	107	60 - 135
PCB-77	62	G	403	521	G	pg/g	☼	114	60 - 135
PCB-81	5.9	U G	403	427	G	pg/g	☼	106	60 - 135
PCB-104	0.40	J q	403	431		pg/g	☼	107	60 - 135
PCB-105	170	G	403	671	G	pg/g	☼	124	60 - 135
PCB-114	13	G	403	444	G	pg/g	☼	107	60 - 135
PCB-118	350	B G	403	933	F1 G	pg/g	☼	146	60 - 135
PCB-123	5.3	U G	403	454	G	pg/g	☼	113	60 - 135
PCB-126	12	G	403	443	G	pg/g	☼	107	60 - 135
PCB-155	2.3	U	403	435		pg/g	☼	108	60 - 135
PCB-156/157	78		806	976	G	pg/g	☼	111	60 - 135
PCB-167	25		403	463	G	pg/g	☼	109	60 - 135
PCB-169	3.0	U	403	448	G	pg/g	☼	111	60 - 135
PCB-188	3.6	J	403	450		pg/g	☼	111	60 - 135
PCB-189	10		403	468		pg/g	☼	114	60 - 135
PCB-202	73		403	553		pg/g	☼	119	60 - 135
PCB-205	20	J	403	485		pg/g	☼	115	60 - 135
PCB-206	540		403	1180	F1	pg/g	☼	158	60 - 135
PCB-208	280		403	801		pg/g	☼	130	60 - 135
PCB-209	69000	E B	403	87900	E 4	pg/g	☼	4583	60 - 135

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
PCB-4L	*40*		*5 - 145*
PCB-15L	*51*		*5 - 145*
PCB-123L	*69*		*10 - 145*
PCB-114L	*69*		*10 - 145*
PCB-202L	*72*		*10 - 145*
PCB-3L	*41*		*5 - 145*
PCB-118L	*68*		*10 - 145*
PCB-126L	*78*		*10 - 145*
PCB-206L	*81*		*10 - 145*
PCB-169L	*83*		*10 - 145*
PCB-37L	*53*		*5 - 145*
PCB-19L	*51*		*5 - 145*
PCB-188L	*61*		*10 - 145*
PCB-54L	*50*		*5 - 145*
PCB-156L/157L	*76*		*10 - 145*
PCB-167L	*72*		*10 - 145*
PCB-209L	*82*		*10 - 145*
PCB-189L	*71*		*10 - 145*
PCB-105L	*71*		*10 - 145*
PCB-208L	*79*		*10 - 145*
PCB-1L	*33*		*5 - 145*
PCB-104L	*50*		*10 - 145*
PCB-81L	*64*		*10 - 145*
PCB-77L	*66*		*10 - 145*
PCB-205L	*83*		*10 - 145*
PCB-155L	*51*		*10 - 145*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 680-96439-2 MS
Matrix: Solid
Analysis Batch: 33200

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 32403

Surrogate	MS %Recovery	MS Qualifier	Limits
PCB-28L	50		5 - 145
PCB-111L	69		10 - 145
PCB-178L	72		10 - 145

Lab Sample ID: 680-96439-2 MSD
Matrix: Solid
Analysis Batch: 33200

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 32403

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1	9.8	J B	404	421		pg/g	☼	102	60 - 135	8	50
PCB-3	17	J B	404	429		pg/g	☼	102	60 - 135	9	50
PCB-4	9.0	U	404	402		pg/g	☼	100	60 - 135	6	50
PCB-15	27	J	404	987	F1 F2	pg/g	☼	238	60 - 135	71	50
PCB-19	1.2	J q	404	391		pg/g	☼	97	60 - 135	5	50
PCB-37	28	J	404	758	F1	pg/g	☼	181	60 - 135	43	50
PCB-54	0.29	U	404	405		pg/g	☼	100	60 - 135	6	50
PCB-77	62	G	404	503	G	pg/g	☼	109	60 - 135	3	50
PCB-81	5.9	U G	404	410	G	pg/g	☼	101	60 - 135	4	50
PCB-104	0.40	J q	404	400		pg/g	☼	99	60 - 135	7	50
PCB-105	170	G	404	610	G	pg/g	☼	109	60 - 135	10	50
PCB-114	13	G	404	419	G	pg/g	☼	101	60 - 135	6	50
PCB-118	350	B G	404	802	G	pg/g	☼	113	60 - 135	15	50
PCB-123	5.3	U G	404	427	G	pg/g	☼	106	60 - 135	6	50
PCB-126	12	G	404	426	G	pg/g	☼	103	60 - 135	4	50
PCB-155	2.3	U	404	415		pg/g	☼	103	60 - 135	5	50
PCB-156/157	78		808	888		pg/g	☼	100	60 - 135	9	50
PCB-167	25		404	441	G	pg/g	☼	103	60 - 135	5	50
PCB-169	3.0	U	404	424	G	pg/g	☼	105	60 - 135	5	50
PCB-188	3.6	J	404	420		pg/g	☼	103	60 - 135	7	50
PCB-189	10		404	446		pg/g	☼	108	60 - 135	5	50
PCB-202	73		404	496		pg/g	☼	105	60 - 135	11	50
PCB-205	20	J	404	445		pg/g	☼	105	60 - 135	9	50
PCB-206	540		404	952		pg/g	☼	101	60 - 135	21	50
PCB-208	280		404	683		pg/g	☼	101	60 - 135	16	50
PCB-209	69000	E B	404	67800	E 4	pg/g	☼	-413	60 - 135	26	50

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
PCB-4L	44		5 - 145
PCB-15L	54		5 - 145
PCB-123L	79		10 - 145
PCB-114L	77		10 - 145
PCB-202L	79		10 - 145
PCB-3L	44		5 - 145
PCB-118L	78		10 - 145
PCB-126L	86		10 - 145
PCB-206L	86		10 - 145
PCB-169L	89		10 - 145
PCB-37L	60		5 - 145

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 680-96439-2 MSD
Matrix: Solid
Analysis Batch: 33200

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 32403

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
PCB-19L	52		5 - 145
PCB-188L	69		10 - 145
PCB-54L	53		5 - 145
PCB-156L/157L	83		10 - 145
PCB-167L	78		10 - 145
PCB-209L	87		10 - 145
PCB-189L	76		10 - 145
PCB-105L	78		10 - 145
PCB-208L	84		10 - 145
PCB-1L	37		5 - 145
PCB-104L	57		10 - 145
PCB-81L	71		10 - 145
PCB-77L	72		10 - 145
PCB-205L	90		10 - 145
PCB-155L	57		10 - 145

Surrogate	MSD %Recovery	MSD Qualifier	Limits
PCB-28L	50		5 - 145
PCB-111L	71		10 - 145
PCB-178L	73		10 - 145

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 34287

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1 - DL	19	J B	414	430	J	pg/g	☼	99	60 - 135
PCB-3 - DL	16	J B	414	457	J	pg/g	☼	107	60 - 135
PCB-4 - DL	100	U	414	502	J	pg/g	☼	121	60 - 135
PCB-15 - DL	89	U	414	494	J	pg/g	☼	119	60 - 135
PCB-19 - DL	23	U	414	413	J	pg/g	☼	100	60 - 135
PCB-37 - DL	56	J	414	527	J	pg/g	☼	114	60 - 135
PCB-54 - DL	7.2	U	414	345	J	pg/g	☼	84	60 - 135
PCB-77 - DL	240		414	608		pg/g	☼	89	60 - 135
PCB-81 - DL	12	U	414	411		pg/g	☼	99	60 - 135
PCB-104 - DL	4.1	U	414	408	J	pg/g	☼	99	60 - 135
PCB-105 - DL	1100		414	1740	F1	pg/g	☼	152	60 - 135
PCB-114 - DL	29	U	414	501		pg/g	☼	121	60 - 135
PCB-118 - DL	2100	B	414	2890	4	pg/g	☼	184	60 - 135
PCB-123 - DL	28	U	414	488		pg/g	☼	118	60 - 135
PCB-126 - DL	90		414	559		pg/g	☼	114	60 - 135
PCB-155 - DL	11	U	414	454	J	pg/g	☼	110	60 - 135
PCB-156/157 - DL	520		827	1480		pg/g	☼	116	60 - 135
PCB-167 - DL	190		414	624		pg/g	☼	106	60 - 135
PCB-169 - DL	11	U	414	448		pg/g	☼	108	60 - 135
PCB-188 - DL	8.8	J q	414	441	J	pg/g	☼	104	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 34287

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-189 - DL	31	J	414	486		pg/g	☼	110	60 - 135
PCB-202 - DL	39	J	414	516	J	pg/g	☼	115	60 - 135
PCB-205 - DL	30	J	414	463	J	pg/g	☼	105	60 - 135
PCB-206 - DL	250	J	414	705	J	pg/g	☼	110	60 - 135
PCB-208 - DL	200	J	414	663	J	pg/g	☼	111	60 - 135
PCB-209 - DL	2700	B	414	3190	4	pg/g	☼	116	60 - 135

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
PCB-4L - DL	*46*		*5 - 145*
PCB-15L - DL	*70*		*5 - 145*
PCB-123L - DL	*81*		*10 - 145*
PCB-114L - DL	*74*		*10 - 145*
PCB-202L - DL	*69*		*10 - 145*
PCB-3L - DL	*40*	*q*	*5 - 145*
PCB-118L - DL	*77*		*10 - 145*
PCB-126L - DL	*82*		*10 - 145*
PCB-206L - DL	*78*		*10 - 145*
PCB-169L - DL	*93*		*10 - 145*
PCB-37L - DL	*62*		*5 - 145*
PCB-19L - DL	*67*		*5 - 145*
PCB-188L - DL	*64*		*10 - 145*
PCB-54L - DL	*69*		*5 - 145*
PCB-156L/157L - DL	*81*		*10 - 145*
PCB-167L - DL	*86*		*10 - 145*
PCB-209L - DL	*76*		*10 - 145*
PCB-189L - DL	*72*		*10 - 145*
PCB-105L - DL	*80*		*10 - 145*
PCB-208L - DL	*77*		*10 - 145*
PCB-1L - DL	*40*		*5 - 145*
PCB-104L - DL	*66*		*10 - 145*
PCB-81L - DL	*72*	*q*	*10 - 145*
PCB-77L - DL	*77*	*q*	*10 - 145*
PCB-205L - DL	*79*		*10 - 145*
PCB-155L - DL	*61*		*10 - 145*

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
PCB-28L - DL	*64*		*5 - 145*
PCB-111L - DL	*79*		*10 - 145*
PCB-178L - DL	*86*		*10 - 145*

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 34287

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32277

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1 - DL	19	J B	417	460	J	pg/g	☼	106	60 - 135	7	50
PCB-3 - DL	16	J B	417	463	J	pg/g	☼	107	60 - 135	1	50
PCB-4 - DL	100	U	417	478	J	pg/g	☼	115	60 - 135	5	50

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 34287

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32277

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-15 - DL	89	U	417	452	J	pg/g	☼	108	60 - 135	9	50
PCB-19 - DL	23	U	417	467	J	pg/g	☼	112	60 - 135	12	50
PCB-37 - DL	56	J	417	522	J	pg/g	☼	112	60 - 135	1	50
PCB-54 - DL	7.2	U	417	385	J	pg/g	☼	92	60 - 135	11	50
PCB-77 - DL	240		417	626		pg/g	☼	93	60 - 135	3	50
PCB-81 - DL	12	U	417	443		pg/g	☼	106	60 - 135	8	50
PCB-104 - DL	4.1	U	417	432	J	pg/g	☼	104	60 - 135	6	50
PCB-105 - DL	1100		417	1440		pg/g	☼	79	60 - 135	19	50
PCB-114 - DL	29	U	417	441		pg/g	☼	106	60 - 135	13	50
PCB-118 - DL	2100	B	417	2270	4	pg/g	☼	34	60 - 135	24	50
PCB-123 - DL	28	U	417	497		pg/g	☼	119	60 - 135	2	50
PCB-126 - DL	90		417	514		pg/g	☼	102	60 - 135	9	50
PCB-155 - DL	11	U	417	443	J	pg/g	☼	106	60 - 135	2	50
PCB-156/157 - DL	520		834	1410		pg/g	☼	106	60 - 135	5	50
PCB-167 - DL	190		417	575		pg/g	☼	93	60 - 135	8	50
PCB-169 - DL	11	U	417	404		pg/g	☼	97	60 - 135	10	50
PCB-188 - DL	8.8	J q	417	435	J	pg/g	☼	102	60 - 135	1	50
PCB-189 - DL	31	J	417	487		pg/g	☼	109	60 - 135	0	50
PCB-202 - DL	39	J	417	482	J	pg/g	☼	106	60 - 135	7	50
PCB-205 - DL	30	J	417	427	J	pg/g	☼	95	60 - 135	8	50
PCB-206 - DL	250	J	417	623	J	pg/g	☼	90	60 - 135	12	50
PCB-208 - DL	200	J	417	606	J	pg/g	☼	96	60 - 135	9	50
PCB-209 - DL	2700	B	417	2680	4	pg/g	☼	-7	60 - 135	17	50

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
PCB-4L - DL	*55*		*5 - 145*
PCB-15L - DL	*81*		*5 - 145*
PCB-123L - DL	*83*		*10 - 145*
PCB-114L - DL	*82*		*10 - 145*
PCB-202L - DL	*88*		*10 - 145*
PCB-3L - DL	*41*	*q*	*5 - 145*
PCB-118L - DL	*85*		*10 - 145*
PCB-126L - DL	*90*		*10 - 145*
PCB-206L - DL	*96*		*10 - 145*
PCB-169L - DL	*105*		*10 - 145*
PCB-37L - DL	*69*		*5 - 145*
PCB-19L - DL	*61*	*q*	*5 - 145*
PCB-188L - DL	*79*		*10 - 145*
PCB-54L - DL	*71*		*5 - 145*
PCB-156L/157L - DL	*87*		*10 - 145*
PCB-167L - DL	*96*		*10 - 145*
PCB-209L - DL	*92*		*10 - 145*
PCB-189L - DL	*87*		*10 - 145*
PCB-105L - DL	*84*		*10 - 145*
PCB-208L - DL	*94*		*10 - 145*
PCB-1L - DL	*41*		*5 - 145*
PCB-104L - DL	*70*		*10 - 145*
PCB-81L - DL	*82*		*10 - 145*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 34287

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32277

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
PCB-77L - DL	80	q	10 - 145
PCB-205L - DL	98		10 - 145
PCB-155L - DL	74		10 - 145

Surrogate	MSD %Recovery	MSD Qualifier	Limits
PCB-28L - DL	72		5 - 145
PCB-111L - DL	86		10 - 145
PCB-178L - DL	100		10 - 145

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - RA

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 35731

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1 - RA	19	J B	414	448		pg/g	☼	104	60 - 135
PCB-3 - RA	19	J B	414	447		pg/g	☼	104	60 - 135
PCB-4 - RA	28	J	414	497		pg/g	☼	114	60 - 135
PCB-15 - RA	44	q	414	468		pg/g	☼	103	60 - 135
PCB-19 - RA	0.79	U	414	413		pg/g	☼	100	60 - 135
PCB-37 - RA	59		414	498		pg/g	☼	106	60 - 135
PCB-54 - RA	0.37	U	414	438		pg/g	☼	106	60 - 135
PCB-77 - RA	280	G	414	706	G	pg/g	☼	103	60 - 135
PCB-81 - RA	7.0	q G	414	460	G	pg/g	☼	109	60 - 135
PCB-104 - RA	0.50	J	414	479		pg/g	☼	116	60 - 135
PCB-105 - RA	1200	G	414	1720	G	pg/g	☼	126	60 - 135
PCB-114 - RA	23	G	414	467	G	pg/g	☼	107	60 - 135
PCB-118 - RA	2200	B G	414	2760	4 G	pg/g	☼	129	60 - 135
PCB-123 - RA	25	G	414	478	G	pg/g	☼	110	60 - 135
PCB-126 - RA	94	G	414	525	G	pg/g	☼	104	60 - 135
PCB-155 - RA	5.8	U	414	447		pg/g	☼	108	60 - 135
PCB-156/157 - RA	520		827	1450	G	pg/g	☼	113	60 - 135
PCB-167 - RA	180	G	414	642	G	pg/g	☼	111	60 - 135
PCB-169 - RA	5.3	U G	414	435	G	pg/g	☼	105	60 - 135
PCB-188 - RA	9.2	J	414	445		pg/g	☼	105	60 - 135
PCB-189 - RA	34		414	492		pg/g	☼	111	60 - 135
PCB-202 - RA	39	J	414	499		pg/g	☼	111	60 - 135
PCB-205 - RA	28	J	414	458		pg/g	☼	104	60 - 135
PCB-206 - RA	260		414	715		pg/g	☼	111	60 - 135
PCB-208 - RA	210		414	653		pg/g	☼	108	60 - 135
PCB-209 - RA	2700	B	414	3130	4	pg/g	☼	97	60 - 135

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
PCB-4L - RA	46		5 - 145
PCB-15L - RA	70		5 - 145
PCB-123L - RA	79		10 - 145
PCB-114L - RA	77		10 - 145

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - RA (Continued)

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 35731

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32277

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
PCB-202L - RA	75		10 - 145
PCB-3L - RA	52		5 - 145
PCB-118L - RA	80		10 - 145
PCB-126L - RA	88		10 - 145
PCB-206L - RA	80		10 - 145
PCB-169L - RA	104		10 - 145
PCB-37L - RA	74		5 - 145
PCB-19L - RA	60		5 - 145
PCB-188L - RA	69		10 - 145
PCB-54L - RA	57		5 - 145
PCB-156L/157L - RA	87		10 - 145
PCB-167L - RA	83		10 - 145
PCB-209L - RA	81		10 - 145
PCB-189L - RA	84		10 - 145
PCB-105L - RA	81		10 - 145
PCB-208L - RA	85		10 - 145
PCB-1L - RA	41		5 - 145
PCB-104L - RA	57		10 - 145
PCB-81L - RA	82		10 - 145
PCB-77L - RA	80		10 - 145
PCB-205L - RA	84		10 - 145
PCB-155L - RA	62		10 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
PCB-28L - RA	71		5 - 145
PCB-111L - RA	78		10 - 145
PCB-178L - RA	83		10 - 145

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 35731

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32277

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1 - RA	19	J B	417	427		pg/g	☼	98	60 - 135	5	50
PCB-3 - RA	19	J B	417	443		pg/g	☼	102	60 - 135	1	50
PCB-4 - RA	28	J	417	477		pg/g	☼	108	60 - 135	4	50
PCB-15 - RA	44	q	417	453		pg/g	☼	98	60 - 135	3	50
PCB-19 - RA	0.79	U	417	426		pg/g	☼	102	60 - 135	3	50
PCB-37 - RA	59		417	481		pg/g	☼	101	60 - 135	3	50
PCB-54 - RA	0.37	U	417	453		pg/g	☼	109	60 - 135	3	50
PCB-77 - RA	280	G	417	661	G	pg/g	☼	91	60 - 135	7	50
PCB-81 - RA	7.0	q G	417	444	G	pg/g	☼	105	60 - 135	4	50
PCB-104 - RA	0.50	J	417	470		pg/g	☼	112	60 - 135	2	50
PCB-105 - RA	1200	G	417	1470	G	pg/g	☼	63	60 - 135	16	50
PCB-114 - RA	23	G	417	458	G	pg/g	☼	104	60 - 135	2	50
PCB-118 - RA	2200	B G	417	2300	4 G	pg/g	☼	18	60 - 135	18	50
PCB-123 - RA	25	G	417	464	G	pg/g	☼	105	60 - 135	3	50
PCB-126 - RA	94	G	417	517	G	pg/g	☼	101	60 - 135	1	50

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - RA (Continued)

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 35731

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32277

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-155 - RA	5.8	U	417	445		pg/g	☼	107	60 - 135	0	50
PCB-156/157 - RA	520		834	1320		pg/g	☼	96	60 - 135	9	50
PCB-167 - RA	180	G	417	594	G	pg/g	☼	99	60 - 135	8	50
PCB-169 - RA	5.3	U G	417	426	G	pg/g	☼	102	60 - 135	2	50
PCB-188 - RA	9.2	J	417	428		pg/g	☼	100	60 - 135	4	50
PCB-189 - RA	34		417	478		pg/g	☼	106	60 - 135	3	50
PCB-202 - RA	39	J	417	476		pg/g	☼	105	60 - 135	5	50
PCB-205 - RA	28	J	417	451		pg/g	☼	102	60 - 135	1	50
PCB-206 - RA	260		417	671		pg/g	☼	99	60 - 135	6	50
PCB-208 - RA	210		417	604		pg/g	☼	95	60 - 135	8	50
PCB-209 - RA	2700	B	417	2710	4	pg/g	☼	-5	60 - 135	14	50

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
PCB-4L - RA	*54*		*5 - 145*
PCB-15L - RA	*78*		*5 - 145*
PCB-123L - RA	*86*		*10 - 145*
PCB-114L - RA	*84*		*10 - 145*
PCB-202L - RA	*85*		*10 - 145*
PCB-3L - RA	*59*		*5 - 145*
PCB-118L - RA	*86*		*10 - 145*
PCB-126L - RA	*92*		*10 - 145*
PCB-206L - RA	*87*		*10 - 145*
PCB-169L - RA	*111*		*10 - 145*
PCB-37L - RA	*82*		*5 - 145*
PCB-19L - RA	*68*		*5 - 145*
PCB-188L - RA	*80*		*10 - 145*
PCB-54L - RA	*63*		*5 - 145*
PCB-156L/157L - RA	*95*		*10 - 145*
PCB-167L - RA	*92*		*10 - 145*
PCB-209L - RA	*85*		*10 - 145*
PCB-189L - RA	*90*		*10 - 145*
PCB-105L - RA	*86*		*10 - 145*
PCB-208L - RA	*94*		*10 - 145*
PCB-1L - RA	*46*		*5 - 145*
PCB-104L - RA	*63*		*10 - 145*
PCB-81L - RA	*91*		*10 - 145*
PCB-77L - RA	*91*		*10 - 145*
PCB-205L - RA	*90*		*10 - 145*
PCB-155L - RA	*72*		*10 - 145*

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
PCB-28L - RA	*79*		*5 - 145*
PCB-111L - RA	*85*		*10 - 145*
PCB-178L - RA	*95*		*10 - 145*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-31203/1-A
Matrix: Water
Analysis Batch: 32760

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31203

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.62	U	10	0.62	pg/L		12/05/13 13:52	12/27/13 17:19	1
2,3,7,8-TCDF	0.59	U	10	0.59	pg/L		12/05/13 13:52	12/27/13 17:19	1
1,2,3,7,8-PeCDD	1.2	U	50	1.2	pg/L		12/05/13 13:52	12/27/13 17:19	1
1,2,3,7,8-PeCDF	1.2	U	50	1.2	pg/L		12/05/13 13:52	12/27/13 17:19	1
2,3,4,7,8-PeCDF	1.2	U	50	1.2	pg/L		12/05/13 13:52	12/27/13 17:19	1
1,2,3,4,7,8-HxCDD	1.56	J q	50	0.63	pg/L		12/05/13 13:52	12/27/13 17:19	1
1,2,3,6,7,8-HxCDD	1.71	J q	50	0.62	pg/L		12/05/13 13:52	12/27/13 17:19	1
1,2,3,7,8,9-HxCDD	1.80	J q	50	0.54	pg/L		12/05/13 13:52	12/27/13 17:19	1
1,2,3,4,7,8-HxCDF	1.88	J	50	0.75	pg/L		12/05/13 13:52	12/27/13 17:19	1
1,2,3,6,7,8-HxCDF	1.55	J q	50	0.66	pg/L		12/05/13 13:52	12/27/13 17:19	1
1,2,3,7,8,9-HxCDF	1.83	J q	50	0.76	pg/L		12/05/13 13:52	12/27/13 17:19	1
2,3,4,6,7,8-HxCDF	1.49	J q	50	0.72	pg/L		12/05/13 13:52	12/27/13 17:19	1
1,2,3,4,6,7,8-HpCDD	1.6	U	50	1.6	pg/L		12/05/13 13:52	12/27/13 17:19	1
1,2,3,4,6,7,8-HpCDF	1.7	U	50	1.7	pg/L		12/05/13 13:52	12/27/13 17:19	1
1,2,3,4,7,8,9-HpCDF	2.0	U	50	2.0	pg/L		12/05/13 13:52	12/27/13 17:19	1
OCDD	10.5	J	100	2.6	pg/L		12/05/13 13:52	12/27/13 17:19	1
OCDF	5.39	J	100	2.2	pg/L		12/05/13 13:52	12/27/13 17:19	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*83*		*40 - 135*	*12/05/13 13:52*	*12/27/13 17:19*	*1*
13C-1,2,3,7,8-PeCDD	*86*		*40 - 135*	*12/05/13 13:52*	*12/27/13 17:19*	*1*
13C-1,2,3,7,8-PeCDF	*83*		*40 - 135*	*12/05/13 13:52*	*12/27/13 17:19*	*1*
13C-1,2,3,6,7,8-HxCDD	*96*		*40 - 135*	*12/05/13 13:52*	*12/27/13 17:19*	*1*
13C-2,3,7,8-TCDF	*84*		*40 - 135*	*12/05/13 13:52*	*12/27/13 17:19*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*74*		*40 - 135*	*12/05/13 13:52*	*12/27/13 17:19*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*76*		*40 - 135*	*12/05/13 13:52*	*12/27/13 17:19*	*1*
13C-1,2,3,4,7,8-HxCDF	*86*		*40 - 135*	*12/05/13 13:52*	*12/27/13 17:19*	*1*
13C-OCDD	*69*		*40 - 135*	*12/05/13 13:52*	*12/27/13 17:19*	*1*

Lab Sample ID: LCS 320-31203/2-A
Matrix: Water
Analysis Batch: 32760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31203

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	224		pg/L		112	64 - 142
2,3,7,8-TCDF	200	188		pg/L		94	71 - 142
1,2,3,7,8-PeCDD	1000	1070		pg/L		107	71 - 140
1,2,3,7,8-PeCDF	1000	1050		pg/L		105	76 - 135
2,3,4,7,8-PeCDF	1000	1050		pg/L		105	74 - 137
1,2,3,4,7,8-HxCDD	1000	1020		pg/L		102	56 - 146
1,2,3,6,7,8-HxCDD	1000	1070		pg/L		107	73 - 144
1,2,3,7,8,9-HxCDD	1000	958		pg/L		96	71 - 151
1,2,3,4,7,8-HxCDF	1000	1140		pg/L		114	75 - 131
1,2,3,6,7,8-HxCDF	1000	1040		pg/L		104	76 - 133
1,2,3,7,8,9-HxCDF	1000	826		pg/L		83	77 - 142
2,3,4,6,7,8-HxCDF	1000	942		pg/L		94	80 - 137
1,2,3,4,6,7,8-HpCDD	1000	1120		pg/L		112	78 - 139
1,2,3,4,6,7,8-HpCDF	1000	1020		pg/L		102	79 - 133

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-31203/2-A
Matrix: Water
Analysis Batch: 32760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31203

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3,4,7,8,9-HpCDF	1000	1080		pg/L		108	83 - 130
OCDD	2000	2130		pg/L		106	80 - 132
OCDF	2000	2100		pg/L		105	72 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*81*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*92*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*94*		*40 - 135*
13C-2,3,7,8-TCDF	*83*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*70*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*67*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*99*		*40 - 135*
13C-OCDD	*72*		*40 - 135*

Lab Sample ID: MB 320-32158/1-A
Matrix: Solid
Analysis Batch: 34120

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32158

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.013	U	1.0	0.013	pg/g		12/18/13 13:34	01/04/14 00:00	1
2,3,7,8-TCDF	0.011	U	1.0	0.011	pg/g		12/18/13 13:34	01/04/14 00:00	1
1,2,3,7,8-PeCDD	0.027	U	5.0	0.027	pg/g		12/18/13 13:34	01/04/14 00:00	1
1,2,3,7,8-PeCDF	0.016	U	5.0	0.016	pg/g		12/18/13 13:34	01/04/14 00:00	1
2,3,4,7,8-PeCDF	0.016	U	5.0	0.016	pg/g		12/18/13 13:34	01/04/14 00:00	1
1,2,3,4,7,8-HxCDD	0.011	U	5.0	0.011	pg/g		12/18/13 13:34	01/04/14 00:00	1
1,2,3,6,7,8-HxCDD	0.010	U	5.0	0.010	pg/g		12/18/13 13:34	01/04/14 00:00	1
1,2,3,7,8,9-HxCDD	0.030	U	5.0	0.030	pg/g		12/18/13 13:34	01/04/14 00:00	1
1,2,3,4,7,8-HxCDF	0.011	U	5.0	0.011	pg/g		12/18/13 13:34	01/04/14 00:00	1
1,2,3,6,7,8-HxCDF	0.0093	U	5.0	0.0093	pg/g		12/18/13 13:34	01/04/14 00:00	1
1,2,3,7,8,9-HxCDF	0.011	U	5.0	0.011	pg/g		12/18/13 13:34	01/04/14 00:00	1
2,3,4,6,7,8-HxCDF	0.029	U	5.0	0.029	pg/g		12/18/13 13:34	01/04/14 00:00	1
1,2,3,4,6,7,8-HpCDD	0.0699	J q	5.0	0.020	pg/g		12/18/13 13:34	01/04/14 00:00	1
1,2,3,4,6,7,8-HpCDF	0.112	J q	5.0	0.012	pg/g		12/18/13 13:34	01/04/14 00:00	1
1,2,3,4,7,8,9-HpCDF	0.0423	J	5.0	0.014	pg/g		12/18/13 13:34	01/04/14 00:00	1
OCDD	0.615	J q	10	0.019	pg/g		12/18/13 13:34	01/04/14 00:00	1
OCDF	0.0757	J q	10	0.018	pg/g		12/18/13 13:34	01/04/14 00:00	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*91*		*40 - 135*	*12/18/13 13:34*	*01/04/14 00:00*	*1*
13C-1,2,3,7,8-PeCDD	*93*		*40 - 135*	*12/18/13 13:34*	*01/04/14 00:00*	*1*
13C-1,2,3,7,8-PeCDF	*92*		*40 - 135*	*12/18/13 13:34*	*01/04/14 00:00*	*1*
13C-1,2,3,6,7,8-HxCDD	*104*		*40 - 135*	*12/18/13 13:34*	*01/04/14 00:00*	*1*
13C-2,3,7,8-TCDF	*91*		*40 - 135*	*12/18/13 13:34*	*01/04/14 00:00*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*93*		*40 - 135*	*12/18/13 13:34*	*01/04/14 00:00*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*95*		*40 - 135*	*12/18/13 13:34*	*01/04/14 00:00*	*1*
13C-1,2,3,4,7,8-HxCDF	*89*		*40 - 135*	*12/18/13 13:34*	*01/04/14 00:00*	*1*
13C-OCDD	*87*		*40 - 135*	*12/18/13 13:34*	*01/04/14 00:00*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32158/2-A
Matrix: Solid
Analysis Batch: 34120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32158

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	19.9		pg/g		100	77 - 130
2,3,7,8-TCDF	20.0	20.1		pg/g		100	79 - 137
1,2,3,7,8-PeCDD	100	99.3		pg/g		99	79 - 134
1,2,3,7,8-PeCDF	100	103		pg/g		103	81 - 134
2,3,4,7,8-PeCDF	100	99.3		pg/g		99	76 - 132
1,2,3,4,7,8-HxCDD	100	85.7		pg/g		86	65 - 144
1,2,3,6,7,8-HxCDD	100	106		pg/g		106	73 - 147
1,2,3,7,8,9-HxCDD	100	91.6		pg/g		92	80 - 143
1,2,3,4,7,8-HxCDF	100	105		pg/g		105	72 - 140
1,2,3,6,7,8-HxCDF	100	113		pg/g		113	63 - 152
1,2,3,7,8,9-HxCDF	100	99.1		pg/g		99	72 - 152
2,3,4,6,7,8-HxCDF	100	106		pg/g		106	72 - 151
1,2,3,4,6,7,8-HpCDD	100	99.9		pg/g		100	86 - 134
1,2,3,4,6,7,8-HpCDF	100	102		pg/g		102	81 - 137
1,2,3,4,7,8,9-HpCDF	100	94.0		pg/g		94	79 - 139
OCDD	200	194		pg/g		97	80 - 137
OCDF	200	192		pg/g		96	75 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*89*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*88*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*89*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*101*		*40 - 135*
13C-2,3,7,8-TCDF	*87*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*91*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*94*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*90*		*40 - 135*
13C-OCDD	*92*		*40 - 135*

Lab Sample ID: MB 320-32264/1-A
Matrix: Solid
Analysis Batch: 33441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32264

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.012	U	1.0	0.012	pg/g		12/19/13 15:47	01/07/14 16:43	1
2,3,7,8-TCDF	0.0252	J q	1.0	0.0079	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,7,8-PeCDD	0.015	U	5.0	0.015	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,7,8-PeCDF	0.013	U	5.0	0.013	pg/g		12/19/13 15:47	01/07/14 16:43	1
2,3,4,7,8-PeCDF	0.0643	J	5.0	0.014	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,7,8-HxCDD	0.0263	J q	5.0	0.013	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,6,7,8-HxCDD	0.0463	J	5.0	0.0089	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,7,8,9-HxCDD	0.0400	J q	5.0	0.0092	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,7,8-HxCDF	0.391	J	5.0	0.013	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,6,7,8-HxCDF	0.0789	J q	5.0	0.0098	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,7,8,9-HxCDF	0.0384	J q	5.0	0.013	pg/g		12/19/13 15:47	01/07/14 16:43	1
2,3,4,6,7,8-HxCDF	0.0417	J	5.0	0.011	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,6,7,8-HpCDD	0.116	J	5.0	0.016	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,6,7,8-HpCDF	1.04	J	5.0	0.019	pg/g		12/19/13 15:47	01/07/14 16:43	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32264/1-A
Matrix: Solid
Analysis Batch: 33441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32264

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8,9-HpCDF	0.0799	J	5.0	0.022	pg/g		12/19/13 15:47	01/07/14 16:43	1
OCDD	1.03	J	10	0.024	pg/g		12/19/13 15:47	01/07/14 16:43	1
OCDF	1.23	J	10	0.025	pg/g		12/19/13 15:47	01/07/14 16:43	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*96*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-1,2,3,7,8-PeCDD	*95*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-1,2,3,7,8-PeCDF	*94*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-1,2,3,6,7,8-HxCDD	*94*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-2,3,7,8-TCDF	*90*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*104*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*95*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-1,2,3,4,7,8-HxCDF	*87*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-OCDD	*99*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*

Lab Sample ID: LCS 320-32264/2-A
Matrix: Solid
Analysis Batch: 33441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	19.0		pg/g		95	77 - 130
2,3,7,8-TCDF	20.0	19.4		pg/g		97	79 - 137
1,2,3,7,8-PeCDD	100	99.3		pg/g		99	79 - 134
1,2,3,7,8-PeCDF	100	96.9		pg/g		97	81 - 134
2,3,4,7,8-PeCDF	100	97.8		pg/g		98	76 - 132
1,2,3,4,7,8-HxCDD	100	94.5		pg/g		94	65 - 144
1,2,3,6,7,8-HxCDD	100	98.0		pg/g		98	73 - 147
1,2,3,7,8,9-HxCDD	100	103		pg/g		103	80 - 143
1,2,3,4,7,8-HxCDF	100	103		pg/g		103	72 - 140
1,2,3,6,7,8-HxCDF	100	100		pg/g		100	63 - 152
1,2,3,7,8,9-HxCDF	100	102		pg/g		102	72 - 152
2,3,4,6,7,8-HxCDF	100	100		pg/g		100	72 - 151
1,2,3,4,6,7,8-HpCDD	100	100		pg/g		100	86 - 134
1,2,3,4,6,7,8-HpCDF	100	100		pg/g		100	81 - 137
1,2,3,4,7,8,9-HpCDF	100	97.9		pg/g		98	79 - 139
OCDD	200	212		pg/g		106	80 - 137
OCDF	200	200		pg/g		100	75 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*98*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*95*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*95*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*95*		*40 - 135*
13C-2,3,7,8-TCDF	*91*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*98*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*94*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*89*		*40 - 135*
13C-OCDD	*95*		*40 - 135*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 33441

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32264

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	1.1	J	41.4	43.7		pg/g	☼	103	77 - 130
1,2,3,7,8-PeCDD	3.7	J	207	222		pg/g	☼	105	79 - 134
1,2,3,7,8-PeCDF	41		207	252		pg/g	☼	102	81 - 134
2,3,4,7,8-PeCDF	24	B	207	231		pg/g	☼	100	76 - 132
1,2,3,4,7,8-HxCDD	3.4	J B	207	250		pg/g	☼	119	65 - 144
1,2,3,6,7,8-HxCDD	5.6	J B	207	222		pg/g	☼	104	73 - 147
1,2,3,7,8,9-HxCDD	6.8	J B	207	241		pg/g	☼	113	80 - 143
1,2,3,4,7,8-HxCDF	110	B	207	318		pg/g	☼	113	72 - 140
1,2,3,6,7,8-HxCDF	55	B	207	272		pg/g	☼	105	63 - 152
1,2,3,7,8,9-HxCDF	6.9	J B	207	241		pg/g	☼	113	72 - 152
2,3,4,6,7,8-HxCDF	17	B	207	259		pg/g	☼	117	72 - 151
1,2,3,4,6,7,8-HpCDD	24	B	207	247		pg/g	☼	108	86 - 134
1,2,3,4,6,7,8-HpCDF	200	B	207	429		pg/g	☼	110	81 - 137
1,2,3,4,7,8,9-HpCDF	65	B	207	314		pg/g	☼	120	79 - 139
OCDD	45	B	414	487		pg/g	☼	107	80 - 137
OCDF	610	B	414	1060		pg/g	☼	109	75 - 141

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C-1,2,3,6,7,8-HxCDD	*89*		*40 - 135*
13C-2,3,7,8-TCDD	*91*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*95*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*97*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*109*		*40 - 135*
13C-OCDD	*109*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*88*		*40 - 135*

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 33441

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32264

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD	1.1	J	41.7	43.8		pg/g	☼	102	77 - 130	0	20
1,2,3,7,8-PeCDD	3.7	J	208	222		pg/g	☼	105	79 - 134	0	20
1,2,3,7,8-PeCDF	41		208	247		pg/g	☼	99	81 - 134	2	20
2,3,4,7,8-PeCDF	24	B	208	233		pg/g	☼	100	76 - 132	1	20
1,2,3,4,7,8-HxCDD	3.4	J B	208	238		pg/g	☼	112	65 - 144	5	20
1,2,3,6,7,8-HxCDD	5.6	J B	208	244		pg/g	☼	114	73 - 147	10	20
1,2,3,7,8,9-HxCDD	6.8	J B	208	251		pg/g	☼	117	80 - 143	4	20
1,2,3,4,7,8-HxCDF	110	B	208	303		pg/g	☼	105	72 - 140	5	20
1,2,3,6,7,8-HxCDF	55	B	208	262		pg/g	☼	99	63 - 152	4	20
1,2,3,7,8,9-HxCDF	6.9	J B	208	238		pg/g	☼	111	72 - 152	1	20
2,3,4,6,7,8-HxCDF	17	B	208	236		pg/g	☼	105	72 - 151	9	20
1,2,3,4,6,7,8-HpCDD	24	B	208	244		pg/g	☼	106	86 - 134	1	20
1,2,3,4,6,7,8-HpCDF	200	B	208	396		pg/g	☼	94	81 - 137	8	20
1,2,3,4,7,8,9-HpCDF	65	B	208	293		pg/g	☼	109	79 - 139	7	20
OCDD	45	B	417	483		pg/g	☼	105	80 - 137	1	20
OCDF	610	B	417	948		pg/g	☼	81	75 - 141	11	20

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 33441

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32264

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C-1,2,3,6,7,8-HxCDD	83		40 - 135
13C-2,3,7,8-TCDD	91		40 - 135
13C-1,2,3,7,8-PeCDD	89		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	95		40 - 135
13C-1,2,3,7,8-PeCDF	87		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	104		40 - 135
13C-OCDD	103		40 - 135
13C-1,2,3,4,7,8-HxCDF	85		40 - 135

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 33846

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32264

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDF - RA	30	B	41.4	79.5		pg/g	☼	120	79 - 137

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C-2,3,7,8-TCDF - RA	97		40 - 135

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 33846

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 32264

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDF - RA	30	B	41.7	75.1		pg/g	☼	108	79 - 137	6	20

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C-2,3,7,8-TCDF - RA	97		40 - 135

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-89170/1-A
Matrix: Solid
Analysis Batch: 89663

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.21	U	4.2	0.21	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Beryllium	0.14	U	0.42	0.14	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Cadmium	0.085	U	0.42	0.085	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Chromium	0.26	U	0.85	0.26	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Cobalt	0.79	U	4.2	0.79	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Copper	0.61	U	2.1	0.61	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Iron	2.5	U	8.5	2.5	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Magnesium	7.0	U	85	7.0	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Manganese	0.13	U	0.85	0.13	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Nickel	0.19	U	3.4	0.19	mg/Kg		12/03/13 09:19	12/03/13 21:45	1

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

Lab Sample ID: MB 160-89170/1-A
Matrix: Solid
Analysis Batch: 89663

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.15	U	0.85	0.15	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Antimony	0.54	U	0.85	0.54	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Silver	0.20	U	0.85	0.20	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Selenium	0.24	U	1.3	0.24	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Titanium	0.53	U	1.7	0.53	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Vanadium	1.1	U	4.2	1.1	mg/Kg		12/03/13 09:19	12/03/13 21:45	1
Zinc	1.7	U	4.2	1.7	mg/Kg		12/03/13 09:19	12/03/13 21:45	1

Lab Sample ID: MB 160-89170/1-A
Matrix: Solid
Analysis Batch: 91064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12	U	17	12	mg/Kg		12/03/13 09:19	12/10/13 16:59	1
Calcium	11	U	210	11	mg/Kg		12/03/13 09:19	12/10/13 16:59	1
Potassium	290	U	420	290	mg/Kg		12/03/13 09:19	12/10/13 16:59	1
Sodium	40	U	85	40	mg/Kg		12/03/13 09:19	12/10/13 16:59	1

Lab Sample ID: LCS 160-89170/2-A
Matrix: Solid
Analysis Batch: 89663

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	325	297		mg/Kg		91	74 - 125
Beryllium	92.1	80.0		mg/Kg		87	74 - 126
Cadmium	110	96.7		mg/Kg		88	73 - 139
Chromium	93.4	84.2		mg/Kg		90	69 - 130
Cobalt	133	127		mg/Kg		95	74 - 125
Copper	74.7	68.6		mg/Kg		92	73 - 126
Iron	13100	10200		mg/Kg		78	32 - 167
Magnesium	2980	2280		mg/Kg		76	66 - 134
Manganese	443	362		mg/Kg		82	77 - 124
Nickel	109	100		mg/Kg		92	72 - 126
Lead	152	140		mg/Kg		92	73 - 126
Antimony	121	79.8		mg/Kg		66	21 - 251
Silver	51.9	47.2		mg/Kg		91	66 - 133
Selenium	207	185		mg/Kg		89	69 - 131
Titanium	193	137		mg/Kg		71	29 - 171
Vanadium	110	87.8		mg/Kg		80	67 - 132
Zinc	299	270		mg/Kg		90	71 - 128

Lab Sample ID: LCS 160-89170/2-A
Matrix: Solid
Analysis Batch: 91064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9780	6840		mg/Kg		70	44 - 155
Calcium	6700	6100		mg/Kg		91	74 - 125
Potassium	2770	2260		mg/Kg		82	61 - 138

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

Lab Sample ID: LCS 160-89170/2-A
Matrix: Solid
Analysis Batch: 91064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	724	628		mg/Kg		87	56 - 144

Lab Sample ID: MB 160-89180/1-A
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13	U	19	13	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Barium	0.24	U	4.8	0.24	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Beryllium	0.16	U	0.48	0.16	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Cadmium	0.096	U	0.48	0.096	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Calcium	13	U	240	13	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Chromium	0.29	U	0.96	0.29	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Cobalt	0.90	U	4.8	0.90	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Copper	0.70	U	2.4	0.70	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Iron	2.9	U	9.6	2.9	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Magnesium	8.0	U	96	8.0	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Manganese	0.15	U	0.96	0.15	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Nickel	0.22	U	3.8	0.22	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Potassium	320	U	480	320	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Lead	0.17	U	0.96	0.17	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Antimony	0.62	U	0.96	0.62	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Silver	0.22	U	0.96	0.22	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Selenium	0.28	U	1.4	0.28	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Sodium	45	U	96	45	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Titanium	0.61	U	1.9	0.61	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Vanadium	1.2	U	4.8	1.2	mg/Kg		12/03/13 09:29	12/31/13 20:39	1
Zinc	1.9	U	4.8	1.9	mg/Kg		12/03/13 09:29	12/31/13 20:39	1

Lab Sample ID: LCS 160-89180/2-A
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9780	6940		mg/Kg		71	44 - 155
Barium	325	279		mg/Kg		86	74 - 125
Beryllium	92.1	77.8		mg/Kg		84	74 - 126
Cadmium	110	94.9		mg/Kg		86	73 - 139
Calcium	6700	5860		mg/Kg		87	74 - 125
Chromium	93.4	81.5		mg/Kg		87	69 - 130
Cobalt	133	120		mg/Kg		90	74 - 125
Copper	74.7	65.8		mg/Kg		88	73 - 126
Iron	13100	10300		mg/Kg		79	32 - 167
Magnesium	2980	2340		mg/Kg		79	66 - 134
Manganese	443	363		mg/Kg		82	77 - 124
Nickel	109	98.3		mg/Kg		90	72 - 126
Potassium	2770	2190		mg/Kg		79	61 - 138
Lead	152	134		mg/Kg		88	73 - 126
Antimony	121	52.7		mg/Kg		44	21 - 251

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

Lab Sample ID: LCS 160-89180/2-A
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	51.9	45.6		mg/Kg		88	66 - 133
Selenium	207	178		mg/Kg		86	69 - 131
Sodium	724	607		mg/Kg		84	56 - 144
Titanium	193	177		mg/Kg		92	29 - 171
Vanadium	110	89.1		mg/Kg		81	67 - 132
Zinc	299	260		mg/Kg		87	71 - 128

Lab Sample ID: 680-96439-2 MS
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 89180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9100		1020	14700	4	mg/Kg	☼	542	75 - 125
Antimony	2.8	U	50.9	18.6	F1	mg/Kg	☼	37	75 - 125
Barium	170		102	296		mg/Kg	☼	125	75 - 125
Beryllium	0.74	U	102	91.8		mg/Kg	☼	90	75 - 125
Cadmium	0.44	U	102	95.6		mg/Kg	☼	94	75 - 125
Calcium	22000		1020	25300	4	mg/Kg	☼	307	75 - 125
Chromium	68		102	156		mg/Kg	☼	86	75 - 125
Cobalt	9.1	J	102	108		mg/Kg	☼	98	75 - 125
Copper	19		102	126		mg/Kg	☼	105	75 - 125
Iron	13000		1020	16100	4	mg/Kg	☼	270	75 - 125
Lead	18		102	115		mg/Kg	☼	95	75 - 125
Magnesium	8500		1020	12200	4	mg/Kg	☼	365	75 - 125
Manganese	500		102	678	4	mg/Kg	☼	177	75 - 125
Nickel	18		102	131		mg/Kg	☼	111	75 - 125
Potassium	2400		1020	3870	F1	mg/Kg	☼	142	75 - 125
Selenium	1.3	U	50.9	40.9		mg/Kg	☼	80	75 - 125
Silver	1.2	J	20.4	22.1		mg/Kg	☼	103	75 - 125
Sodium	840		1020	2690	F1	mg/Kg	☼	182	75 - 125
Titanium	1500		102	1710	4	mg/Kg	☼	224	75 - 125
Vanadium	160		102	227	F1	mg/Kg	☼	64	75 - 125
Zinc	38		102	136		mg/Kg	☼	96	75 - 125

Lab Sample ID: 680-96439-2 MSD
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 89180

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	9100		892	13500	4	mg/Kg	☼	492	75 - 125	8	30
Antimony	2.8	U	44.6	15.7	F1	mg/Kg	☼	35	75 - 125	17	30
Barium	170		89.2	280		mg/Kg	☼	124	75 - 125	6	30
Beryllium	0.74	U	89.2	84.3		mg/Kg	☼	94	75 - 125	9	30
Cadmium	0.44	U	89.2	88.9		mg/Kg	☼	100	75 - 125	7	30
Calcium	22000		892	64100	E 4 F2	mg/Kg	☼	4697	75 - 125	87	30
Chromium	68		89.2	158		mg/Kg	☼	100	75 - 125	1	30
Cobalt	9.1	J	89.2	97.1		mg/Kg	☼	99	75 - 125	11	30
Copper	19		89.2	117		mg/Kg	☼	110	75 - 125	8	30
Iron	13000		892	15300	4	mg/Kg	☼	214	75 - 125	5	30

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

Lab Sample ID: 680-96439-2 MSD
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 89180

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	18		89.2	108		mg/Kg	☼	101	75 - 125	6	30
Magnesium	8500		892	9600	4	mg/Kg	☼	128	75 - 125	24	30
Manganese	500		89.2	614	4	mg/Kg	☼	130	75 - 125	10	30
Nickel	18		89.2	108		mg/Kg	☼	101	75 - 125	19	30
Potassium	2400		892	3700	F1	mg/Kg	☼	142	75 - 125	5	30
Selenium	1.3	U	44.6	39.4		mg/Kg	☼	88	75 - 125	4	30
Silver	1.2	J	17.8	21.3		mg/Kg	☼	113	75 - 125	4	30
Sodium	840		892	2260	F1	mg/Kg	☼	159	75 - 125	17	30
Titanium	1500		89.2	1770	4	mg/Kg	☼	314	75 - 125	3	30
Vanadium	160		89.2	248		mg/Kg	☼	96	75 - 125	8	30
Zinc	38		89.2	128		mg/Kg	☼	100	75 - 125	6	30

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 89180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	11000		1000	15300	4	mg/Kg	☼	413	75 - 125
Antimony	3.0	U	50.0	19.8	F1	mg/Kg	☼	40	75 - 125
Barium	210		100	284	F1	mg/Kg	☼	69	75 - 125
Beryllium	0.80	U	100	90.9		mg/Kg	☼	91	75 - 125
Cadmium	0.47	U	100	95.6		mg/Kg	☼	96	75 - 125
Calcium	24000		1000	21400	4	mg/Kg	☼	-256	75 - 125
Chromium	15		100	109		mg/Kg	☼	94	75 - 125
Cobalt	9.2	J	100	107		mg/Kg	☼	98	75 - 125
Copper	21		100	122		mg/Kg	☼	101	75 - 125
Iron	15000		1000	17800	4	mg/Kg	☼	238	75 - 125
Lead	17		100	115		mg/Kg	☼	98	75 - 125
Magnesium	12000		1000	13300	4	mg/Kg	☼	131	75 - 125
Manganese	570		100	698	4	mg/Kg	☼	127	75 - 125
Nickel	17	J	100	117		mg/Kg	☼	100	75 - 125
Potassium	3300		1000	3980	F1	mg/Kg	☼	67	75 - 125
Selenium	1.4	U	50.0	43.6		mg/Kg	☼	87	75 - 125
Silver	1.1	U	20.0	18.6		mg/Kg	☼	93	75 - 125
Sodium	4500		1000	5240	4	mg/Kg	☼	76	75 - 125
Titanium	840		100	1120	4	mg/Kg	☼	277	75 - 125
Vanadium	37		100	132		mg/Kg	☼	95	75 - 125
Zinc	47		100	149		mg/Kg	☼	102	75 - 125

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 89180

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	11000		932	14000	4	mg/Kg	☼	310	75 - 125	8	30
Antimony	3.0	U	46.6	17.8	F1	mg/Kg	☼	38	75 - 125	11	30
Barium	210		93.2	287		mg/Kg	☼	77	75 - 125	1	30
Beryllium	0.80	U	93.2	82.0		mg/Kg	☼	88	75 - 125	10	30
Cadmium	0.47	U	93.2	86.3		mg/Kg	☼	93	75 - 125	10	30

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

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 89180

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	24000		932	21900	4	mg/Kg	☼	-219	75 - 125	2	30
Chromium	15		93.2	101		mg/Kg	☼	92	75 - 125	8	30
Cobalt	9.2	J	93.2	98.6		mg/Kg	☼	96	75 - 125	9	30
Copper	21		93.2	111		mg/Kg	☼	96	75 - 125	9	30
Iron	15000		932	18100	4	mg/Kg	☼	284	75 - 125	2	30
Lead	17		93.2	106		mg/Kg	☼	96	75 - 125	8	30
Magnesium	12000		932	13200	4	mg/Kg	☼	131	75 - 125	1	30
Manganese	570		93.2	613	4	mg/Kg	☼	46	75 - 125	13	30
Nickel	17	J	93.2	107		mg/Kg	☼	97	75 - 125	9	30
Potassium	3300		932	3980	F1	mg/Kg	☼	73	75 - 125	0	30
Selenium	1.4	U	46.6	39.6		mg/Kg	☼	85	75 - 125	10	30
Silver	1.1	U	18.6	17.1		mg/Kg	☼	92	75 - 125	8	30
Sodium	4500		932	5020	4	mg/Kg	☼	58	75 - 125	4	30
Titanium	840		93.2	1090	4	mg/Kg	☼	272	75 - 125	2	30
Vanadium	37		93.2	122		mg/Kg	☼	92	75 - 125	7	30
Zinc	47		93.2	137		mg/Kg	☼	97	75 - 125	8	30

Lab Sample ID: MB 160-92863/1-A
Matrix: Water
Analysis Batch: 94290

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	80	U	200	80	ug/L		12/18/13 13:53	12/20/13 21:53	1
Barium	4.0	U	50	4.0	ug/L		12/18/13 13:53	12/20/13 21:53	1
Beryllium	0.61	U	5.0	0.61	ug/L		12/18/13 13:53	12/20/13 21:53	1
Cadmium	0.91	U	5.0	0.91	ug/L		12/18/13 13:53	12/20/13 21:53	1
Calcium	110	U	1000	110	ug/L		12/18/13 13:53	12/20/13 21:53	1
Chromium	3.1	U	10	3.1	ug/L		12/18/13 13:53	12/20/13 21:53	1
Cobalt	4.9	U	50	4.9	ug/L		12/18/13 13:53	12/20/13 21:53	1
Copper	4.6	U	25	4.6	ug/L		12/18/13 13:53	12/20/13 21:53	1
Iron	28	U	100	28	ug/L		12/18/13 13:53	12/20/13 21:53	1
Magnesium	130	U	1000	130	ug/L		12/18/13 13:53	12/20/13 21:53	1
Manganese	3.3	U	15	3.3	ug/L		12/18/13 13:53	12/20/13 21:53	1
Nickel	13	U	40	13	ug/L		12/18/13 13:53	12/20/13 21:53	1
Potassium	1700	U	5000	1700	ug/L		12/18/13 13:53	12/20/13 21:53	1
Lead	1.5	U	10	1.5	ug/L		12/18/13 13:53	12/20/13 21:53	1
Antimony	4.0	U	10	4.0	ug/L		12/18/13 13:53	12/20/13 21:53	1
Silver	6.0	U	10	6.0	ug/L		12/18/13 13:53	12/20/13 21:53	1
Selenium	2.7	U	15	2.7	ug/L		12/18/13 13:53	12/20/13 21:53	1
Sodium	320	U	1000	320	ug/L		12/18/13 13:53	12/20/13 21:53	1
Titanium	2.4	U	20	2.4	ug/L		12/18/13 13:53	12/20/13 21:53	1
Vanadium	4.1	U	50	4.1	ug/L		12/18/13 13:53	12/20/13 21:53	1
Zinc	5.2	U	20	5.2	ug/L		12/18/13 13:53	12/20/13 21:53	1

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

Lab Sample ID: LCS 160-92863/2-A
Matrix: Water
Analysis Batch: 94290

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92863

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	10400		ug/L		104	80 - 120
Barium	1000	1070		ug/L		107	80 - 120
Beryllium	1000	1080		ug/L		108	80 - 120
Cadmium	1000	1050		ug/L		105	80 - 120
Calcium	10000	11000		ug/L		110	80 - 120
Chromium	1000	1060		ug/L		106	80 - 120
Cobalt	1000	1090		ug/L		109	80 - 120
Copper	1000	1090		ug/L		109	80 - 120
Iron	10000	10900		ug/L		109	80 - 120
Magnesium	10000	10100		ug/L		101	80 - 120
Manganese	1000	1100		ug/L		110	80 - 120
Nickel	1000	1120		ug/L		112	80 - 120
Potassium	10000	10900		ug/L		109	80 - 120
Lead	1000	1110		ug/L		111	80 - 120
Antimony	500	530		ug/L		106	80 - 120
Silver	200	211		ug/L		106	80 - 120
Selenium	500	531		ug/L		106	80 - 120
Sodium	10000	11000		ug/L		110	80 - 120
Titanium	1000	1040		ug/L		104	80 - 120
Vanadium	1000	1040		ug/L		104	80 - 120
Zinc	1000	1070		ug/L		107	80 - 120

Lab Sample ID: 680-96439-22 MS
Matrix: Water
Analysis Batch: 94290

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 92863

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	80	U	10000	10400		ug/L		104	75 - 125
Barium	4.0	U	1000	1060		ug/L		106	75 - 125
Beryllium	0.61	U	1000	1070		ug/L		107	75 - 125
Cadmium	0.91	U	1000	1130		ug/L		113	75 - 125
Calcium	110	U	10000	11800		ug/L		118	75 - 125
Chromium	3.1	U	1000	1100		ug/L		110	75 - 125
Cobalt	4.9	U	1000	1170		ug/L		117	75 - 125
Copper	4.6	U	1000	1180		ug/L		118	75 - 125
Iron	28	U	10000	10900		ug/L		109	75 - 125
Magnesium	130	U	10000	10200		ug/L		102	75 - 125
Manganese	3.3	U	1000	1100		ug/L		110	75 - 125
Nickel	13	U	1000	1190		ug/L		119	75 - 125
Potassium	1700	U	10000	11000		ug/L		110	75 - 125
Lead	1.5	U	1000	1180		ug/L		118	75 - 125
Antimony	4.0	U	500	574		ug/L		115	75 - 125
Silver	6.0	U	200	221		ug/L		110	75 - 125
Selenium	2.7	U	500	573		ug/L		115	75 - 125
Sodium	320	U	10000	11100		ug/L		111	75 - 125
Titanium	2.4	U	1000	1040		ug/L		104	75 - 125
Vanadium	4.1	U	1000	1050		ug/L		105	75 - 125
Zinc	5.2	U	1000	1150		ug/L		115	75 - 125

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

Lab Sample ID: 680-96439-22 MSD
Matrix: Water
Analysis Batch: 94290

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 92863

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	80	U	10000	10500		ug/L		105	75 - 125	1	20
Barium	4.0	U	1000	1080		ug/L		108	75 - 125	1	20
Beryllium	0.61	U	1000	1080		ug/L		108	75 - 125	0	20
Cadmium	0.91	U	1000	1050		ug/L		105	75 - 125	7	20
Calcium	110	U	10000	11100		ug/L		111	75 - 125	6	20
Chromium	3.1	U	1000	1060		ug/L		106	75 - 125	4	20
Cobalt	4.9	U	1000	1090		ug/L		109	75 - 125	7	20
Copper	4.6	U	1000	1090		ug/L		109	75 - 125	8	20
Iron	28	U	10000	10900		ug/L		109	75 - 125	0	20
Magnesium	130	U	10000	10100		ug/L		101	75 - 125	1	20
Manganese	3.3	U	1000	1100		ug/L		110	75 - 125	0	20
Nickel	13	U	1000	1120		ug/L		112	75 - 125	6	20
Potassium	1700	U	10000	11200		ug/L		112	75 - 125	2	20
Lead	1.5	U	1000	1110		ug/L		111	75 - 125	7	20
Antimony	4.0	U	500	529		ug/L		106	75 - 125	8	20
Silver	6.0	U	200	211		ug/L		106	75 - 125	4	20
Selenium	2.7	U	500	531		ug/L		106	75 - 125	8	20
Sodium	320	U	10000	11300		ug/L		113	75 - 125	2	20
Titanium	2.4	U	1000	1040		ug/L		104	75 - 125	0	20
Vanadium	4.1	U	1000	1050		ug/L		105	75 - 125	0	20
Zinc	5.2	U	1000	1070		ug/L		107	75 - 125	7	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-89165/1-A
Matrix: Solid
Analysis Batch: 94704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89165

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.25	U	0.96	0.25	mg/Kg		12/03/13 09:05	12/25/13 09:28	2
Niobium	0.37	U	2.4	0.37	mg/Kg		12/03/13 09:05	12/25/13 09:28	2
Thallium	0.15	U	0.48	0.15	mg/Kg		12/03/13 09:05	12/25/13 09:28	2
Uranium	0.019	U	0.096	0.019	mg/Kg		12/03/13 09:05	12/25/13 09:28	2

Lab Sample ID: LCS 160-89165/25-A
Matrix: Solid
Analysis Batch: 94704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89165

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	42.9	42.5	E	mg/Kg		99	80 - 120
Uranium	85.8	89.8		mg/Kg		105	80 - 120

Lab Sample ID: LCS 160-89165/2-A
Matrix: Solid
Analysis Batch: 94704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89165

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	109	109		mg/Kg		100	70 - 131

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

Lab Sample ID: LCS 160-89165/2-A
Matrix: Solid
Analysis Batch: 94704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89165

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Thallium			171	179		mg/Kg		105	68 - 131		

Lab Sample ID: 680-96439-2 MS
Matrix: Solid
Analysis Batch: 94704

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 89165

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	3.0	J	102	106		mg/Kg	☼	101	75 - 125		
Niobium	45		50.9	56.6	F	mg/Kg	☼	22	75 - 125		
Thallium	0.67	U	20.4	21.6		mg/Kg	☼	106	75 - 125		
Uranium	11		102	120		mg/Kg	☼	107	75 - 125		

Lab Sample ID: 680-96439-2 MSD
Matrix: Solid
Analysis Batch: 94704

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 89165

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3.0	J	89.2	91.5		mg/Kg	☼	99	75 - 125	14	30
Niobium	45		44.6	60.9	F	mg/Kg	☼	35	75 - 125	7	30
Thallium	0.67	U	17.8	18.7		mg/Kg	☼	105	75 - 125	15	30
Uranium	11		89.2	107		mg/Kg	☼	108	75 - 125	11	30

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 94704

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 89165

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	3.5	J	100	101		mg/Kg	☼	97	75 - 125		
Niobium	2.0	J	50.0	19.5	F	mg/Kg	☼	35	75 - 125		
Thallium	0.72	U	20.0	19.6		mg/Kg	☼	98	75 - 125		
Uranium	0.73		100	98.0		mg/Kg	☼	97	75 - 125		

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 94704

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 89165

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3.5	J	93.2	92.1		mg/Kg	☼	95	75 - 125	9	30
Niobium	2.0	J	46.6	18.9	F	mg/Kg	☼	36	75 - 125	3	30
Thallium	0.72	U	18.6	18.4		mg/Kg	☼	99	75 - 125	6	30
Uranium	0.73		93.2	92.1		mg/Kg	☼	98	75 - 125	6	30

Lab Sample ID: MB 160-89178/1-A
Matrix: Solid
Analysis Batch: 94701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.22	U	0.85	0.22	mg/Kg		12/03/13 09:24	12/25/13 03:04	2
Niobium	0.32	U	2.1	0.32	mg/Kg		12/03/13 09:24	12/25/13 03:04	2

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

Lab Sample ID: MB 160-89178/1-A
Matrix: Solid
Analysis Batch: 94701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.13	U	0.42	0.13	mg/Kg		12/03/13 09:24	12/25/13 03:04	2
Uranium	0.017	U	0.085	0.017	mg/Kg		12/03/13 09:24	12/25/13 03:04	2

Lab Sample ID: LCS 160-89178/12-A
Matrix: Solid
Analysis Batch: 94701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	47.5	48.6	E	mg/Kg		102	80 - 120
Uranium	94.9	97.2		mg/Kg		102	80 - 120

Lab Sample ID: LCS 160-89178/2-A
Matrix: Solid
Analysis Batch: 94701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	109	117		mg/Kg		107	70 - 131
Thallium	171	186		mg/Kg		109	68 - 131

Lab Sample ID: MB 160-92865/1-A
Matrix: Water
Analysis Batch: 94703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		12/18/13 13:55	12/25/13 06:59	1
Niobium	2.2	U	25	2.2	ug/L		12/18/13 13:55	12/25/13 06:59	1
Thallium	0.55	U	2.0	0.55	ug/L		12/18/13 13:55	12/25/13 06:59	1
Uranium	0.23	U	1.0	0.23	ug/L		12/18/13 13:55	12/25/13 06:59	1

Lab Sample ID: LCS 160-92865/2-A
Matrix: Water
Analysis Batch: 94703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1000		ug/L		100	80 - 120
Niobium	500	549		ug/L		110	80 - 120
Thallium	200	213		ug/L		106	80 - 120
Uranium	1000	1010		ug/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-88412/1-A
Matrix: Water
Analysis Batch: 88430

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		11/27/13 08:55	11/27/13 09:29	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 160-88412/2-A
Matrix: Water
Analysis Batch: 88430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.96		ug/L		99	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 160-87981/1-A
Matrix: Solid
Analysis Batch: 88766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0099	U	0.030	0.0099	mg/Kg		11/26/13 06:54	11/27/13 14:28	1

Lab Sample ID: LCS 160-87981/2-A
Matrix: Solid
Analysis Batch: 88766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	16.3	14.9		mg/Kg		92	51 - 148

Lab Sample ID: 680-96439-2 MS
Matrix: Solid
Analysis Batch: 88766

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 87981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.021	J	0.835	0.922		mg/Kg	☼	108	80 - 120

Lab Sample ID: 680-96439-2 MSD
Matrix: Solid
Analysis Batch: 88766

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 87981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.021	J	0.814	0.850		mg/Kg	☼	102	80 - 120	8	30

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 88766

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 87981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.019	J	0.775	0.867		mg/Kg	☼	109	80 - 120

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 88766

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 87981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.019	J	0.765	0.812		mg/Kg	☼	104	80 - 120	7	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-88451/10
Matrix: Water
Analysis Batch: 88451

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0040	U	0.020	0.0040	mg/L			11/22/13 14:02	1
Chloride	0.020	U	0.20	0.020	mg/L			11/22/13 14:02	1
Sulfate	0.050	U	0.50	0.050	mg/L			11/22/13 14:02	1

Lab Sample ID: LCS 160-88451/11
Matrix: Water
Analysis Batch: 88451

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.400	0.390		mg/L		98	90 - 110
Chloride	2.00	1.95		mg/L		97	90 - 110
Sulfate	8.00	7.78		mg/L		97	90 - 110

Lab Sample ID: MB 160-90489/1-A
Matrix: Solid
Analysis Batch: 93481

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.040	U	0.20	0.040	mg/Kg			12/10/13 12:17	1
Chloride	0.20	U	2.0	0.20	mg/Kg			12/10/13 12:17	1
Sulfate	0.50	U	5.0	0.50	mg/Kg			12/10/13 12:17	1

Lab Sample ID: LCS 160-90489/2-A
Matrix: Solid
Analysis Batch: 93481

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.00	3.86		mg/Kg		97	90 - 110
Chloride	20.0	19.8		mg/Kg		99	90 - 110
Sulfate	80.0	77.1		mg/Kg		96	90 - 110

Lab Sample ID: MB 160-90489/1-A
Matrix: Solid
Analysis Batch: 93483

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.040	U	0.20	0.040	mg/Kg			12/09/13 15:44	1
Sulfate	0.50	U	5.0	0.50	mg/Kg			12/09/13 15:44	1

Lab Sample ID: LCS 160-90489/2-A
Matrix: Solid
Analysis Batch: 93483

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.00	3.94		mg/Kg		98	90 - 110
Sulfate	80.0	76.9		mg/Kg		96	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-96439-2 MS
Matrix: Solid
Analysis Batch: 93483

Client Sample ID: FM-SS-1_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.6		4.06	8.87		mg/Kg	☼	106	90 - 110

Lab Sample ID: 680-96439-2 MSD
Matrix: Solid
Analysis Batch: 93483

Client Sample ID: FM-SS-1_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	4.6		4.12	7.90	F	mg/Kg	☼	81	90 - 110	12	20

Lab Sample ID: MB 160-92856/1-A
Matrix: Solid
Analysis Batch: 94320

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.040	U	0.20	0.040	mg/Kg			12/18/13 16:13	1
Chloride	0.20	U	2.0	0.20	mg/Kg			12/18/13 16:13	1
Sulfate	0.50	U	5.0	0.50	mg/Kg			12/18/13 16:13	1

Lab Sample ID: LCS 160-92856/2-A
Matrix: Solid
Analysis Batch: 94320

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.00	3.92		mg/Kg		98	90 - 110
Chloride	20.0	19.1		mg/Kg		95	90 - 110
Sulfate	80.0	75.5		mg/Kg		94	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 680-96439-2 MS
Matrix: Solid
Analysis Batch: 93483

Client Sample ID: FM-SS-1_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	4100		812	4590	4	mg/Kg	☼	65	90 - 110

Lab Sample ID: 680-96439-2 MSD
Matrix: Solid
Analysis Batch: 93483

Client Sample ID: FM-SS-1_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate - DL	4100		824	5140	4	mg/Kg	☼	130	90 - 110	11	20

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 93483

Client Sample ID: BY-SS-3_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N - DL	14		83.5	93.5		mg/Kg	☼	95	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL (Continued)

Lab Sample ID: 680-96439-11 MS — **Client Sample ID: BY-SS-3_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 93483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	570		835	1280	F	mg/Kg	☼	86	90 - 110

Lab Sample ID: 680-96439-11 MSD — **Client Sample ID: BY-SS-3_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 93483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N - DL	14		83.7	95.8		mg/Kg	☼	97	90 - 110	2	20
Sulfate - DL	570		837	1230	F	mg/Kg	☼	80	90 - 110	4	20

Method: 300.0 - Anions, Ion Chromatography - DL2

Lab Sample ID: 680-96439-2 MS — **Client Sample ID: FM-SS-1_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 93481

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL2	1500		2030	3680		mg/Kg	☼	105	90 - 110

Lab Sample ID: 680-96439-2 MSD — **Client Sample ID: FM-SS-1_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 93481

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride - DL2	1500		2060	3460		mg/Kg	☼	93	90 - 110	6	20

Lab Sample ID: 680-96439-11 MS — **Client Sample ID: BY-SS-3_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 93481

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL2	4500		4180	8500		mg/Kg	☼	97	90 - 110

Lab Sample ID: 680-96439-11 MSD — **Client Sample ID: BY-SS-3_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 93481

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride - DL2	4500		4180	8100	F	mg/Kg	☼	87	90 - 110	5	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-94280/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 94286 — **Prep Batch: 94280**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.3893	U	10.0	4.99	pCi/g		12/23/13 11:18	12/23/13 18:49	1
Gross Beta	2.595		10.0	2.27	pCi/g		12/23/13 11:18	12/23/13 18:49	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Lab Sample ID: LCS 160-94280/2-A
Matrix: Solid
Analysis Batch: 94286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94280

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	27.1	16.36		5.24	4.95	pCi/g	60	44 - 140
Gross Beta	26.8	26.95		4.16	2.66	pCi/g	101	38 - 130

Lab Sample ID: 680-96439-2 DU
Matrix: Solid
Analysis Batch: 94286

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 94280

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Gross Alpha	74.2		92.18		14.7	4.75	pCi/g	0.67	1
Gross Beta	49.1		50.84		6.70	3.41	pCi/g	0.13	1

Lab Sample ID: 680-96439-11 DU
Matrix: Solid
Analysis Batch: 94286

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 94280

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Gross Alpha	27.5		22.06		5.84	4.45	pCi/g	0.44	1
Gross Beta	27.9		28.18		4.17	2.43	pCi/g	0.04	1

Lab Sample ID: MB 160-95023/1-A
Matrix: Water
Analysis Batch: 95463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95023

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	0.4357	U	3.00	1.40	pCi/L		12/27/13 12:05	12/30/13 08:44	1
Gross Beta	0.1862	U	4.00	0.917	pCi/L		12/27/13 12:05	12/30/13 08:44	1

Lab Sample ID: LCS 160-95023/2-A
Matrix: Water
Analysis Batch: 95463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95023

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	53.8	53.41		7.57	1.68	pCi/L	99	75 - 125

Lab Sample ID: LCSB 160-95023/3-A
Matrix: Water
Analysis Batch: 95463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95023

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	98.3	100.9		10.6	1.02	pCi/L	103	75 - 125

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-88180/1-A
Matrix: Solid
Analysis Batch: 92841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88180

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	0.1244	U		0.410	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Bismuth-212	0.03317	U		1.74	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Bismuth-214	0.08214	U		0.220	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Bismuth-210M	-0.001194	U		0.127	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Cesium-134	0.002010	U		0.120	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Cesium-137	-0.02445	U		0.159	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Cobalt-57	-0.004934	U		0.0494	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Cobalt-60	0.002293	U		0.102	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Lead-212	0.02855	U		0.180	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Lead-214	-0.04681	U		0.283	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Potassium-40	-0.6233	U		1.76	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Protactinium-231	0.06791	U		2.14	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Protactinium-234	-0.02928	U		0.258	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Radium-224	-0.3006	U		1.84	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Thallium-208	0.01163	U		0.101	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Thorium-227	0.07579	U		0.584	pCi/g		11/26/13 14:40	12/18/13 19:13	1
Thorium-234	-0.04435	U		1.99	pCi/g		11/26/13 14:40	12/18/13 19:13	1

Lab Sample ID: LCS 160-88180/2-A
Matrix: Solid
Analysis Batch: 92839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88180

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	31.4	30.82		3.28	0.228	pCi/g	98	87 - 120
Cobalt-60	23.7	23.02		2.36	0.126	pCi/g	97	87 - 115
Americium-241	97.5	96.75		10.1	1.00	pCi/g	99	87 - 116

Lab Sample ID: 680-96439-2 DU
Matrix: Solid
Analysis Batch: 92840

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 88180

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Actinium 228	1.91		2.137		0.384	0.141	pCi/g	0.31	1
Bismuth-212	3.09		2.226		1.01	0.980	pCi/g	0.37	1
Bismuth-214	2.34		2.544		0.369	0.156	pCi/g	0.26	1
Bismuth-210M	0.0513	U	-0.00724	U	0.0869	0.149	pCi/g	0.42	1
Cesium-134	0.0287	U	-0.007674	U	0.0113	0.119	pCi/g	0.68	1
Cesium-137	-0.0530	U	0.007711	U	0.0389	0.0698	pCi/g	0.22	1
Cobalt-57	0.00656	U	-0.005373	U	0.0449	0.0760	pCi/g	0.13	1
Cobalt-60	0.0111	U	0.000357	U	0.0541	0.0998	pCi/g	0.08	1
Lead-212	1.99		1.753		0.275	0.135	pCi/g	0.40	1
Lead-214	2.71		2.174		0.306	0.207	pCi/g	0.75	1
Potassium-40	21.8		23.87		3.14	0.601	pCi/g	0.33	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: 680-96439-2 DU
Matrix: Solid
Analysis Batch: 92840

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 88180

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Protactinium-231	1.47	U	0.8353	U	0.684	2.87	pCi/g	0.38	1
Protactinium-234	0.0502	U	0.1581	U	0.180	0.270	pCi/g	0.28	1
Radium-224	2.43	U	2.037	U	1.48	2.34	pCi/g	0.13	1
Thallium-208	0.600		0.6097		0.110	0.0670	pCi/g	0.04	1
Thorium-227	0.389	U	0.05479	U	0.207	1.86	pCi/g	0.69	1
Thorium-234	3.56		2.909		0.798	2.52	pCi/g	0.28	1

Lab Sample ID: 680-96439-11 DU
Matrix: Solid
Analysis Batch: 92830

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 88180

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Actinium 228	1.65		1.797		0.274	0.0986	pCi/g	0.27	1
Bismuth-212	2.17		2.148		0.797	0.699	pCi/g	0.02	1
Bismuth-214	1.04		1.082		0.224	0.152	pCi/g	0.08	1
Bismuth-210M	0.0403	U	0.02313	U	0.0516	0.106	pCi/g	0.15	1
Cesium-134	-0.0127	U	0.03821	U	0.0538	0.0528	pCi/g	0.62	1
Cesium-137	0.00960	U	-0.00111 6	U	0.0478	0.0849	pCi/g	0.11	1
Cobalt-57	0.0255	U	0.02078	U	0.0393	0.0447	pCi/g	0.06	1
Cobalt-60	-0.00167	U	-0.01405	U	0.0556	0.0979	pCi/g	0.12	1
Lead-212	1.62		1.739		0.266	0.121	pCi/g	0.23	1
Lead-214	0.943		1.184		0.203	0.135	pCi/g	0.64	1
Potassium-40	22.5		23.67		3.02	0.522	pCi/g	0.19	1
Protactinium-231	0.648	U	0.4495	U	0.378	2.34	pCi/g	0.19	1
Protactinium-234	-0.0258	U	0.05537	U	0.175	0.281	pCi/g	0.23	1
Radium-224	1.75		2.372		1.25	1.91	pCi/g	0.28	1
Thallium-208	0.523		0.5484		0.0961	0.0471	pCi/g	0.12	1
Thorium-227	0.173	U	0.5632		0.172	0.157	pCi/g	0.94	1
Thorium-234	0.938	U	2.499		1.61	1.79	pCi/g	0.53	1

Lab Sample ID: MB 160-90469/1-A
Matrix: Water
Analysis Batch: 95684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90469

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	6.120	U		39.1	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Bismuth-212	2.590	U		143	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Bismuth-214	35.34			22.7	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Bismuth-210M	3.226	U		14.3	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Cesium-134	0.4099	U		13.7	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Cesium-137	-0.1104	U		10.2	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Cobalt-57	1.131	U		8.48	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Cobalt-60	4.355	U		15.7	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Lead-212	13.46	U		22.6	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Lead-214	19.51	U		25.1	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Potassium-40	-22.81	U		193	pCi/L		12/09/13 13:26	01/01/14 13:26	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-90469/1-A
Matrix: Water
Analysis Batch: 95684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90469

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Protactinium-231	46.67	U		258	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Protactinium-234	-1.209	U		43.6	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Radium-224	71.71	U		214	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Thallium-208	-0.7958	U		14.2	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Thorium-227	-18.58	U		80.3	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Thorium-231	6.142	U		65.6	pCi/L		12/09/13 13:26	01/01/14 13:26	1
Thorium-234	33.50	U		203	pCi/L		12/09/13 13:26	01/01/14 13:26	1

Lab Sample ID: LCS 160-90469/2-A
Matrix: Water
Analysis Batch: 95684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90469

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	50500	51010		5080	181	pCi/L	101	90 - 111
Cobalt-60	60000	58550		5780	145	pCi/L	98	89 - 110
Americium-241	137000	136900		15800	508	pCi/L	100	90 - 111

Lab Sample ID: 680-96439-22 DU
Matrix: Water
Analysis Batch: 95827

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 90469

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Actinium 228	25.7	U	14.92	U	19.4	41.2	pCi/L	0.28	1
Bismuth-212	10.2	U	0.0000	U	79.3	175	pCi/L	0.06	1
Bismuth-214	18.4	U	50.50		18.2	23.2	pCi/L	0.95	1
Bismuth-210M	-0.851	U	-1.369	U	7.79	13.8	pCi/L	0.05	1
Cesium-134	-2.73	U	4.118	U	4.18	5.35	pCi/L	0.70	1
Cesium-137	1.00	U	1.348	U	7.56	13.5	pCi/L	0.02	1
Cobalt-57	2.73	U	2.011	U	4.88	9.13	pCi/L	0.09	1
Cobalt-60	-0.354	U	-3.908	U	8.04	14.0	pCi/L	0.23	1
Lead-212	8.17	U	3.498	U	13.1	24.1	pCi/L	0.17	1
Lead-214	36.8		19.57	U	13.6	26.5	pCi/L	0.55	1
Potassium-40	-33.0	U	-85.61	U	464	211	pCi/L	0.09	1
Protactinium-231	27.8	U	58.35	U	116	256	pCi/L	0.11	1
Protactinium-234	-0.355	U	7.257	U	27.6	36.9	pCi/L	0.15	1
Radium-224	-55.3	U	44.02	U	117	200	pCi/L	0.38	1
Thallium-208	-1.59	U	5.499	U	7.12	13.2	pCi/L	0.41	1
Thorium-227	-9.50	U	0.4045	U	43.0	75.4	pCi/L	0.12	1
Thorium-231	62.6		1.765	U	39.4	68.4	pCi/L	0.77	1
Thorium-234	127	U	27.46	U	63.9	210	pCi/L	0.42	1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-87734/1-A
Matrix: Water
Analysis Batch: 92648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87734

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.02024	U	1.00	0.0713	pCi/L		11/25/13 15:03	12/17/13 08:52	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*11/25/13 15:03*	*12/17/13 08:52*	*1*

Lab Sample ID: LCS 160-87734/2-A
Matrix: Water
Analysis Batch: 92648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87734

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.2	9.613		0.956		0.0704	pCi/L	85	68 - 137		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*104*		*40 - 110*

Lab Sample ID: 680-96439-22 DU
Matrix: Water
Analysis Batch: 92648

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 87734

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-226	0.0524	U		0.03204	U	0.0425		0.0710	pCi/L			0.22	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*97.6*		*40 - 110*

Lab Sample ID: MB 160-88153/1-A
Matrix: Solid
Analysis Batch: 94684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88153

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	-0.004212	U	1.00	0.108	pCi/g		11/26/13 13:36	12/24/13 11:34	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*40 - 110*	*11/26/13 13:36*	*12/24/13 11:34*	*1*

Lab Sample ID: LCS 160-88153/2-A
Matrix: Solid
Analysis Batch: 94684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88153

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.2	11.07		1.11		0.0960	pCi/g	98	65 - 140		

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-88153/2-A
Matrix: Solid
Analysis Batch: 94684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88153

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	107		40 - 110

Lab Sample ID: 680-96439-2 MS
Matrix: Solid
Analysis Batch: 94684

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 88153

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226	2.97		11.0	11.52		1.15		0.114	pCi/g	78	72 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	104		40 - 110

Lab Sample ID: 680-96439-2 MSD
Matrix: Solid
Analysis Batch: 94684

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 88153

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	2.97		11.2	12.69		1.26		0.121	pCi/g	87	72 - 140	0.49	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	107		40 - 110

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 94684

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 88153

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.953		11.0	10.79		1.08		0.0883	pCi/g	89	72 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	109		40 - 110

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 94684

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 88153

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.953		11.2	11.90		1.19		0.0961	pCi/g	98	72 - 140	0.49	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	112	X	40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-87736/1-A
Matrix: Water
Analysis Batch: 91102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87736

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	-0.08434	U	1.00	0.331	pCi/L		11/25/13 15:06	12/11/13 10:56	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*11/25/13 15:06*	*12/11/13 10:56*	*1*
Y Carrier	*87.5*		*40 - 110*	*11/25/13 15:06*	*12/11/13 10:56*	*1*

Lab Sample ID: LCS 160-87736/2-A
Matrix: Water
Analysis Batch: 91102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87736

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-228	4.06	4.315		0.584	0.311	pCi/L	106	56 - 140

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*104*		*40 - 110*
Y Carrier	*85.2*		*40 - 110*

Lab Sample ID: 680-96439-22 DU
Matrix: Water
Analysis Batch: 91102

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 87736

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Radium-228	0.290	U	-0.05385	U	0.212	0.388	pCi/L	0.73	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*97.6*		*40 - 110*
Y Carrier	*86.0*		*40 - 110*

Lab Sample ID: MB 160-88159/1-A
Matrix: Solid
Analysis Batch: 93801

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88159

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.01758	U	1.00	0.405	pCi/g		11/26/13 14:00	12/20/13 12:25	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:25*	*1*
Y Carrier	*87.9*		*40 - 110*	*11/26/13 14:00*	*12/20/13 12:25*	*1*

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-88159/2-A
Matrix: Solid
Analysis Batch: 93801

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88159

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-228			4.05	3.437		0.532		0.364	pCi/g	85	61 - 139		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*107*		*40 - 110*
Y Carrier	*92.0*		*40 - 110*

Lab Sample ID: 680-96439-2 MS
Matrix: Solid
Analysis Batch: 93801

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 88159

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-228	1.39		3.95	4.844		0.673		0.396	pCi/g	88	30 - 150		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*104*		*40 - 110*
Y Carrier	*89.3*		*40 - 110*

Lab Sample ID: 680-96439-2 MSD
Matrix: Solid
Analysis Batch: 93801

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 88159

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	1.39		4.05	4.723		0.656		0.364	pCi/g	82	30 - 150	0.09	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*107*		*40 - 110*
Y Carrier	*90.8*		*40 - 110*

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 93801

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 88159

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-228	1.08		3.97	5.182		0.707		0.372	pCi/g	103	30 - 150		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*109*		*40 - 110*
Y Carrier	*86.4*		*40 - 110*

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 93801

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 88159

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	1.08		4.04	5.641		0.762		0.414	pCi/g	113	30 - 150	0.31	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*112*	*X*	*40 - 110*
Y Carrier	*84.9*		*40 - 110*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-92428/1-A
Matrix: Solid
Analysis Batch: 95201

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92428

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.06046	U	1.00	0.0700	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-230	0.1744		1.00	0.0535	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-232	0.01857	U	1.00	0.0466	pCi/g		12/16/13 15:38	12/27/13 20:53	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*92.9*		*30 - 110*	*12/16/13 15:38*	*12/27/13 20:53*	*1*

Lab Sample ID: LCS 160-92428/2-A
Matrix: Solid
Analysis Batch: 95202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92428

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			24.5	23.51		2.41		0.104	pCi/g	96	81 - 118		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*90.0*		*30 - 110*

Lab Sample ID: 680-96439-2 MS
Matrix: Solid
Analysis Batch: 95248

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 92428

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230	4.89		4.30	9.086		0.995		0.101	pCi/g	98	76 - 115		

Tracer	*MS %Yield*	*MS Qualifier*	*Limits*
Thorium-229	*83.8*		*30 - 110*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: 680-96439-2 MSD
Matrix: Solid
Analysis Batch: 95240

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 92428

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Thorium-230	4.89		4.31	9.706		1.05		0.0512	pCi/g	112	76 - 115	0.30	1

Tracer	*MSD %Yield*	*MSD Qualifier*	*Limits*
Thorium-229	*83.3*		*30 - 110*

Lab Sample ID: MB 160-94524/1-A
Matrix: Water
Analysis Batch: 95311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94524

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.1491	U	1.00	0.174	pCi/L		12/24/13 09:24	12/30/13 20:40	1
Thorium-230	0.1814	U	1.00	0.278	pCi/L		12/24/13 09:24	12/30/13 20:40	1
Thorium-232	-0.06193	U	1.00	0.253	pCi/L		12/24/13 09:24	12/30/13 20:40	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*66.1*		*30 - 110*	*12/24/13 09:24*	*12/30/13 20:40*	*1*

Lab Sample ID: LCS 160-94524/2-A
Matrix: Water
Analysis Batch: 95362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94524

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			8.64	9.209		1.24		0.268	pCi/L	107	81 - 125		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*73.2*		*30 - 110*

Lab Sample ID: MB 160-94658/1-A
Matrix: Solid
Analysis Batch: 96188

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94658

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.02330	U	1.00	0.0638	pCi/g		12/24/13 11:42	01/04/14 17:15	1
Thorium-230	0.06701	U	1.00	0.102	pCi/g		12/24/13 11:42	01/04/14 17:15	1
Thorium-232	-0.007532	U	1.00	0.0925	pCi/g		12/24/13 11:42	01/04/14 17:15	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*90.4*		*30 - 110*	*12/24/13 11:42*	*01/04/14 17:15*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-94658/2-A
Matrix: Solid
Analysis Batch: 96206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94658

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			24.5	24.80		2.55		0.228	pCi/g	101	81 - 118		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*85.6*		*30 - 110*

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 96208

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 94658

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230	0.759		2.15	3.183		0.454		0.0901	pCi/g	113	76 - 115		

Tracer	*MS %Yield*	*MS Qualifier*	*Limits*
Thorium-229	*88.3*		*30 - 110*

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 96210

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 94658

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Thorium-230	0.759		2.15	3.218		0.452		0.0846	pCi/g	114	76 - 115	0.04	1

Tracer	*MSD %Yield*	*MSD Qualifier*	*Limits*
Thorium-229	*94.5*		*30 - 110*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-92438/1-A
Matrix: Solid
Analysis Batch: 94846

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92438

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.0000	U	1.00	0.0381	pCi/g		12/16/13 15:38	12/26/13 16:50	1
Uranium-238	0.004454	U	1.00	0.0579	pCi/g		12/16/13 15:38	12/26/13 16:50	1
Uranium-233/234	0.04526	U	1.00	0.0580	pCi/g		12/16/13 15:38	12/26/13 16:50	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*92.8*		*30 - 110*	*12/16/13 15:38*	*12/26/13 16:50*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-92438/2-A
Matrix: Solid
Analysis Batch: 94847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92438

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.304	0.4216		0.153	0.0395	pCi/g	139	
Uranium-238	6.51	5.562		0.674	0.0601	pCi/g	85	82 - 122
Uranium-233/234	6.37	5.725		0.688	0.0482	pCi/g	90	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*90.4*		*30 - 110*

Lab Sample ID: 680-96439-2 MS
Matrix: Solid
Analysis Batch: 94883

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 92438

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-233/234	4.48		6.34	9.994		1.07	0.0566	pCi/g	87	70 - 130
Uranium-238	4.52		6.48	9.918		1.06	0.0619	pCi/g	83	70 - 130

Tracer	*MS %Yield*	*MS Qualifier*	*Limits*
Uranium-232	*83.1*		*30 - 110*

Lab Sample ID: 680-96439-2 MSD
Matrix: Solid
Analysis Batch: 94884

Client Sample ID: FM-SS-1_SS
Prep Type: Total/NA
Prep Batch: 92438

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Uranium-233/234	4.48		6.36	11.35		1.20	0.0353	pCi/g	108	70 - 130	0.60	1
Uranium-238	4.52		6.50	11.96		1.25	0.0667	pCi/g	114	70 - 130	0.88	1

Tracer	*MSD %Yield*	*MSD Qualifier*	*Limits*
Uranium-232	*80.7*		*30 - 110*

Lab Sample ID: MB 160-94660/1-A
Matrix: Solid
Analysis Batch: 96638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94660

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.01989	U	1.00	0.0787	pCi/g		12/24/13 11:42	01/07/14 21:32	1
Uranium-238	0.03122	U	1.00	0.0505	pCi/g		12/24/13 11:42	01/07/14 21:32	1
Uranium-233/234	0.03198	U	1.00	0.0757	pCi/g		12/24/13 11:42	01/07/14 21:32	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*83.3*		*30 - 110*	*12/24/13 11:42*	*01/07/14 21:32*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-94660/2-A
Matrix: Solid
Analysis Batch: 96206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94660

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.301	0.3931		0.218	0.190	pCi/g	130	
Uranium-238	6.46	6.812		0.958	0.189	pCi/g	105	82 - 122
Uranium-233/234	6.32	6.870		0.969	0.262	pCi/g	109	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*85.3*		*30 - 110*

Lab Sample ID: 680-96439-11 MS
Matrix: Solid
Analysis Batch: 96208

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 94660

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-233/234	0.709		3.18	4.071		0.559	0.120	pCi/g	106	70 - 130
Uranium-238	0.747		3.25	3.939		0.546	0.114	pCi/g	98	70 - 130

Tracer	*MS %Yield*	*MS Qualifier*	*Limits*
Uranium-232	*77.9*		*30 - 110*

Lab Sample ID: 680-96439-11 MSD
Matrix: Solid
Analysis Batch: 96210

Client Sample ID: BY-SS-3_SS
Prep Type: Total/NA
Prep Batch: 94660

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Uranium-233/234	0.709		3.17	4.373		0.595	0.101	pCi/g	115	70 - 130	0.26	1
Uranium-238	0.747		3.24	4.343		0.591	0.0757	pCi/g	111	70 - 130	0.36	1

Tracer	*MSD %Yield*	*MSD Qualifier*	*Limits*
Uranium-232	*76.7*		*30 - 110*

Lab Sample ID: MB 160-95550/1-A
Matrix: Water
Analysis Batch: 96193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95550

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.0000	U	1.00	0.0831	pCi/L		01/02/14 08:22	01/04/14 17:17	1
U-238	0.05968	U	1.00	0.158	pCi/L		01/02/14 08:22	01/04/14 17:17	1
Uranium-233/234	-0.01113	U	1.00	0.164	pCi/L		01/02/14 08:22	01/04/14 17:17	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*83.0*		*30 - 110*	*01/02/14 08:22*	*01/04/14 17:17*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-95550/2-A
Matrix: Water
Analysis Batch: 96194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95550

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.607	0.8261		0.328	0.140	pCi/L	136	
U-238	13.0	12.89		1.56	0.112	pCi/L	99	83 - 121
Uranium-233/234	12.7	12.07		1.49	0.183	pCi/L	95	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*76.7*		*30 - 110*

Lab Sample ID: LCSD 160-95550/3-A
Matrix: Water
Analysis Batch: 96196

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 95550

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Uranium-235/236	0.607	0.7357		0.305	0.155	pCi/L	121		0.14	1
U-238	13.0	12.35		1.50	0.124	pCi/L	95	83 - 121	0.18	1
Uranium-233/234	12.7	12.10		1.48	0.0720	pCi/L	95	84 - 120	0.01	1

Tracer	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Uranium-232	*78.0*		*30 - 110*

GC/MS Semi VOA

Prep Batch: 87577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	3510C	
LCS 160-87577/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 160-87577/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 160-87577/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 88803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-1	S17-SS-1_SS	Total/NA	Solid	3550C	
680-96439-4	FM-SS-2_SS	Total/NA	Solid	3550C	
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	3550C	
680-96439-6	FM-SS-3_SS	Total/NA	Solid	3550C	
680-96439-9	NS-SS-1_SS	Total/NA	Solid	3550C	
680-96439-10	NS-SS-5_SS	Total/NA	Solid	3550C	
680-96439-11	BY-SS-3_SS	Total/NA	Solid	3550C	
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	3550C	
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	3550C	
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	3550C	
680-96439-14	J2-SS-2_SS	Total/NA	Solid	3550C	
680-96439-16	S17-SS-2_SS	Total/NA	Solid	3550C	
LCS 160-88803/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 160-88803/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 88862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-87577/2-A	Lab Control Sample	Total/NA	Water	8270D	87577
LCSD 160-87577/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	87577
MB 160-87577/1-A	Method Blank	Total/NA	Water	8270D	87577

Analysis Batch: 89239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	8270D	87577

Analysis Batch: 89755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-1	S17-SS-1_SS	Total/NA	Solid	8270D	88803
680-96439-4	FM-SS-2_SS	Total/NA	Solid	8270D	88803
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	8270D	88803
680-96439-6	FM-SS-3_SS	Total/NA	Solid	8270D	88803
680-96439-9	NS-SS-1_SS	Total/NA	Solid	8270D	88803
680-96439-10	NS-SS-5_SS	Total/NA	Solid	8270D	88803
680-96439-11	BY-SS-3_SS	Total/NA	Solid	8270D	88803
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	8270D	88803
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	8270D	88803
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	8270D	88803
680-96439-14	J2-SS-2_SS	Total/NA	Solid	8270D	88803
680-96439-16	S17-SS-2_SS	Total/NA	Solid	8270D	88803
LCS 160-88803/2-A	Lab Control Sample	Total/NA	Solid	8270D	88803
MB 160-88803/1-A	Method Blank	Total/NA	Solid	8270D	88803

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Prep Batch: 31203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	8290	
LCS 320-31203/2-A	Lab Control Sample	Total/NA	Water	8290	
MB 320-31203/1-A	Method Blank	Total/NA	Water	8290	

Prep Batch: 31731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	HRMS-Sep	
LCS 320-31731/2-A	Lab Control Sample	Total/NA	Water	HRMS-Sep	
LCSD 320-31731/3-A	Lab Control Sample Dup	Total/NA	Water	HRMS-Sep	
MB 320-31731/1-A	Method Blank	Total/NA	Water	HRMS-Sep	

Prep Batch: 32158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-4 - RA	FM-SS-2_SS	Total/NA	Solid	8290	
680-96439-4	FM-SS-2_SS	Total/NA	Solid	8290	
680-96439-5 - RA	FM-SS-2_SS DUP	Total/NA	Solid	8290	
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	8290	
680-96439-6 - RA	FM-SS-3_SS	Total/NA	Solid	8290	
680-96439-6	FM-SS-3_SS	Total/NA	Solid	8290	
680-96439-6 - DL	FM-SS-3_SS	Total/NA	Solid	8290	
LCS 320-32158/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-32158/1-A	Method Blank	Total/NA	Solid	8290	

Prep Batch: 32172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-4	FM-SS-2_SS	Total/NA	Solid	HRMS-Sox	
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	HRMS-Sox	
680-96439-6	FM-SS-3_SS	Total/NA	Solid	HRMS-Sox	
LCS 320-32172/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-32172/1-A	Method Blank	Total/NA	Solid	8290	

Prep Batch: 32264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-1	S17-SS-1_SS	Total/NA	Solid	8290	
680-96439-1 - RA	S17-SS-1_SS	Total/NA	Solid	8290	
680-96439-9	NS-SS-1_SS	Total/NA	Solid	8290	
680-96439-9 - RADL	NS-SS-1_SS	Total/NA	Solid	8290	
680-96439-10 - RA	NS-SS-5_SS	Total/NA	Solid	8290	
680-96439-10	NS-SS-5_SS	Total/NA	Solid	8290	
680-96439-11 - RA	BY-SS-3_SS	Total/NA	Solid	8290	
680-96439-11	BY-SS-3_SS	Total/NA	Solid	8290	
680-96439-11 MS - RA	BY-SS-3_SS	Total/NA	Solid	8290	
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	8290	
680-96439-11 MSD - RA	BY-SS-3_SS	Total/NA	Solid	8290	
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	8290	
680-96439-12 - RA	BY-SS-3_SS DUP	Total/NA	Solid	8290	
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	8290	
680-96439-14 - RA	J2-SS-2_SS	Total/NA	Solid	8290	
680-96439-14	J2-SS-2_SS	Total/NA	Solid	8290	
680-96439-16	S17-SS-2_SS	Total/NA	Solid	8290	
680-96439-16 - RA	S17-SS-2_SS	Total/NA	Solid	8290	

Specialty Organics (Continued)

Prep Batch: 32264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-32264/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-32264/1-A	Method Blank	Total/NA	Solid	8290	

Prep Batch: 32277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-9 - DL	NS-SS-1_SS	Total/NA	Solid	HRMS-Sox	
680-96439-10	NS-SS-5_SS	Total/NA	Solid	HRMS-Sox	
680-96439-11 - RA	BY-SS-3_SS	Total/NA	Solid	HRMS-Sox	
680-96439-11 - DL	BY-SS-3_SS	Total/NA	Solid	HRMS-Sox	
680-96439-11 MS - DL	BY-SS-3_SS	Total/NA	Solid	HRMS-Sox	
680-96439-11 MS - RA	BY-SS-3_SS	Total/NA	Solid	HRMS-Sox	
680-96439-11 MSD - DL	BY-SS-3_SS	Total/NA	Solid	HRMS-Sox	
680-96439-11 MSD - RA	BY-SS-3_SS	Total/NA	Solid	HRMS-Sox	
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	HRMS-Sox	
680-96439-14	J2-SS-2_SS	Total/NA	Solid	HRMS-Sox	
680-96439-16	S17-SS-2_SS	Total/NA	Solid	HRMS-Sox	
LCS 320-32277/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-32277/1-A	Method Blank	Total/NA	Solid	8290	

Prep Batch: 32403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	HRMS-Sox	
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	HRMS-Sox	
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	HRMS-Sox	
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	HRMS-Sox	
680-96439-7	FM-SS-4_SS	Total/NA	Solid	HRMS-Sox	
680-96439-8	BY-SS-1_SS	Total/NA	Solid	HRMS-Sox	
680-96439-8 - DL	BY-SS-1_SS	Total/NA	Solid	HRMS-Sox	
680-96439-13	J2-SS-3_SS	Total/NA	Solid	HRMS-Sox	
680-96439-13 - DL	J2-SS-3_SS	Total/NA	Solid	HRMS-Sox	
680-96439-15	J2-SS-1_SS	Total/NA	Solid	HRMS-Sox	
LCS 320-32403/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
MB 320-32403/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	

Analysis Batch: 32760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	8290A	31203
LCS 320-31203/2-A	Lab Control Sample	Total/NA	Water	8290A	31203
MB 320-31203/1-A	Method Blank	Total/NA	Water	8290A	31203

Analysis Batch: 32972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-32403/2-A	Lab Control Sample	Total/NA	Solid	1668C	32403
MB 320-32403/1-A	Method Blank	Total/NA	Solid	1668C	32403

Analysis Batch: 33175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-31731/2-A	Lab Control Sample	Total/NA	Water	1668C	31731
LCSD 320-31731/3-A	Lab Control Sample Dup	Total/NA	Water	1668C	31731
MB 320-31731/1-A	Method Blank	Total/NA	Water	1668C	31731

Specialty Organics (Continued)

Analysis Batch: 33179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	1668C	31731

Analysis Batch: 33200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	1668C	32403
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	1668C	32403
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	1668C	32403
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	1668C	32403
680-96439-7	FM-SS-4_SS	Total/NA	Solid	1668C	32403

Analysis Batch: 33201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-8	BY-SS-1_SS	Total/NA	Solid	1668C	32403
680-96439-13	J2-SS-3_SS	Total/NA	Solid	1668C	32403
680-96439-15	J2-SS-1_SS	Total/NA	Solid	1668C	32403

Analysis Batch: 33441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-10	NS-SS-5_SS	Total/NA	Solid	8290A	32264
680-96439-11	BY-SS-3_SS	Total/NA	Solid	8290A	32264
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	8290A	32264
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	8290A	32264
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	8290A	32264
680-96439-14	J2-SS-2_SS	Total/NA	Solid	8290A	32264
680-96439-16	S17-SS-2_SS	Total/NA	Solid	8290A	32264
LCS 320-32264/2-A	Lab Control Sample	Total/NA	Solid	8290A	32264
MB 320-32264/1-A	Method Blank	Total/NA	Solid	8290A	32264

Analysis Batch: 33514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-1	S17-SS-1_SS	Total/NA	Solid	8290A	32264

Analysis Batch: 33651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-8 - DL	BY-SS-1_SS	Total/NA	Solid	1668C	32403
680-96439-13 - DL	J2-SS-3_SS	Total/NA	Solid	1668C	32403

Analysis Batch: 33806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-32172/2-A	Lab Control Sample	Total/NA	Solid	1668C	32172
MB 320-32172/1-A	Method Blank	Total/NA	Solid	1668C	32172

Analysis Batch: 33846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-10 - RA	NS-SS-5_SS	Total/NA	Solid	8290A	32264
680-96439-11 - RA	BY-SS-3_SS	Total/NA	Solid	8290A	32264
680-96439-11 MS - RA	BY-SS-3_SS	Total/NA	Solid	8290A	32264
680-96439-11 MSD - RA	BY-SS-3_SS	Total/NA	Solid	8290A	32264
680-96439-12 - RA	BY-SS-3_SS DUP	Total/NA	Solid	8290A	32264
680-96439-14 - RA	J2-SS-2_SS	Total/NA	Solid	8290A	32264

Specialty Organics (Continued)

Analysis Batch: 33854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-1 - RA	S17-SS-1_SS	Total/NA	Solid	8290A	32264
680-96439-9 - RADL	NS-SS-1_SS	Total/NA	Solid	8290A	32264
680-96439-16 - RA	S17-SS-2_SS	Total/NA	Solid	8290A	32264

Analysis Batch: 33905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-9	NS-SS-1_SS	Total/NA	Solid	8290A	32264

Analysis Batch: 33979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-4	FM-SS-2_SS	Total/NA	Solid	8290A	32158
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	8290A	32158
680-96439-6	FM-SS-3_SS	Total/NA	Solid	8290A	32158

Analysis Batch: 34091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-4 - RA	FM-SS-2_SS	Total/NA	Solid	8290A	32158
680-96439-5 - RA	FM-SS-2_SS DUP	Total/NA	Solid	8290A	32158
680-96439-6 - RA	FM-SS-3_SS	Total/NA	Solid	8290A	32158

Analysis Batch: 34120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-32158/2-A	Lab Control Sample	Total/NA	Solid	8290A	32158
MB 320-32158/1-A	Method Blank	Total/NA	Solid	8290A	32158

Analysis Batch: 34142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-4	FM-SS-2_SS	Total/NA	Solid	1668C	32172
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	1668C	32172
680-96439-6	FM-SS-3_SS	Total/NA	Solid	1668C	32172

Analysis Batch: 34144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-7 - DL	FM-SS-4_SS	Total/NA	Solid	1668C	34281

Analysis Batch: 34242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-32277/2-A	Lab Control Sample	Total/NA	Solid	1668C	32277
MB 320-32277/1-A	Method Blank	Total/NA	Solid	1668C	32277

Prep Batch: 34278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-7 - DL	FM-SS-4_SS	Total/NA	Solid	HRMS-Sox	
680-96439-15 - DL	J2-SS-1_SS	Total/NA	Solid	HRMS-Sox	

Dilution Batch: 34281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-7 - DL	FM-SS-4_SS	Total/NA	Solid	Dilution	34278
680-96439-15 - DL	J2-SS-1_SS	Total/NA	Solid	Dilution	34278

Specialty Organics (Continued)

Analysis Batch: 34287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-11 - DL	BY-SS-3_SS	Total/NA	Solid	1668C	32277
680-96439-11 MS - DL	BY-SS-3_SS	Total/NA	Solid	1668C	32277
680-96439-11 MSD - DL	BY-SS-3_SS	Total/NA	Solid	1668C	32277

Analysis Batch: 35018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-6 - DL	FM-SS-3_SS	Total/NA	Solid	8290A	32158

Analysis Batch: 35731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-11 - RA	BY-SS-3_SS	Total/NA	Solid	1668C	32277
680-96439-11 MS - RA	BY-SS-3_SS	Total/NA	Solid	1668C	32277
680-96439-11 MSD - RA	BY-SS-3_SS	Total/NA	Solid	1668C	32277

Analysis Batch: 35733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-9 - DL	NS-SS-1_SS	Total/NA	Solid	1668C	32277
680-96439-15 - DL	J2-SS-1_SS	Total/NA	Solid	1668C	34281

Analysis Batch: 35734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-14	J2-SS-2_SS	Total/NA	Solid	1668C	32277
680-96439-16	S17-SS-2_SS	Total/NA	Solid	1668C	32277

Analysis Batch: 35861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	1668C	32277

Analysis Batch: 35959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-10	NS-SS-5_SS	Total/NA	Solid	1668C	32277

Metals

Prep Batch: 87981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	7471B	
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	7471B	
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	7471B	
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	7471B	
680-96439-4	FM-SS-2_SS	Total/NA	Solid	7471B	
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	7471B	
680-96439-6	FM-SS-3_SS	Total/NA	Solid	7471B	
680-96439-7	FM-SS-4_SS	Total/NA	Solid	7471B	
680-96439-8	BY-SS-1_SS	Total/NA	Solid	7471B	
680-96439-9	NS-SS-1_SS	Total/NA	Solid	7471B	
680-96439-10	NS-SS-5_SS	Total/NA	Solid	7471B	
680-96439-11	BY-SS-3_SS	Total/NA	Solid	7471B	
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	7471B	
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 87981 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	7471B	
680-96439-13	J2-SS-3_SS	Total/NA	Solid	7471B	
680-96439-14	J2-SS-2_SS	Total/NA	Solid	7471B	
680-96439-15	J2-SS-1_SS	Total/NA	Solid	7471B	
680-96439-17	BY-SS-4_SS	Total/NA	Solid	7471B	
680-96439-18	NS-SS-4_SS	Total/NA	Solid	7471B	
680-96439-19	NS-SS-3_SS	Total/NA	Solid	7471B	
680-96439-20	NS-SS-2_SS	Total/NA	Solid	7471B	
680-96439-21	BY-SS-2_SS	Total/NA	Solid	7471B	
LCS 160-87981/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-87981/1-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 88412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	7470A	
LCS 160-88412/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 160-88412/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 88430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	7470A	88412
LCS 160-88412/2-A	Lab Control Sample	Total/NA	Water	7470A	88412
MB 160-88412/1-A	Method Blank	Total/NA	Water	7470A	88412

Analysis Batch: 88766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	7471B	87981
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	7471B	87981
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	7471B	87981
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	7471B	87981
680-96439-4	FM-SS-2_SS	Total/NA	Solid	7471B	87981
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	7471B	87981
680-96439-6	FM-SS-3_SS	Total/NA	Solid	7471B	87981
680-96439-7	FM-SS-4_SS	Total/NA	Solid	7471B	87981
680-96439-8	BY-SS-1_SS	Total/NA	Solid	7471B	87981
680-96439-9	NS-SS-1_SS	Total/NA	Solid	7471B	87981
680-96439-10	NS-SS-5_SS	Total/NA	Solid	7471B	87981
680-96439-11	BY-SS-3_SS	Total/NA	Solid	7471B	87981
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	7471B	87981
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	7471B	87981
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	7471B	87981
680-96439-13	J2-SS-3_SS	Total/NA	Solid	7471B	87981
680-96439-14	J2-SS-2_SS	Total/NA	Solid	7471B	87981
680-96439-15	J2-SS-1_SS	Total/NA	Solid	7471B	87981
680-96439-17	BY-SS-4_SS	Total/NA	Solid	7471B	87981
680-96439-18	NS-SS-4_SS	Total/NA	Solid	7471B	87981
680-96439-19	NS-SS-3_SS	Total/NA	Solid	7471B	87981
680-96439-20	NS-SS-2_SS	Total/NA	Solid	7471B	87981
680-96439-21	BY-SS-2_SS	Total/NA	Solid	7471B	87981
LCS 160-87981/2-A	Lab Control Sample	Total/NA	Solid	7471B	87981
MB 160-87981/1-A	Method Blank	Total/NA	Solid	7471B	87981

Metals (Continued)

Prep Batch: 89165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	3050B	
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	3050B	
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	3050B	
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	3050B	
680-96439-4	FM-SS-2_SS	Total/NA	Solid	3050B	
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	3050B	
680-96439-6	FM-SS-3_SS	Total/NA	Solid	3050B	
680-96439-7	FM-SS-4_SS	Total/NA	Solid	3050B	
680-96439-8	BY-SS-1_SS	Total/NA	Solid	3050B	
680-96439-9	NS-SS-1_SS	Total/NA	Solid	3050B	
680-96439-10	NS-SS-5_SS	Total/NA	Solid	3050B	
680-96439-11	BY-SS-3_SS	Total/NA	Solid	3050B	
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	3050B	
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	3050B	
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	3050B	
680-96439-13	J2-SS-3_SS	Total/NA	Solid	3050B	
680-96439-14	J2-SS-2_SS	Total/NA	Solid	3050B	
680-96439-15	J2-SS-1_SS	Total/NA	Solid	3050B	
680-96439-17	BY-SS-4_SS	Total/NA	Solid	3050B	
680-96439-18	NS-SS-4_SS	Total/NA	Solid	3050B	
680-96439-19	NS-SS-3_SS	Total/NA	Solid	3050B	
680-96439-20	NS-SS-2_SS	Total/NA	Solid	3050B	
LCS 160-89165/25-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 160-89165/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-89165/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 89170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-21	BY-SS-2_SS	Total/NA	Solid	3050B	
LCS 160-89170/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-89170/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 89178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-21	BY-SS-2_SS	Total/NA	Solid	3050B	
LCS 160-89178/12-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 160-89178/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-89178/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 89180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	3050B	
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	3050B	
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	3050B	
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	3050B	
680-96439-4	FM-SS-2_SS	Total/NA	Solid	3050B	
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	3050B	
680-96439-6	FM-SS-3_SS	Total/NA	Solid	3050B	
680-96439-7	FM-SS-4_SS	Total/NA	Solid	3050B	
680-96439-8	BY-SS-1_SS	Total/NA	Solid	3050B	
680-96439-9	NS-SS-1_SS	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 89180 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-10	NS-SS-5_SS	Total/NA	Solid	3050B	
680-96439-11	BY-SS-3_SS	Total/NA	Solid	3050B	
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	3050B	
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	3050B	
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	3050B	
680-96439-13	J2-SS-3_SS	Total/NA	Solid	3050B	
680-96439-14	J2-SS-2_SS	Total/NA	Solid	3050B	
680-96439-15	J2-SS-1_SS	Total/NA	Solid	3050B	
680-96439-17	BY-SS-4_SS	Total/NA	Solid	3050B	
680-96439-18	NS-SS-4_SS	Total/NA	Solid	3050B	
680-96439-19	NS-SS-3_SS	Total/NA	Solid	3050B	
680-96439-20	NS-SS-2_SS	Total/NA	Solid	3050B	
LCS 160-89180/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-89180/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 89663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-21	BY-SS-2_SS	Total/NA	Solid	6010C	89170
LCS 160-89170/2-A	Lab Control Sample	Total/NA	Solid	6010C	89170
MB 160-89170/1-A	Method Blank	Total/NA	Solid	6010C	89170

Analysis Batch: 91064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-21	BY-SS-2_SS	Total/NA	Solid	6010C	89170
LCS 160-89170/2-A	Lab Control Sample	Total/NA	Solid	6010C	89170
MB 160-89170/1-A	Method Blank	Total/NA	Solid	6010C	89170

Prep Batch: 92863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	3010A	
680-96439-22 MS	RINSATE	Total/NA	Water	3010A	
680-96439-22 MSD	RINSATE	Total/NA	Water	3010A	
LCS 160-92863/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-92863/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 92865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	3010A	
LCS 160-92865/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-92865/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 94290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	6010C	92863
680-96439-22 MS	RINSATE	Total/NA	Water	6010C	92863
680-96439-22 MSD	RINSATE	Total/NA	Water	6010C	92863
LCS 160-92863/2-A	Lab Control Sample	Total/NA	Water	6010C	92863
MB 160-92863/1-A	Method Blank	Total/NA	Water	6010C	92863

Metals (Continued)

Analysis Batch: 94701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-21	BY-SS-2_SS	Total/NA	Solid	6020A	89178
LCS 160-89178/12-A	Lab Control Sample	Total/NA	Solid	6020A	89178
LCS 160-89178/2-A	Lab Control Sample	Total/NA	Solid	6020A	89178
MB 160-89178/1-A	Method Blank	Total/NA	Solid	6020A	89178

Analysis Batch: 94703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-92865/2-A	Lab Control Sample	Total/NA	Water	6020A	92865
MB 160-92865/1-A	Method Blank	Total/NA	Water	6020A	92865

Analysis Batch: 94704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	6020A	89165
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	6020A	89165
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	6020A	89165
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	6020A	89165
680-96439-4	FM-SS-2_SS	Total/NA	Solid	6020A	89165
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	6020A	89165
680-96439-6	FM-SS-3_SS	Total/NA	Solid	6020A	89165
680-96439-7	FM-SS-4_SS	Total/NA	Solid	6020A	89165
680-96439-8	BY-SS-1_SS	Total/NA	Solid	6020A	89165
680-96439-9	NS-SS-1_SS	Total/NA	Solid	6020A	89165
680-96439-10	NS-SS-5_SS	Total/NA	Solid	6020A	89165
680-96439-11	BY-SS-3_SS	Total/NA	Solid	6020A	89165
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	6020A	89165
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	6020A	89165
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	6020A	89165
680-96439-13	J2-SS-3_SS	Total/NA	Solid	6020A	89165
680-96439-14	J2-SS-2_SS	Total/NA	Solid	6020A	89165
680-96439-15	J2-SS-1_SS	Total/NA	Solid	6020A	89165
680-96439-17	BY-SS-4_SS	Total/NA	Solid	6020A	89165
680-96439-18	NS-SS-4_SS	Total/NA	Solid	6020A	89165
680-96439-19	NS-SS-3_SS	Total/NA	Solid	6020A	89165
680-96439-20	NS-SS-2_SS	Total/NA	Solid	6020A	89165
LCS 160-89165/25-A	Lab Control Sample	Total/NA	Solid	6020A	89165
LCS 160-89165/2-A	Lab Control Sample	Total/NA	Solid	6020A	89165
MB 160-89165/1-A	Method Blank	Total/NA	Solid	6020A	89165

Analysis Batch: 94960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-6	FM-SS-3_SS	Total/NA	Solid	6020A	89165
680-96439-14	J2-SS-2_SS	Total/NA	Solid	6020A	89165
680-96439-15	J2-SS-1_SS	Total/NA	Solid	6020A	89165
680-96439-17	BY-SS-4_SS	Total/NA	Solid	6020A	89165
680-96439-18	NS-SS-4_SS	Total/NA	Solid	6020A	89165
680-96439-19	NS-SS-3_SS	Total/NA	Solid	6020A	89165
680-96439-20	NS-SS-2_SS	Total/NA	Solid	6020A	89165

Analysis Batch: 94961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	6020A	92865

Metals (Continued)

Analysis Batch: 95650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	6010C	89180
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	6010C	89180
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	6010C	89180
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	6010C	89180
680-96439-4	FM-SS-2_SS	Total/NA	Solid	6010C	89180
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	6010C	89180
680-96439-6	FM-SS-3_SS	Total/NA	Solid	6010C	89180
680-96439-7	FM-SS-4_SS	Total/NA	Solid	6010C	89180
680-96439-8	BY-SS-1_SS	Total/NA	Solid	6010C	89180
680-96439-9	NS-SS-1_SS	Total/NA	Solid	6010C	89180
680-96439-10	NS-SS-5_SS	Total/NA	Solid	6010C	89180
680-96439-11	BY-SS-3_SS	Total/NA	Solid	6010C	89180
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	6010C	89180
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	6010C	89180
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	6010C	89180
680-96439-13	J2-SS-3_SS	Total/NA	Solid	6010C	89180
680-96439-14	J2-SS-2_SS	Total/NA	Solid	6010C	89180
680-96439-15	J2-SS-1_SS	Total/NA	Solid	6010C	89180
680-96439-17	BY-SS-4_SS	Total/NA	Solid	6010C	89180
680-96439-18	NS-SS-4_SS	Total/NA	Solid	6010C	89180
680-96439-19	NS-SS-3_SS	Total/NA	Solid	6010C	89180
680-96439-20	NS-SS-2_SS	Total/NA	Solid	6010C	89180
LCS 160-89180/2-A	Lab Control Sample	Total/NA	Solid	6010C	89180
MB 160-89180/1-A	Method Blank	Total/NA	Solid	6010C	89180

General Chemistry

Analysis Batch: 87587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-1	S17-SS-1_SS	Total/NA	Solid	Moisture	
680-96439-2	FM-SS-1_SS	Total/NA	Solid	Moisture	
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	Moisture	
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	Moisture	
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	Moisture	
680-96439-4	FM-SS-2_SS	Total/NA	Solid	Moisture	
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	Moisture	
680-96439-6	FM-SS-3_SS	Total/NA	Solid	Moisture	
680-96439-7	FM-SS-4_SS	Total/NA	Solid	Moisture	
680-96439-8	BY-SS-1_SS	Total/NA	Solid	Moisture	
680-96439-9	NS-SS-1_SS	Total/NA	Solid	Moisture	
680-96439-10	NS-SS-5_SS	Total/NA	Solid	Moisture	
680-96439-11	BY-SS-3_SS	Total/NA	Solid	Moisture	
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	Moisture	
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	Moisture	
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	Moisture	
680-96439-13	J2-SS-3_SS	Total/NA	Solid	Moisture	
680-96439-14	J2-SS-2_SS	Total/NA	Solid	Moisture	
680-96439-15	J2-SS-1_SS	Total/NA	Solid	Moisture	
680-96439-16	S17-SS-2_SS	Total/NA	Solid	Moisture	
680-96439-17	BY-SS-4_SS	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 87587 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-18	NS-SS-4_SS	Total/NA	Solid	Moisture	
680-96439-19	NS-SS-3_SS	Total/NA	Solid	Moisture	
680-96439-20	NS-SS-2_SS	Total/NA	Solid	Moisture	
680-96439-21	BY-SS-2_SS	Total/NA	Solid	Moisture	
680-96439-21 DU	BY-SS-2_SS	Total/NA	Solid	Moisture	

Analysis Batch: 88451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	300.0	
LCS 160-88451/11	Lab Control Sample	Total/NA	Water	300.0	
MB 160-88451/10	Method Blank	Total/NA	Water	300.0	

Leach Batch: 90489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-2 - DL2	FM-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-2 - DL	FM-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-2 MS - DL	FM-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-2 MS - DL2	FM-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-2 MS	FM-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-2 MSD - DL2	FM-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-2 MSD - DL	FM-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-2 MSD	FM-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-3	FM-SS-1_SS DUP	Soluble	Solid	DI Leach	
680-96439-3 - DL	FM-SS-1_SS DUP	Soluble	Solid	DI Leach	
680-96439-4 - DL2	FM-SS-2_SS	Soluble	Solid	DI Leach	
680-96439-4	FM-SS-2_SS	Soluble	Solid	DI Leach	
680-96439-4 - DL	FM-SS-2_SS	Soluble	Solid	DI Leach	
680-96439-5 - DL	FM-SS-2_SS DUP	Soluble	Solid	DI Leach	
680-96439-5	FM-SS-2_SS DUP	Soluble	Solid	DI Leach	
680-96439-6 - DL2	FM-SS-3_SS	Soluble	Solid	DI Leach	
680-96439-6	FM-SS-3_SS	Soluble	Solid	DI Leach	
680-96439-6 - DL	FM-SS-3_SS	Soluble	Solid	DI Leach	
680-96439-7	FM-SS-4_SS	Soluble	Solid	DI Leach	
680-96439-7 - DL2	FM-SS-4_SS	Soluble	Solid	DI Leach	
680-96439-7 - DL	FM-SS-4_SS	Soluble	Solid	DI Leach	
680-96439-8 - DL	BY-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-8 - DL2	BY-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-9	NS-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-9 - DL	NS-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-10	NS-SS-5_SS	Soluble	Solid	DI Leach	
680-96439-11 - DL2	BY-SS-3_SS	Soluble	Solid	DI Leach	
680-96439-11 - DL	BY-SS-3_SS	Soluble	Solid	DI Leach	
680-96439-11 MS - DL	BY-SS-3_SS	Soluble	Solid	DI Leach	
680-96439-11 MS - DL2	BY-SS-3_SS	Soluble	Solid	DI Leach	
680-96439-11 MSD - DL2	BY-SS-3_SS	Soluble	Solid	DI Leach	
680-96439-11 MSD - DL	BY-SS-3_SS	Soluble	Solid	DI Leach	
680-96439-12 - DL2	BY-SS-3_SS DUP	Soluble	Solid	DI Leach	
680-96439-12 - DL	BY-SS-3_SS DUP	Soluble	Solid	DI Leach	
680-96439-13 - DL2	J2-SS-3_SS	Soluble	Solid	DI Leach	
680-96439-13 - DL	J2-SS-3_SS	Soluble	Solid	DI Leach	

General Chemistry (Continued)

Leach Batch: 90489 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-14 - DL	J2-SS-2_SS	Soluble	Solid	DI Leach	
680-96439-14 - DL2	J2-SS-2_SS	Soluble	Solid	DI Leach	
680-96439-14	J2-SS-2_SS	Soluble	Solid	DI Leach	
680-96439-15 - DL2	J2-SS-1_SS	Soluble	Solid	DI Leach	
680-96439-15 - DL	J2-SS-1_SS	Soluble	Solid	DI Leach	
LCS 160-90489/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 160-90489/1-A	Method Blank	Soluble	Solid	DI Leach	

Leach Batch: 92856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-17 - DL2	BY-SS-4_SS	Soluble	Solid	DI Leach	
680-96439-17 - DL	BY-SS-4_SS	Soluble	Solid	DI Leach	
680-96439-17	BY-SS-4_SS	Soluble	Solid	DI Leach	
680-96439-21 - DL3	BY-SS-2_SS	Soluble	Solid	DI Leach	
680-96439-21 - DL	BY-SS-2_SS	Soluble	Solid	DI Leach	
680-96439-21 - DL2	BY-SS-2_SS	Soluble	Solid	DI Leach	
LCS 160-92856/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 160-92856/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 93481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2 - DL2	FM-SS-1_SS	Soluble	Solid	300.0	90489
680-96439-2 MS - DL2	FM-SS-1_SS	Soluble	Solid	300.0	90489
680-96439-2 MSD - DL2	FM-SS-1_SS	Soluble	Solid	300.0	90489
680-96439-3 - DL	FM-SS-1_SS DUP	Soluble	Solid	300.0	90489
680-96439-4 - DL	FM-SS-2_SS	Soluble	Solid	300.0	90489
680-96439-4 - DL2	FM-SS-2_SS	Soluble	Solid	300.0	90489
680-96439-5 - DL	FM-SS-2_SS DUP	Soluble	Solid	300.0	90489
680-96439-6 - DL2	FM-SS-3_SS	Soluble	Solid	300.0	90489
680-96439-7 - DL	FM-SS-4_SS	Soluble	Solid	300.0	90489
680-96439-7 - DL2	FM-SS-4_SS	Soluble	Solid	300.0	90489
680-96439-8 - DL2	BY-SS-1_SS	Soluble	Solid	300.0	90489
680-96439-9 - DL	NS-SS-1_SS	Soluble	Solid	300.0	90489
680-96439-10	NS-SS-5_SS	Soluble	Solid	300.0	90489
680-96439-11 - DL2	BY-SS-3_SS	Soluble	Solid	300.0	90489
680-96439-11 MS - DL2	BY-SS-3_SS	Soluble	Solid	300.0	90489
680-96439-11 MSD - DL2	BY-SS-3_SS	Soluble	Solid	300.0	90489
680-96439-12 - DL2	BY-SS-3_SS DUP	Soluble	Solid	300.0	90489
680-96439-13 - DL2	J2-SS-3_SS	Soluble	Solid	300.0	90489
680-96439-14 - DL2	J2-SS-2_SS	Soluble	Solid	300.0	90489
680-96439-15 - DL2	J2-SS-1_SS	Soluble	Solid	300.0	90489
LCS 160-90489/2-A	Lab Control Sample	Soluble	Solid	300.0	90489
MB 160-90489/1-A	Method Blank	Soluble	Solid	300.0	90489

Analysis Batch: 93483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Soluble	Solid	300.0	90489
680-96439-2 - DL	FM-SS-1_SS	Soluble	Solid	300.0	90489
680-96439-2 MS	FM-SS-1_SS	Soluble	Solid	300.0	90489
680-96439-2 MS - DL	FM-SS-1_SS	Soluble	Solid	300.0	90489
680-96439-2 MSD	FM-SS-1_SS	Soluble	Solid	300.0	90489

General Chemistry (Continued)

Analysis Batch: 93483 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2 MSD - DL	FM-SS-1_SS	Soluble	Solid	300.0	90489
680-96439-3	FM-SS-1_SS DUP	Soluble	Solid	300.0	90489
680-96439-4	FM-SS-2_SS	Soluble	Solid	300.0	90489
680-96439-5	FM-SS-2_SS DUP	Soluble	Solid	300.0	90489
680-96439-5 - DL	FM-SS-2_SS DUP	Soluble	Solid	300.0	90489
680-96439-6	FM-SS-3_SS	Soluble	Solid	300.0	90489
680-96439-6 - DL	FM-SS-3_SS	Soluble	Solid	300.0	90489
680-96439-7	FM-SS-4_SS	Soluble	Solid	300.0	90489
680-96439-8 - DL	BY-SS-1_SS	Soluble	Solid	300.0	90489
680-96439-9	NS-SS-1_SS	Soluble	Solid	300.0	90489
680-96439-10	NS-SS-5_SS	Soluble	Solid	300.0	90489
680-96439-11 - DL	BY-SS-3_SS	Soluble	Solid	300.0	90489
680-96439-11 MS - DL	BY-SS-3_SS	Soluble	Solid	300.0	90489
680-96439-11 MSD - DL	BY-SS-3_SS	Soluble	Solid	300.0	90489
680-96439-12 - DL	BY-SS-3_SS DUP	Soluble	Solid	300.0	90489
680-96439-13 - DL	J2-SS-3_SS	Soluble	Solid	300.0	90489
680-96439-14	J2-SS-2_SS	Soluble	Solid	300.0	90489
680-96439-14 - DL	J2-SS-2_SS	Soluble	Solid	300.0	90489
680-96439-15 - DL	J2-SS-1_SS	Soluble	Solid	300.0	90489
LCS 160-90489/2-A	Lab Control Sample	Soluble	Solid	300.0	90489
MB 160-90489/1-A	Method Blank	Soluble	Solid	300.0	90489

Analysis Batch: 94320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-17	BY-SS-4_SS	Soluble	Solid	300.0	92856
680-96439-17 - DL	BY-SS-4_SS	Soluble	Solid	300.0	92856
680-96439-17 - DL2	BY-SS-4_SS	Soluble	Solid	300.0	92856
680-96439-21 - DL	BY-SS-2_SS	Soluble	Solid	300.0	92856
680-96439-21 - DL2	BY-SS-2_SS	Soluble	Solid	300.0	92856
680-96439-21 - DL3	BY-SS-2_SS	Soluble	Solid	300.0	92856
LCS 160-92856/2-A	Lab Control Sample	Soluble	Solid	300.0	92856
MB 160-92856/1-A	Method Blank	Soluble	Solid	300.0	92856

Rad

Leach Batch: 87562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	Dry and Grind	
680-96439-2 DU	FM-SS-1_SS	Total/NA	Solid	Dry and Grind	
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	Dry and Grind	
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	Dry and Grind	
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	Dry and Grind	
680-96439-4	FM-SS-2_SS	Total/NA	Solid	Dry and Grind	
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	Dry and Grind	
680-96439-6	FM-SS-3_SS	Total/NA	Solid	Dry and Grind	
680-96439-7	FM-SS-4_SS	Total/NA	Solid	Dry and Grind	
680-96439-9	NS-SS-1_SS	Total/NA	Solid	Dry and Grind	
680-96439-10	NS-SS-5_SS	Total/NA	Solid	Dry and Grind	
680-96439-11	BY-SS-3_SS	Total/NA	Solid	Dry and Grind	
680-96439-11 DU	BY-SS-3_SS	Total/NA	Solid	Dry and Grind	

Rad (Continued)

Leach Batch: 87562 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	Dry and Grind	
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	Dry and Grind	
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	Dry and Grind	
680-96439-14	J2-SS-2_SS	Total/NA	Solid	Dry and Grind	

Prep Batch: 87734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	PrecSep-21	
680-96439-22 DU	RINSATE	Total/NA	Water	PrecSep-21	
LCS 160-87734/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
MB 160-87734/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Prep Batch: 87736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	PrecSep_0	
680-96439-22 DU	RINSATE	Total/NA	Water	PrecSep_0	
LCS 160-87736/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-87736/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Prep Batch: 88153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	DPS-21	87562
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	DPS-21	87562
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	DPS-21	87562
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	DPS-21	87562
680-96439-4	FM-SS-2_SS	Total/NA	Solid	DPS-21	87562
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	DPS-21	87562
680-96439-6	FM-SS-3_SS	Total/NA	Solid	DPS-21	87562
680-96439-7	FM-SS-4_SS	Total/NA	Solid	DPS-21	87562
680-96439-9	NS-SS-1_SS	Total/NA	Solid	DPS-21	87562
680-96439-10	NS-SS-5_SS	Total/NA	Solid	DPS-21	87562
680-96439-11	BY-SS-3_SS	Total/NA	Solid	DPS-21	87562
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	DPS-21	87562
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	DPS-21	87562
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	DPS-21	87562
680-96439-14	J2-SS-2_SS	Total/NA	Solid	DPS-21	87562
LCS 160-88153/2-A	Lab Control Sample	Total/NA	Solid	DPS-21	
MB 160-88153/1-A	Method Blank	Total/NA	Solid	DPS-21	

Prep Batch: 88159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	DPS-0	87562
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	DPS-0	87562
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	DPS-0	87562
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	DPS-0	87562
680-96439-4	FM-SS-2_SS	Total/NA	Solid	DPS-0	87562
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	DPS-0	87562
680-96439-6	FM-SS-3_SS	Total/NA	Solid	DPS-0	87562
680-96439-7	FM-SS-4_SS	Total/NA	Solid	DPS-0	87562
680-96439-9	NS-SS-1_SS	Total/NA	Solid	DPS-0	87562
680-96439-10	NS-SS-5_SS	Total/NA	Solid	DPS-0	87562

Rad (Continued)

Prep Batch: 88159 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-11	BY-SS-3_SS	Total/NA	Solid	DPS-0	87562
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	DPS-0	87562
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	DPS-0	87562
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	DPS-0	87562
680-96439-14	J2-SS-2_SS	Total/NA	Solid	DPS-0	87562
LCS 160-88159/2-A	Lab Control Sample	Total/NA	Solid	DPS-0	
MB 160-88159/1-A	Method Blank	Total/NA	Solid	DPS-0	

Prep Batch: 88180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	Fill_Geo-21	87562
680-96439-2 DU	FM-SS-1_SS	Total/NA	Solid	Fill_Geo-21	87562
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	Fill_Geo-21	87562
680-96439-4	FM-SS-2_SS	Total/NA	Solid	Fill_Geo-21	87562
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	Fill_Geo-21	87562
680-96439-6	FM-SS-3_SS	Total/NA	Solid	Fill_Geo-21	87562
680-96439-7	FM-SS-4_SS	Total/NA	Solid	Fill_Geo-21	87562
680-96439-9	NS-SS-1_SS	Total/NA	Solid	Fill_Geo-21	87562
680-96439-10	NS-SS-5_SS	Total/NA	Solid	Fill_Geo-21	87562
680-96439-11	BY-SS-3_SS	Total/NA	Solid	Fill_Geo-21	87562
680-96439-11 DU	BY-SS-3_SS	Total/NA	Solid	Fill_Geo-21	87562
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	Fill_Geo-21	87562
680-96439-14	J2-SS-2_SS	Total/NA	Solid	Fill_Geo-21	87562
LCS 160-88180/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-88180/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Prep Batch: 90469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	Fill_Geo-21	
680-96439-22 DU	RINSATE	Total/NA	Water	Fill_Geo-21	
LCS 160-90469/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-21	
MB 160-90469/1-A	Method Blank	Total/NA	Water	Fill_Geo-21	

Prep Batch: 92428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	ExtChrom	87562
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	ExtChrom	87562
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	ExtChrom	87562
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	ExtChrom	87562
680-96439-4	FM-SS-2_SS	Total/NA	Solid	ExtChrom	87562
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	ExtChrom	87562
680-96439-6	FM-SS-3_SS	Total/NA	Solid	ExtChrom	87562
680-96439-7	FM-SS-4_SS	Total/NA	Solid	ExtChrom	87562
680-96439-9	NS-SS-1_SS	Total/NA	Solid	ExtChrom	87562
680-96439-10	NS-SS-5_SS	Total/NA	Solid	ExtChrom	87562
LCS 160-92428/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-92428/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 92438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	ExtChrom	87562

Rad (Continued)

Prep Batch: 92438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2 MS	FM-SS-1_SS	Total/NA	Solid	ExtChrom	87562
680-96439-2 MSD	FM-SS-1_SS	Total/NA	Solid	ExtChrom	87562
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	ExtChrom	87562
680-96439-4	FM-SS-2_SS	Total/NA	Solid	ExtChrom	87562
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	ExtChrom	87562
680-96439-6	FM-SS-3_SS	Total/NA	Solid	ExtChrom	87562
680-96439-7	FM-SS-4_SS	Total/NA	Solid	ExtChrom	87562
680-96439-9	NS-SS-1_SS	Total/NA	Solid	ExtChrom	87562
680-96439-10	NS-SS-5_SS	Total/NA	Solid	ExtChrom	87562
LCS 160-92438/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-92438/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 94280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-2	FM-SS-1_SS	Total/NA	Solid	Thin_Layer	87562
680-96439-2 DU	FM-SS-1_SS	Total/NA	Solid	Thin_Layer	87562
680-96439-3	FM-SS-1_SS DUP	Total/NA	Solid	Thin_Layer	87562
680-96439-4	FM-SS-2_SS	Total/NA	Solid	Thin_Layer	87562
680-96439-5	FM-SS-2_SS DUP	Total/NA	Solid	Thin_Layer	87562
680-96439-6	FM-SS-3_SS	Total/NA	Solid	Thin_Layer	87562
680-96439-7	FM-SS-4_SS	Total/NA	Solid	Thin_Layer	87562
680-96439-9	NS-SS-1_SS	Total/NA	Solid	Thin_Layer	87562
680-96439-10	NS-SS-5_SS	Total/NA	Solid	Thin_Layer	87562
680-96439-11	BY-SS-3_SS	Total/NA	Solid	Thin_Layer	87562
680-96439-11 DU	BY-SS-3_SS	Total/NA	Solid	Thin_Layer	87562
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	Thin_Layer	87562
680-96439-14	J2-SS-2_SS	Total/NA	Solid	Thin_Layer	87562
LCS 160-94280/2-A	Lab Control Sample	Total/NA	Solid	Thin_Layer	
MB 160-94280/1-A	Method Blank	Total/NA	Solid	Thin_Layer	

Prep Batch: 94524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-94524/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
MB 160-94524/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 94658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-11	BY-SS-3_SS	Total/NA	Solid	ExtChrom	87562
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	ExtChrom	87562
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	ExtChrom	87562
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	ExtChrom	87562
680-96439-14	J2-SS-2_SS	Total/NA	Solid	ExtChrom	87562
LCS 160-94658/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-94658/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 94660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-11	BY-SS-3_SS	Total/NA	Solid	ExtChrom	87562
680-96439-11 MS	BY-SS-3_SS	Total/NA	Solid	ExtChrom	87562
680-96439-11 MSD	BY-SS-3_SS	Total/NA	Solid	ExtChrom	87562

Rad (Continued)

Prep Batch: 94660 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-12	BY-SS-3_SS DUP	Total/NA	Solid	ExtChrom	87562
680-96439-14	J2-SS-2_SS	Total/NA	Solid	ExtChrom	87562
LCS 160-94660/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-94660/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 95023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	Evaporation	
LCS 160-95023/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-95023/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-95023/1-A	Method Blank	Total/NA	Water	Evaporation	

Prep Batch: 95550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96439-22	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-95550/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-95550/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-95550/1-A	Method Blank	Total/NA	Water	ExtChrom	

Client Sample ID: S17-SS-1_SS

Lab Sample ID: 680-96439-1

Date Collected: 11/21/13 12:30

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.15 g	1 mL	88803	12/02/13 12:17	CNS	TAL SL
Total/NA	Analysis	8270D		1	30.15 g	1 mL	89755	12/03/13 22:09	JSW	TAL SL
	Instrument ID: MSI									
Total/NA	Prep	8290			10.02 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A		1	10.02 g	40 uL	33514	01/08/14 11:28	JRB	TAL SAC
	Instrument ID: 3D5									
Total/NA	Prep	8290	RA		10.02 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A	RA	1	10.02 g	40 uL	33854	01/14/14 03:42	JRB	TAL SAC
	Instrument ID: 5D2									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									

Client Sample ID: FM-SS-1_SS

Lab Sample ID: 680-96439-2

Date Collected: 11/20/13 12:30

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			5.16 g	20 uL	32403	12/21/13 12:08	GDB	TAL SAC
Total/NA	Analysis	1668C		1	5.16 g	20 uL	33200	01/05/14 00:55	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	3050B			0.5892 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5892 g	50 mL	95650	12/31/13 20:46	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5892 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5892 g	50 mL	94704	12/25/13 09:48	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6455 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6455 g	100 mL	88766	11/27/13 14:31	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach			3.9823 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	93483	12/09/13 19:35	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		3.9823 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	93483	12/09/13 19:49	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		3.9823 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	5 mL	5 mL	93481	12/10/13 14:27	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Thin_Layer			0.0888 g	1.0 g	94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.0888 g		94286	12/23/13 18:51	MLK	TAL SL
	Instrument ID: GFPCPURPLE									

Client Sample ID: FM-SS-1_SS

Lab Sample ID: 680-96439-2

Date Collected: 11/20/13 12:30

Matrix: Solid

Date Received: 11/22/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			426.9 g	1.0 g	88180	11/26/13 14:40	LEM	TAL SL
Total/NA	Analysis	901.1		1	426.9 g		92845	12/18/13 19:17	EMN	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0094 g	1.0 g	88153	11/26/13 13:36	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0094 g		94684	12/24/13 07:58	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-0			1.0094 g	1.0 g	88159	11/26/13 14:00	RLS	TAL SL
Total/NA	Analysis	904.0		1	1.0094 g		93801	12/20/13 12:25	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0036 g	1.0 mL	92438	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0036 g		94882	12/26/13 16:51	MLK	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0036 g	1.0 mL	92428	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0036 g		95231	12/27/13 20:54	MLK	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: FM-SS-1_SS DUP

Lab Sample ID: 680-96439-3

Date Collected: 11/20/13 12:30

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			5.12 g	20 uL	32403	12/21/13 12:08	GDB	TAL SAC
Total/NA	Analysis	1668C		1	5.12 g	20 uL	33200	01/05/14 04:41	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	3050B			0.5497 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5497 g	50 mL	95650	12/31/13 21:01	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5497 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5497 g	50 mL	94704	12/25/13 10:15	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6488 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6488 g	100 mL	88766	11/27/13 14:42	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach			3.9914 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	93483	12/09/13 21:30	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		3.9914 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL	100	5 mL	5 mL	93481	12/10/13 15:39	AMF	TAL SL
	Instrument ID: IC2500									

Client Sample ID: FM-SS-1_SS DUP

Lab Sample ID: 680-96439-3

Date Collected: 11/20/13 12:30

Matrix: Solid

Date Received: 11/22/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Thin_Layer			0.0923 g	1.0 g	94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.0923 g		94286	12/23/13 18:51	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			411.4 g	1.0 g	88180	11/26/13 14:40	LEM	TAL SL
Total/NA	Analysis	901.1		1	411.4 g		92822	12/18/13 19:18	EMN	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0003 g	1.0 g	88153	11/26/13 13:36	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0003 g		94684	12/24/13 07:59	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-0			1.0003 g	1.0 g	88159	11/26/13 14:00	RLS	TAL SL
Total/NA	Analysis	904.0		1	1.0003 g		93801	12/20/13 12:26	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0004 g	1.0 mL	92438	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0004 g		94885	12/26/13 16:51	MLK	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0004 g	1.0 mL	92428	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0004 g		95241	12/27/13 20:54	MLK	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: FM-SS-2_SS

Lab Sample ID: 680-96439-4

Date Collected: 11/20/13 12:00

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.22 g	1 mL	88803	12/02/13 12:17	CNS	TAL SL
Total/NA	Analysis	8270D		1	30.22 g	1 mL	89755	12/03/13 22:42	JSW	TAL SL
	Instrument ID: MSI									
Total/NA	Prep	HRMS-Sox			10.13 g	40 uL	32172	12/18/13 16:10	GDB	TAL SAC
Total/NA	Analysis	1668C		20	10.13 g	40 uL	34142	01/18/14 18:42	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	8290	RA		10.13 g	40 uL	32158	12/18/13 13:34	GDB	TAL SAC
Total/NA	Analysis	8290A	RA	1	10.13 g	40 uL	34091	01/16/14 21:31	JRB	TAL SAC
	Instrument ID: 11D5									
Total/NA	Prep	8290			10.13 g	40 uL	32158	12/18/13 13:34	GDB	TAL SAC
Total/NA	Analysis	8290A		1	10.13 g	40 uL	33979	01/14/14 17:41	JRB	TAL SAC
	Instrument ID: 3D5									
Total/NA	Prep	3050B			0.5535 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-2_SS
Date Collected: 11/20/13 12:00
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-4
Matrix: Solid
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		5	0.5535 g	50 mL	95650	12/31/13 21:13	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5535 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5535 g	50 mL	94704	12/25/13 10:22	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6813 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6813 g	100 mL	88766	11/27/13 14:43	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach			4.0072 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	93483	12/09/13 21:59	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		4.0072 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	93481	12/10/13 15:53	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		4.0072 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	5 mL	5 mL	93481	12/10/13 16:08	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Thin_Layer			0.093 g	1.0 g	94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.093 g		94286	12/23/13 18:51	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			438 g	1.0 g	88180	11/26/13 14:40	LEM	TAL SL
Total/NA	Analysis	901.1		1	438 g		92823	12/18/13 19:19	SMP	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0428 g	1.0 g	88153	11/26/13 13:36	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0428 g		94684	12/24/13 11:35	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-0			1.0428 g	1.0 g	88159	11/26/13 14:00	RLS	TAL SL
Total/NA	Analysis	904.0		1	1.0428 g		93801	12/20/13 12:26	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0014 g	1.0 mL	92438	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0014 g		94886	12/26/13 16:51	MLK	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0014 g	1.0 mL	92428	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0014 g		95242	12/27/13 20:54	MLK	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: FM-SS-2_SS DUP — **Lab Sample ID: 680-96439-5**

Date Collected: 11/20/13 12:00 — **Matrix: Solid**

Date Received: 11/22/13 09:45 — **Percent Solids: 97.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.09 g	1 mL	88803	12/02/13 12:17	CNS	TAL SL
Total/NA	Analysis	8270D		1	30.09 g	1 mL	89755	12/03/13 23:16	JSW	TAL SL
	Instrument ID: MSI									
Total/NA	Prep	HRMS-Sox			10.10 g	40 uL	32172	12/18/13 16:10	GDB	TAL SAC
Total/NA	Analysis	1668C		20	10.10 g	40 uL	34142	01/18/14 19:58	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	8290	RA		10.10 g	40 uL	32158	12/18/13 13:34	GDB	TAL SAC
Total/NA	Analysis	8290A	RA	1	10.10 g	40 uL	34091	01/16/14 22:10	JRB	TAL SAC
	Instrument ID: 11D5									
Total/NA	Prep	8290			10.10 g	40 uL	32158	12/18/13 13:34	GDB	TAL SAC
Total/NA	Analysis	8290A		1	10.10 g	40 uL	33979	01/14/14 18:23	JRB	TAL SAC
	Instrument ID: 3D5									
Total/NA	Prep	3050B			0.5549 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5549 g	50 mL	95650	12/31/13 21:16	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5549 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5549 g	50 mL	94704	12/25/13 10:28	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6353 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6353 g	100 mL	88766	11/27/13 14:45	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach			3.9852 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	93483	12/09/13 22:28	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		3.9852 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	93483	12/09/13 22:42	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		3.9852 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	93481	12/10/13 16:22	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Thin_Layer			0.0878 g	1.0 g	94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.0878 g		94286	12/23/13 18:51	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			415 g	1.0 g	88180	11/26/13 14:40	LEM	TAL SL
Total/NA	Analysis	901.1		1	415 g		92829	12/18/13 19:26	EMN	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0223 g	1.0 g	88153	11/26/13 13:36	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0223 g		94684	12/24/13 07:59	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL

Client Sample ID: FM-SS-2_SS DUP

Lab Sample ID: 680-96439-5

Date Collected: 11/20/13 12:00

Matrix: Solid

Date Received: 11/22/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-0			1.0223 g	1.0 g	88159	11/26/13 14:00	RLS	TAL SL
Total/NA	Analysis	904.0		1	1.0223 g		93801	12/20/13 12:26	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0005 g	1.0 mL	92438	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0005 g		94887	12/26/13 16:52	MLK	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0005 g	1.0 mL	92428	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0005 g		95243	12/27/13 20:54	MLK	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: FM-SS-3_SS

Lab Sample ID: 680-96439-6

Date Collected: 11/20/13 13:00

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.05 g	1 mL	88803	12/02/13 12:17	CNS	TAL SL
Total/NA	Analysis	8270D		1	30.05 g	1 mL	89755	12/03/13 23:49	JSW	TAL SL
	Instrument ID: MSI									
Total/NA	Prep	HRMS-Sox			10.10 g	40 uL	32172	12/18/13 16:10	GDB	TAL SAC
Total/NA	Analysis	1668C		20	10.10 g	40 uL	34142	01/18/14 21:13	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	8290	RA		10.10 g	40 uL	32158	12/18/13 13:34	GDB	TAL SAC
Total/NA	Analysis	8290A	RA	1	10.10 g	40 uL	34091	01/16/14 22:49	JRB	TAL SAC
	Instrument ID: 11D5									
Total/NA	Prep	8290			10.10 g	40 uL	32158	12/18/13 13:34	GDB	TAL SAC
Total/NA	Analysis	8290A		1	10.10 g	40 uL	33979	01/14/14 19:05	JRB	TAL SAC
	Instrument ID: 3D5									
Total/NA	Prep	8290	DL		10.10 g	40 uL	32158	12/18/13 13:34	GDB	TAL SAC
Total/NA	Analysis	8290A	DL	20	10.10 g	40 uL	35018	01/29/14 05:47	JRB	TAL SAC
	Instrument ID: 4D5									
Total/NA	Prep	3050B			0.5437 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5437 g	50 mL	95650	12/31/13 21:20	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5437 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5437 g	50 mL	94704	12/25/13 10:49	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5437 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		50	0.5437 g	50 mL	94960	12/26/13 18:14	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6220 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6220 g	100 mL	88766	11/27/13 14:47	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach			4.0053 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL

Client Sample ID: FM-SS-3_SS

Lab Sample ID: 680-96439-6

Date Collected: 11/20/13 13:00

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	300.0		1	5 mL	5 mL	93483	12/09/13 22:57	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		4.0053 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	93483	12/09/13 23:11	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		4.0053 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	5 mL	5 mL	93481	12/10/13 16:37	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Thin_Layer			0.077 g	1.0 g	94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.077 g		94286	12/23/13 18:51	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			341.9 g	1.0 g	88180	11/26/13 14:40	LEM	TAL SL
Total/NA	Analysis	901.1		1	341.9 g		92841	12/18/13 20:08	EMN	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0050 g	1.0 g	88153	11/26/13 13:36	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0050 g		94684	12/24/13 07:59	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-0			1.0050 g	1.0 g	88159	11/26/13 14:00	RLS	TAL SL
Total/NA	Analysis	904.0		1	1.0050 g		93801	12/20/13 12:26	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0009 g	1.0 mL	92438	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0009 g		94888	12/26/13 16:52	MLK	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0009 g	1.0 mL	92428	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0009 g		95244	12/27/13 20:54	MLK	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: FM-SS-4_SS

Lab Sample ID: 680-96439-7

Date Collected: 11/20/13 14:20

Matrix: Solid

Date Received: 11/22/13 09:45

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	HRMS-Sox			5.00 g	20 uL	32403	12/21/13 12:08	GDB	TAL SAC
Total/NA	Analysis	1668C		1	5.00 g	20 uL	33200	01/05/14 05:56	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	HRMS-Sox	DL		5.00 g	20 uL	34278	12/21/13 12:08	ELK	TAL SAC
Total/NA	Dilution	Dilution	DL		2.5 uL	20 uL	34281	01/17/14 10:00	ELK	TAL SAC

Client Sample ID: FM-SS-4_SS
Date Collected: 11/20/13 14:20
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-7
Matrix: Solid
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	Analysis	1668C	DL	1	5.00 g	20 uL	34144	01/19/14 15:11	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	3050B			0.5338 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5338 g	50 mL	95650	12/31/13 21:24	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5338 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5338 g	50 mL	94704	12/25/13 10:56	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6867 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6867 g	100 mL	88766	11/27/13 14:53	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach			3.9963 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	93483	12/09/13 23:26	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		3.9963 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	93481	12/10/13 16:51	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		3.9963 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	5 mL	5 mL	93481	12/10/13 17:06	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Thin_Layer			0.0932 g	1.0 g	94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.0932 g		94286	12/23/13 18:51	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			396.9 g	1.0 g	88180	11/26/13 14:40	LEM	TAL SL
Total/NA	Analysis	901.1		1	396.9 g		92829	12/18/13 20:13	EMN	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0134 g	1.0 g	88153	11/26/13 13:36	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0134 g		94684	12/24/13 08:00	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-0			1.0134 g	1.0 g	88159	11/26/13 14:00	RLS	TAL SL
Total/NA	Analysis	904.0		1	1.0134 g		93801	12/20/13 12:26	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0035 g	1.0 mL	92438	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0035 g		94889	12/26/13 16:52	MLK	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0035 g	1.0 mL	92428	12/16/13 15:38	MLM	TAL SL

Client Sample ID: FM-SS-4_SS

Lab Sample ID: 680-96439-7

Date Collected: 11/20/13 14:20

Matrix: Solid

Date Received: 11/22/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	A-01-R		1	1.0035 g		95245	12/27/13 20:54	MLK	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: BY-SS-1_SS

Lab Sample ID: 680-96439-8

Date Collected: 11/20/13 15:10

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			5.12 g	20 uL	32403	12/21/13 12:08	GDB	TAL SAC
Total/NA	Analysis	1668C		1	5.12 g	20 uL	33201	01/05/14 11:20	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	HRMS-Sox	DL		5.12 g	20 uL	32403	12/21/13 12:08	GDB	TAL SAC
Total/NA	Analysis	1668C	DL	20	5.12 g	20 uL	33651	01/12/14 10:43	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	3050B			0.5852 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5852 g	50 mL	95650	12/31/13 21:28	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5852 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5852 g	50 mL	94704	12/25/13 11:02	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6584 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6584 g	100 mL	88766	11/27/13 14:48	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach	DL		4.0315 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	93483	12/10/13 00:38	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		4.0315 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL2	200	5 mL	5 mL	93481	12/10/13 17:20	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									

Client Sample ID: NS-SS-1_SS

Lab Sample ID: 680-96439-9

Date Collected: 11/20/13 09:25

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.34 g	1 mL	88803	12/02/13 12:17	CNS	TAL SL
Total/NA	Analysis	8270D		1	30.34 g	1 mL	89755	12/04/13 00:22	JSW	TAL SL
	Instrument ID: MSI									
Total/NA	Prep	HRMS-Sox	DL		9.93 g	40 uL	32277	12/19/13 17:37	GDB	TAL SAC
Total/NA	Analysis	1668C	DL	10	9.93 g	40 uL	35733	02/07/14 09:12	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	8290			9.93 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: NS-SS-1_SS
Date Collected: 11/20/13 09:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-9
Matrix: Solid
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8290A		20	9.93 g	40 uL	33905	01/14/14 00:26	JRB	TAL SAC
	Instrument ID: 10D5									
Total/NA	Prep	8290	RADL		9.93 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A	RADL	20	9.93 g	40 uL	33854	01/14/14 05:34	JRB	TAL SAC
	Instrument ID: 5D2									
Total/NA	Prep	3050B			0.5516 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5516 g	50 mL	95650	12/31/13 21:31	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5516 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5516 g	50 mL	94704	12/25/13 11:09	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6810 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6810 g	100 mL	88766	11/27/13 14:50	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach			4.0166 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	93483	12/10/13 00:52	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		4.0166 g	40 mL	90489	12/09/13 14:46	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	93481	12/10/13 18:03	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Thin_Layer			0.086 g	1.0 g	94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.086 g		94286	12/23/13 18:51	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			401.4 g	1.0 g	88180	11/26/13 14:40	LEM	TAL SL
Total/NA	Analysis	901.1		1	401.4 g		92822	12/18/13 20:12	EMN	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0016 g	1.0 g	88153	11/26/13 13:36	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0016 g		94684	12/24/13 08:00	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-0			1.0016 g	1.0 g	88159	11/26/13 14:00	RLS	TAL SL
Total/NA	Analysis	904.0		1	1.0016 g		93801	12/20/13 12:26	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0026 g	1.0 mL	92438	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0026 g		94890	12/26/13 16:52	MLK	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0026 g	1.0 mL	92428	12/16/13 15:38	MLM	TAL SL

Client Sample ID: NS-SS-1_SS

Lab Sample ID: 680-96439-9

Date Collected: 11/20/13 09:25

Matrix: Solid

Date Received: 11/22/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	A-01-R		1	1.0026 g		95246	12/27/13 20:54	MLK	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: NS-SS-5_SS

Lab Sample ID: 680-96439-10

Date Collected: 11/20/13 09:50

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.16 g	1 mL	88803	12/02/13 12:17	CNS	TAL SL
Total/NA	Analysis	8270D		1	30.16 g	1 mL	89755	12/04/13 00:55	JSW	TAL SL
	Instrument ID: MSI									
Total/NA	Prep	HRMS-Sox			10.08 g	40 uL	32277	12/19/13 17:37	GDB	TAL SAC
Total/NA	Analysis	1668C		1	10.08 g	40 uL	35959	02/10/14 13:28	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	8290	RA		10.08 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A	RA	1	10.08 g	40 uL	33846	01/14/14 02:26	JRB	TAL SAC
	Instrument ID: 11D5									
Total/NA	Prep	8290			10.08 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A		1	10.08 g	40 uL	33441	01/07/14 19:31	JRB	TAL SAC
	Instrument ID: 3D5									
Total/NA	Prep	3050B			0.5633 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5633 g	50 mL	95650	12/31/13 21:35	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5633 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5633 g	50 mL	94704	12/25/13 11:16	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6834 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6834 g	100 mL	88766	11/27/13 14:51	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach			3.9861 g	40 mL	90489	12/09/13 14:48	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	93483	12/10/13 01:21	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach			3.9861 g	40 mL	90489	12/09/13 14:48	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	93481	12/10/13 18:18	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Thin_Layer			0.0816 g	1.0 g	94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.0816 g		94286	12/23/13 18:51	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			421.6 g	1.0 g	88180	11/26/13 14:40	LEM	TAL SL
Total/NA	Analysis	901.1		1	421.6 g		92823	12/18/13 20:11	SMP	TAL SL
	Instrument ID: GAMMAVISION									

Client Sample ID: NS-SS-5_SS

Lab Sample ID: 680-96439-10

Date Collected: 11/20/13 09:50

Matrix: Solid

Date Received: 11/22/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0057 g	1.0 g	88153	11/26/13 13:36	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0057 g		94684	12/24/13 08:00	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-0			1.0057 g	1.0 g	88159	11/26/13 14:00	RLS	TAL SL
Total/NA	Analysis	904.0		1	1.0057 g		93801	12/20/13 12:26	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0012 g	1.0 mL	92438	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0012 g		94830	12/26/13 17:11	MLK	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0012 g	1.0 mL	92428	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0012 g		95247	12/27/13 20:54	MLK	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: BY-SS-3_SS

Lab Sample ID: 680-96439-11

Date Collected: 11/20/13 10:10

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.05 g	1 mL	88803	12/02/13 12:17	CNS	TAL SL
Total/NA	Analysis	8270D		1	30.05 g	1 mL	89755	12/04/13 01:29	JSW	TAL SL
	Instrument ID: MSI									
Total/NA	Prep	HRMS-Sox	DL		10.10 g	40 uL	32277	12/19/13 17:37	GDB	TAL SAC
Total/NA	Analysis	1668C	DL	20	10.10 g	40 uL	34287	01/22/14 00:37	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	HRMS-Sox	RA		10.10 g	40 uL	32277	12/19/13 17:37	GDB	TAL SAC
Total/NA	Analysis	1668C	RA	1	10.10 g	40 uL	35731	02/06/14 19:00	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	8290	RA		10.10 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A	RA	1	10.10 g	40 uL	33846	01/14/14 03:05	JRB	TAL SAC
	Instrument ID: 11D5									
Total/NA	Prep	8290			10.10 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A		1	10.10 g	40 uL	33441	01/07/14 20:13	JRB	TAL SAC
	Instrument ID: 3D5									
Total/NA	Prep	3050B			0.5514 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5514 g	50 mL	95650	12/31/13 21:39	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5514 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5514 g	50 mL	94704	12/25/13 11:23	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6289 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL

Client Sample ID: BY-SS-3_SS

Lab Sample ID: 680-96439-11

Date Collected: 11/20/13 10:10

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	0.6289 g	100 mL	88766	11/27/13 14:55	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach	DL		4.0309 g	40 mL	90489	12/09/13 16:20	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	93483	12/10/13 02:04	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		4.0309 g	40 mL	90489	12/09/13 16:20	AMF	TAL SL
Soluble	Analysis	300.0	DL2	200	5 mL	5 mL	93481	12/10/13 18:32	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Thin_Layer			0.0849 g	1.0 g	94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.0849 g		94286	12/23/13 18:51	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			423 g	1.0 g	88180	11/26/13 14:40	LEM	TAL SL
Total/NA	Analysis	901.1		1	423 g		92839	12/18/13 21:38	EMN	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0023 g	1.0 g	88153	11/26/13 13:36	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0023 g		94684	12/24/13 08:00	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-0			1.0023 g	1.0 g	88159	11/26/13 14:00	RLS	TAL SL
Total/NA	Analysis	904.0		1	1.0023 g		93801	12/20/13 12:26	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0037 g	1.0 mL	94660	12/24/13 11:42	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0037 g		96207	01/04/14 00:54	LES	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0037 g	1.0 mL	94658	12/24/13 11:42	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0037 g		96207	01/04/14 17:15	LES	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: BY-SS-3_SS DUP

Lab Sample ID: 680-96439-12

Date Collected: 11/20/13 10:10

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.24 g	1 mL	88803	12/02/13 12:17	CNS	TAL SL
Total/NA	Analysis	8270D		1	30.24 g	1 mL	89755	12/04/13 03:08	JSW	TAL SL
	Instrument ID: MSI									
Total/NA	Prep	HRMS-Sox			10.01 g	40 uL	32277	12/19/13 17:37	GDB	TAL SAC

Client Sample ID: BY-SS-3_SS DUP
Date Collected: 11/20/13 10:10
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-12
Matrix: Solid
Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1668C		1	10.01 g	40 uL	35861	02/09/14 06:17	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	8290	RA		10.01 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A	RA	1	10.01 g	40 uL	33846	01/14/14 05:02	JRB	TAL SAC
	Instrument ID: 11D5									
Total/NA	Prep	8290			10.01 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A		1	10.01 g	40 uL	33441	01/08/14 01:24	JRB	TAL SAC
	Instrument ID: 3D5									
Total/NA	Prep	3050B			0.5151 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		25	0.5151 g	50 mL	95650	12/31/13 21:58	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5151 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5151 g	50 mL	94704	12/25/13 11:43	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6696 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6696 g	100 mL	88766	11/27/13 15:03	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach	DL		4.0062 g	40 mL	90489	12/09/13 15:20	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	93483	12/10/13 04:00	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		4.0062 g	40 mL	90489	12/09/13 15:20	AMF	TAL SL
Soluble	Analysis	300.0	DL2	200	5 mL	5 mL	93481	12/10/13 19:15	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Thin_Layer			0.0728 g	1.0 g	94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.0728 g		94286	12/23/13 18:51	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			418.4 g	1.0 g	88180	11/26/13 14:40	LEM	TAL SL
Total/NA	Analysis	901.1		1	418.4 g		92840	12/18/13 21:36	EMN	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0039 g	1.0 g	88153	11/26/13 13:36	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0039 g		94685	12/24/13 07:54	RTM	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-0			1.0039 g	1.0 g	88159	11/26/13 14:00	RLS	TAL SL
Total/NA	Analysis	904.0		1	1.0039 g		93855	12/20/13 12:27	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0014 g	1.0 mL	94660	12/24/13 11:42	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0014 g		96215	01/04/14 00:54	LES	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: BY-SS-3_SS DUP

Lab Sample ID: 680-96439-12

Date Collected: 11/20/13 10:10

Matrix: Solid

Date Received: 11/22/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0014 g	1.0 mL	94658	12/24/13 11:42	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0014 g		96215	01/04/14 17:15	LES	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: J2-SS-3_SS

Lab Sample ID: 680-96439-13

Date Collected: 11/21/13 08:00

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			5.03 g	20 uL	32403	12/21/13 12:08	GDB	TAL SAC
Total/NA	Analysis	1668C		1	5.03 g	20 uL	33201	01/05/14 12:36	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	HRMS-Sox	DL		5.03 g	20 uL	32403	12/21/13 12:08	GDB	TAL SAC
Total/NA	Analysis	1668C	DL	25	5.03 g	20 uL	33651	01/12/14 13:13	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	3050B			0.5686 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5686 g	50 mL	95650	12/31/13 22:02	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5686 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5686 g	50 mL	94704	12/25/13 11:50	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6284 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6284 g	100 mL	88766	11/27/13 15:05	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach	DL		4.0357 g	40 mL	90489	12/09/13 15:20	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	93483	12/10/13 04:28	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		4.0357 g	40 mL	90489	12/09/13 15:20	AMF	TAL SL
Soluble	Analysis	300.0	DL2	200	5 mL	5 mL	93481	12/10/13 19:30	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									

Client Sample ID: J2-SS-2_SS

Lab Sample ID: 680-96439-14

Date Collected: 11/21/13 08:25

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.35 g	1 mL	88803	12/02/13 12:17	CNS	TAL SL
Total/NA	Analysis	8270D		1	30.35 g	1 mL	89755	12/04/13 03:42	JSW	TAL SL
	Instrument ID: MSI									
Total/NA	Prep	HRMS-Sox			10.16 g	40 uL	32277	12/19/13 17:37	GDB	TAL SAC

Client Sample ID: J2-SS-2_SS
Date Collected: 11/21/13 08:25
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-14
Matrix: Solid
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1668C		10	10.16 g	40 uL	35734	02/07/14 20:52	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	8290	RA		10.16 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A	RA	1	10.16 g	40 uL	33846	01/14/14 05:41	JRB	TAL SAC
	Instrument ID: 11D5									
Total/NA	Prep	8290			10.16 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A		1	10.16 g	40 uL	33441	01/08/14 02:06	JRB	TAL SAC
	Instrument ID: 3D5									
Total/NA	Prep	3050B			0.5773 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5773 g	50 mL	95650	12/31/13 22:06	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5773 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5773 g	50 mL	94704	12/25/13 12:10	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5773 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5773 g	50 mL	94960	12/26/13 18:21	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6658 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6658 g	100 mL	88766	11/27/13 15:06	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach			3.9997 g	40 mL	90489	12/09/13 15:20	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	93483	12/10/13 04:43	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		3.9997 g	40 mL	90489	12/09/13 15:20	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	93483	12/10/13 04:57	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		3.9997 g	40 mL	90489	12/09/13 15:20	AMF	TAL SL
Soluble	Analysis	300.0	DL2	500	5 mL	5 mL	93481	12/10/13 19:44	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Thin_Layer			0.0745 g	1.0 g	94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.0745 g		94285	12/23/13 18:49	MLK	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			358.3 g	1.0 g	88180	11/26/13 14:42	LEM	TAL SL
Total/NA	Analysis	901.1		1	358.3 g		92841	12/18/13 21:37	EMN	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0092 g	1.0 g	88153	11/26/13 13:36	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0092 g		94685	12/24/13 07:54	RTM	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	DPS-0			1.0092 g	1.0 g	88159	11/26/13 14:00	RLS	TAL SL

Client Sample ID: J2-SS-2_SS

Lab Sample ID: 680-96439-14

Date Collected: 11/21/13 08:25

Matrix: Solid

Date Received: 11/22/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	904.0		1	1.0092 g		93855	12/20/13 12:27	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0008 g	1.0 mL	94660	12/24/13 11:42	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0008 g		96189	01/04/14 00:54	LES	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	87562	11/22/13 14:48	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0008 g	1.0 mL	94658	12/24/13 11:42	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0008 g		96189	01/04/14 17:15	LES	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: J2-SS-1_SS

Lab Sample ID: 680-96439-15

Date Collected: 11/21/13 08:55

Matrix: Solid

Date Received: 11/22/13 09:45

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	HRMS-Sox			4.99 g	20 uL	32403	12/21/13 12:08	GDB	TAL SAC
Total/NA	Analysis	1668C		1	4.99 g	20 uL	33201	01/05/14 13:51	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	HRMS-Sox	DL		4.99 g	20 uL	34278	12/21/13 12:08	ELK	TAL SAC
Total/NA	Dilution	Dilution	DL		2.5 uL	20 uL	34281	01/17/14 10:00	ELK	TAL SAC
Total/NA	Analysis	1668C	DL	1	4.99 g	20 uL	35733	02/07/14 06:41	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	3050B			0.5395 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		25	0.5395 g	50 mL	95650	12/31/13 22:09	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5395 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5395 g	50 mL	94704	12/25/13 12:17	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5395 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		20	0.5395 g	50 mL	94960	12/26/13 18:27	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6104 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6104 g	100 mL	88766	11/27/13 15:08	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach	DL		3.9993 g	40 mL	90489	12/09/13 15:20	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	93483	12/10/13 05:26	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		3.9993 g	40 mL	90489	12/09/13 15:20	AMF	TAL SL
Soluble	Analysis	300.0	DL2	200	5 mL	5 mL	93481	12/10/13 19:59	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									

Client Sample ID: S17-SS-2_SS

Lab Sample ID: 680-96439-16

Date Collected: 11/21/13 12:00

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.22 g	1 mL	88803	12/02/13 12:17	CNS	TAL SL
Total/NA	Analysis	8270D		1	30.22 g	1 mL	89755	12/04/13 04:15	JSW	TAL SL
	Instrument ID: MSI									
Total/NA	Prep	HRMS-Sox			10.13 g	40 uL	32277	12/19/13 17:37	GDB	TAL SAC
Total/NA	Analysis	1668C		10	10.13 g	40 uL	35734	02/07/14 22:08	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	8290			10.13 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A		1	10.13 g	40 uL	33441	01/08/14 02:48	JRB	TAL SAC
	Instrument ID: 3D5									
Total/NA	Prep	8290	RA		10.13 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A	RA	1	10.13 g	40 uL	33854	01/14/14 04:19	JRB	TAL SAC
	Instrument ID: 5D2									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									

Client Sample ID: BY-SS-4_SS

Lab Sample ID: 680-96439-17

Date Collected: 11/20/13 15:40

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.5161 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5161 g	50 mL	95650	12/31/13 22:13	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5161 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5161 g	50 mL	94704	12/25/13 12:23	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5161 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5161 g	50 mL	94960	12/26/13 18:34	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6152 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6152 g	100 mL	88766	11/27/13 15:10	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach			4.0051 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	94320	12/18/13 16:46	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		4.0051 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	94320	12/18/13 17:02	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		4.0051 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL2	200	5 mL	5 mL	94320	12/18/13 17:19	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									

Client Sample ID: NS-SS-4_SS

Lab Sample ID: 680-96439-18

Date Collected: 11/20/13 14:44
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.5719 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5719 g	50 mL	95650	12/31/13 22:17	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5719 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5719 g	50 mL	94704	12/25/13 12:30	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5719 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5719 g	50 mL	94960	12/26/13 18:41	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6562 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6562 g	100 mL	88766	11/27/13 15:11	MTS	TAL SL
	Instrument ID: HAA2									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									

Client Sample ID: NS-SS-3_SS

Lab Sample ID: 680-96439-19

Date Collected: 11/20/13 15:05
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.5420 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		50	0.5420 g	50 mL	95650	12/31/13 22:21	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5420 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5420 g	50 mL	94704	12/25/13 12:37	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5420 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5420 g	50 mL	94960	12/26/13 18:48	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6259 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6259 g	100 mL	88766	11/27/13 15:13	MTS	TAL SL
	Instrument ID: HAA2									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									

Client Sample ID: NS-SS-2_SS

Lab Sample ID: 680-96439-20

Date Collected: 11/20/13 14:55
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.5076 g	50 mL	89180	12/03/13 09:29	WA1	TAL SL
Total/NA	Analysis	6010C		25	0.5076 g	50 mL	95650	12/31/13 22:25	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5076 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL

Client Sample ID: NS-SS-2_SS

Lab Sample ID: 680-96439-20

Date Collected: 11/20/13 14:55

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6020A		10	0.5076 g	50 mL	94704	12/25/13 12:44	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5076 g	50 mL	89165	12/03/13 09:05	WA1	TAL SL
Total/NA	Analysis	6020A		50	0.5076 g	50 mL	94960	12/26/13 18:54	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6470 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6470 g	100 mL	88766	11/27/13 15:14	MTS	TAL SL
	Instrument ID: HAA2									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									

Client Sample ID: BY-SS-2_SS

Lab Sample ID: 680-96439-21

Date Collected: 11/20/13 15:25

Matrix: Solid

Date Received: 11/22/13 09:45

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.5952 g	50 mL	89170	12/03/13 09:19	WA1	TAL SL
Total/NA	Analysis	6010C		2	0.5952 g	50 mL	89663	12/03/13 22:42	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5952 g	50 mL	89170	12/03/13 09:19	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5952 g	50 mL	91064	12/10/13 17:56	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3050B			0.5952 g	50 mL	89178	12/03/13 09:24	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5952 g	50 mL	94701	12/25/13 04:38	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7471B			0.6737 g	100 mL	87981	11/26/13 06:54	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6737 g	100 mL	88766	11/27/13 15:20	MTS	TAL SL
	Instrument ID: HAA2									
Soluble	Leach	DI Leach	DL		4.0090 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	94320	12/18/13 18:24	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		4.0090 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL2	200	5 mL	5 mL	94320	12/18/13 18:41	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL3		4.0090 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL3	500	5 mL	5 mL	94320	12/19/13 12:02	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Analysis	Moisture		1			87587	11/23/13 08:19	SDB	TAL SL
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: RINSATE

Date Collected: 11/21/13 11:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			956.6 mL	1 mL	87577	11/22/13 17:26	JSW	TAL SL
Total/NA	Analysis	8270D		1	956.6 mL	1 mL	89239	11/27/13 15:57	JSW	TAL SL
	Instrument ID: MSK									
Total/NA	Prep	HRMS-Sep			971.4 mL	20.00 uL	31731	12/12/13 14:53	CCC	TAL SAC
Total/NA	Analysis	1668C		1	971.4 mL	20.00 uL	33179	12/20/13 21:38	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	8290			955.4 mL	20.00 uL	31203	12/05/13 13:52	CCC	TAL SAC
Total/NA	Analysis	8290A		1	955.4 mL	20.00 uL	32760	12/27/13 19:27	JRB	TAL SAC
	Instrument ID: 9D5									
Total/NA	Prep	3010A			50 mL	50 mL	92863	12/18/13 13:53	WA1	TAL SL
Total/NA	Analysis	6010C		1	50 mL	50 mL	94290	12/20/13 22:00	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3010A			50 mL	50 mL	92865	12/18/13 13:55	WA1	TAL SL
Total/NA	Analysis	6020A		1	50 mL	50 mL	94961	12/26/13 19:01	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	7470A			30 mL	30 mL	88412	11/27/13 08:55	WA1	TAL SL
Total/NA	Analysis	7470A		1	30 mL	30 mL	88430	11/27/13 09:55	MTS	TAL SL
	Instrument ID: HAA2									
Total/NA	Analysis	300.0		1	5 mL	5 mL	88451	11/22/13 14:32	JCB	TAL SL
	Instrument ID: IC2500									
Total/NA	Prep	Evaporation			200 mL	1.0 g	95023	12/27/13 12:05	MJS	TAL SL
Total/NA	Analysis	900.0		1	200 mL		95463	12/30/13 08:33	RTM	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	Fill_Geo-21			1000 mL	1.0 g	90469	12/09/13 13:26	MJS	TAL SL
Total/NA	Analysis	901.1		1	1000 mL		95684	01/01/14 17:24	SMP	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Prep	PrecSep-21			917.63 mL	1.0 g	87734	11/25/13 15:03	RLS	TAL SL
Total/NA	Analysis	903.0		1	917.63 mL		92648	12/17/13 08:53	LES	TAL SL
	Instrument ID: GFPCPROTEAN									
Total/NA	Prep	PrecSep_0			917.63 mL	1.0 g	87736	11/25/13 15:06	RLS	TAL SL
Total/NA	Analysis	904.0		1	917.63 mL		91102	12/11/13 10:56	MLK	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	ExtChrom			499.71 mL	1.0 mL	95550	01/02/14 08:22	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	499.71 mL		96197	01/04/14 17:17	RTM	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Prep	ExtChrom			500.35 mL	1.0 mL	94524	12/24/13 09:24	CEZ	TAL SL
Total/NA	Analysis	A-01-R		1	500.35 mL		95390	12/30/13 20:40	RTM	TAL SL
	Instrument ID: ALPHAVISION									

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelley	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 580-51812-23156.1
Client Contact: Ms. Andrea Brazeit	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #:
Address: 1375 Peachtree Street NE Suite A1S	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: GA, 30309	PO #: 1323080-11-2104			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	WO #:			
Email: abrazeit@geiconsultants.com	Project #: 68011884			
Project Name: TIMET	SSOW#:			Other:
Site:				

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Total Number of containers	Special Instructions/Note:
S17-SS-1_SS	11-21-13	0-6"	S-17	1830	C/G	S		1	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client; Disposal By Lab; Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to extraction. * - Dioxins will be run from the TCN Containers (s).

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by:	Date/Time: 11-21-13 1300	Company: GEI	Received by:	Date/Time: 11/21/13 1320	Company: G-E-T
Relinquished by:	Date/Time:	Company: GEI	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time: 11/22/13 1600	Company: FE	Received by:	Date/Time: 11/22/13 0945	Company: TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.7° / 2.1° / 2.2° / 1.5° / 2.0°

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shalkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0215 (cell)	E-Mail: kathy.smith@testamericainc.com	COC No: 680-51812-23156.1
Company: GEI Consultants, Inc.			Page: Page 1 of 1
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:	Analysis Requested	Job #:
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		Preservation Codes: A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: GA, 30309			
Phone: 404.592.6074 (direct) / 770.355.9276 (cell)	PO #: 1223080-11-2104		
Email: nbrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 68011884		
Site:	SSOW#:		Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0, 9056A, 9056A, A01R_Tr (Radionuclides)	300, 9038_TKN_Pass (Address / Total Uranium)	9011_Rp - (NOD) NORM Target List (Radionuclides)	1312D_PAHs	1312D - SVOCs	8015D, 8021A, 7419 (Metals)	8151C (PCB Congeners)	8260_DLW 4.2 VOCs	8260_DLW 4.2 VOCs	8260_DLW 4.2 VOCs	8260_DLW 4.2 VOCs	8082A (PCB Aroclors)	8082A (Aroclors and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	P	F	F	N	N		
FM-SS-1_SS	11-20-13	0-6"	Frency's Mountain	1230	C/G	S		X	1	2	2			1	1							3	MS/MSD
FM-SS-1_SS DUP	"	"	Frency's Mountain	1230	C/G	S			1	2	2			1	1							3	DUP
FM-SS-1_SS MS	↓	↓	Frency's Mountain	1230	C/G	S			1	2	2			1	1							3	MS
FM-SS-1_SS MSD	↓	↓	Frency's Mountain	1230	C/G	S			1	2	2			1	1							3	MSD

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: YCCs were not analyzed prior to collection. * - Dioxins will be run from the PCB Congeners list.

Empty Kit Relinquished by: Date: Time: Method of Shipment:

	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	11/21/13 1345		Received by:	11/21/13 1345	
Relinquished by:	11/21/13 1700		Received by:	11/22/13	0945
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shalkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #:
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - AmchlorH - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify), Other:
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9275 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B, 6020, 6010B_7N (Ni,Mo,Sb,Ge,Be)	300_ORG_Field_Mass (Perform) Total Uranium	300_ORG_Ra - (HOD) KOM Target List (Radiochemistry)	8170D PAHs	8260D - SVOCs	8260D - VOCs	6010C_6020A_7470 (Hg,U)	8260D (FOB Components)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8015A (FOB Acetone)	9056A (Chlorine and Fluoride)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	N	P	F	N	N			
FM-SS-2_SS	11-20-13	0-6"	Francy's Mountain	1200	C/G	S			1	1	2	1			1	1						^		
FM-SS-2_SS DUP	11-20-13	0-6"	Francy's Mountain	1200	C/G	S			1	1	2	1			1	1						^		

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client, Disposal By Lab, Archive Until GEI release for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ Sample will be run from the FOB Components jar.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/21/13 1310			11/21/13 1310	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/22/13 1200			11/22/13	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelley	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	COC No: 680-51812-23156.1
Company: GEI Consultants, Inc.			Page: Page 1 of 1
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:		Job #:
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1320080-11-2104		
Email: abrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 68011884		
Site:	SSOW#:		

Analysis Requested

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

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010, 6020A, 6010_ICPMS_Th (Radionuclides)	9310, 9320, 9315_Ra-226 (Radionuclides)	9315_Ra-228 (Radionuclides)	8270D - SVOCs	8260C - VOCs	6010C_6020A_7471B (TAL)	8082A (PCB Congeners)	8270D - 04/12 VOCs	8260C - 04/12 VOCs	8260C - 10/13 VOCs	8082A (PCB Aroclors)	6010A (Metals and Hardness)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	P	F	F	N	N	X	
FM-SS-3_SS	11-2013	0-6"	Francy's Mountain	1300	C/G	S			1	1	2	1		1	1					1	7	
																					0	
																					0	
																					0	
																					0	
																					0	
																					0	
																					0	
																					0	
																					0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client; Disposal By Lab; Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: *PCBs were not connected prior to collection. ^ - Dioxins will be run from the PCB Congener list.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time: 11/21/13 1310	Company: GEI	Received by:	Date/Time: 11/21/13 1710	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 11/22/13	Company: 0945
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelley	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	COC No: 680-51812-23155.1
Company: GEI Consultants, Inc.			Page: Page 1 of 1
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:	Analysis Requested	Job #:
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - Nano, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify), Other:
State, Zip: GA, 30309	PO #: 1323080-11-2104		
Phone: 404.592.0074 (direct) / 770.365.9275 (cell)	WO #:		
Email: abrazell@geiconsultants.com	Project #: 69011884		
Project Name: TIMET	SSOW#:		
Site:			

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010A, 6020A, 7470A/7471A (As,Be,Cd,Cr,Cu,Ni,Pb,Se,Tl,Zn)	Sr, 6020_Tests_Mass (Method / Total Uranium)	9315_Ra-226(HPGe) NORM Target List (Ra-226 Specified)	9310 PAHs	8260B - SVOCs	6010C, 6020A, 7470B (Hg)	8082 (PCB Congeners)	8260 - OLM 4.2 VOCs	8260 - OLM 4.2 VOCs	8260 - OLM 4.2 VOCs	8260 - OLM 4.2 VOCs	8082 (PCB Aroclors)	9056A (Anions and Fluoride)	Total Number of containers	Special Instructions/Note:
								N	N	N	N	N	N	N	N	N	N	P	J	F	N	N		
FM-SS-4_SS	11-20-13	0-6"	Fancy's Mountain	1420	C/G	S			1	2	2			1	1								8	4187
																							0	
																							0	
																							0	
																							0	
																							0	
																							0	
																							0	
																							0	
																							0	
																							0	

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

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☒ Archive Until GEI releases for disposal.

Special Instructions/QC Requirements: VOCs were not compositied prior to collection. * - Dioxins will be one from the PCB Congeners list.

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 11/20/13 1700	Company: GEI	Received by: Jeff Shelley	Date/Time: 11/20/13 1700	Company: GEI	
Relinquished by:	Date/Time:	Company: GEI	Received by:	Date/Time: 11/21/13 1300	Company: TA	
Relinquished by:	Date/Time: 11/21/13 1400	Company: TA	Received by:	Date/Time: 11/22/13 0940	Company: TA	

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 515.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	COC No: 680-51612-22150.1
Company: GEI Consultants, Inc.			Page: Page 1 of 1
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:		Job #:
City: Atlanta	TAT Requested (days): 28 - Day with Prelim due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.592.0074 (direct) / 770.355.9270 (cell)	PO #: 13323060-11-21DM		
Email: abrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 68011884		
Site:	SSOW#:		

Analysis Requested

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

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B, 6010B, 6010B_Ca (Radionuclides)	VOA_6260_Total_Xylenes (Analysis/Total Unranking)	8011_Ext - DOD NORM Target List (Radionuclides)	11100 PAHs	11100 - SVOCs	8015C, 8015A, 7471B (Hg)	11100 PCB Congeners	11100 - 6010 8 RCRA VOCs	11100 - 6010 8 RCRA VOCs	11100 - 6010 8 RCRA VOCs	11100 - 6010 8 RCRA VOCs	11100 PCB Aroclors	11100 PCB Aroclors (Oxidize and Extract)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	P	J	G	N	N		
BY-SS-1_SS	11-20-13	0-6"	Boneyard	1570	C/G	S				1				1	1							3	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
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																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☒ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to extraction. * = Dioxins will include furans. Run PCB Congeners by.

Empty Kit Relinquished by:		Date:		Time:	Method of Shipment:
Relinquished by:	Date/Time: 11/20/13 1702	Company: GEI	Received by:	Date/Time: 11/20/13 1702	Company: GEI
Relinquished by:	Date/Time:	Company: GEI	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time: 11/21/13 0920	Company: TA	Received by:	Date/Time: 11/22/13 0920	Company: TA

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelley	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	
Company: GEI Consultants, Inc.			
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:		
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.502.9074 (direct) / 770.355.9276 (cell)	PO #: 1320080-11-2164		
Email: obrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 68011684		
Site:	SSOW#:		

COC No: 680-51612-22156.1
Page: Page 1 of 1
Job #:

Analysis Requested

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

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, s=solid, o=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010A, 6020A, 6010B, 6020B, Al, Be, Cr-Hexavalent	300.0, 6020A, 6020B_Total_Uranium	9310_Ra - (226)/(228) NORM Target List (Radiochemistry)	8260B BTEX	8260B - SVOCs	8260B_8021A, 8021B (Waste)	8260B (GC Constituents)	8260B - DLW 4.2 VOCs	8260B - DLW 4.2 VOCs	8260B - DLW 4.2 VOCs	8270C - DLW 4.2 SVOCs	8082A (PCB Aroclors)	8270A (Dioxins and Furans)	Total Number of Containers	Special Instructions/Note:
					Preservation Codes:		N	N	N	N	N	N	N	N	N	N	N	N	P	E	N	N	
NS-SS-1_SS	11/21/13	0-0.5	Northern Storage Area	0925	C/G	S			1	1	2	1		1	1						*	6	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client; Disposal By Lab; Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: Does not necessarily pertain to collection. * - Dioxins will be run from the PCB Containers.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time: 11/21/13 1300	Company: GEI	Received by:	Date/Time: 11/21/13 1360	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 11/22/13 0945	Company: TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shotkoy	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	COC No: 680-51812-23156.1
Company: GEI Consultants, Inc.			Page: Page 1 of 1
Address: 1376 Peachtree Street NE Suite A15	Due Date Requested:		Job #: 680-51812-1
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.592.0074 (direct) / 770.355.3270 (cell)	PO #: 1323080-11-2104		
Email: abrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 68011884		
Site:	SSOW#:		

Analysis Requested

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

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (Comp, Grab)	Matrix (Water, Solid, Oil, Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B, 6020, 7470A/7471A Total Hg (Soil)	6010B, 6020, 7470A/7471A Dissolved Hg (Soil)	6010B, 6020, 7470A/7471A Target List (Soil)	8260B PAHs	8260B - SVOCs	8260B - VOCs	8082 - PCB Congeners	8260B - CLH 12 VOCs	8260B - OLH 12 VOCs	8260B - OLH 42 VOCs	8260B - OLH 42 VOCs	8260B PCB Analytes	8270C (Soils) and Furans	Total Number of Containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	B	J	F	N	N		
NS-SS-5_SS	11/21/13	0-0.5'	Northern Storage Area	0930	G/G	S			1	1	2	1		1	1						^	7	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive Until GEI releases for disposal.

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Prelims will be run from the PCB Congeners list.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time: 11/21/13 1310	Company: GEI	Received by:	Date/Time: 11/21/13 1310	Company
Relinquished by:	Date/Time: 11/21/13 1715	Company: GEI	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/22/13 0945	Company TA

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shalley	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 616.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	COC No: 580-51812-23156.1
Company: GEI Consultants, Inc.			Page: Page 1 of 1
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:		Job #: GSD - GEI 668
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.962.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104		
Email: abrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 88011864		
Site:	SSOW#:		

Analysis Requested

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

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260_8260A_8260B_AK101_TN (Ryan Sandefur)	300_(NO3_NO2)_Total_Kjeld (Robert / Tekki Brashears)	9011_Ra - 226(GFPC) RDBUT Target List (Ryan Sandefur)	537(0)_PFAS	8270D - SVOCs	6010C_6020A_7471B (Unfilt	1668 (PCB Congeners)	8260 - DUP 1,2 VOCs	8260 - DUP 1,2 VOCs	8260 - DUP 1,2 VOCs	8260 - DUP 1,2 VOCs	8082A (PCB Aroclors)	8260 (Oxygen and Fixed)	Total Number of containers	Special Instructions/Note:
					Preservation Codes:		X	X	N	N	N	N	N	N	N	N	P	J	T	N	Z		
BY-SS-3_SS	11-20-13	0-6"	Boneyard	1010	C/G	S		X	1	1	2	1		1	1						^	7	
BY-SS-3_SS DUP			Boneyard	1010	C/G	S			1	1	2	1		1	1						^	7	
BY-SS-3_SS MS			Boneyard	1010	C/G	S			1	1	2	1		1	1						^	7	
BY-SS-3_SS MSD			Boneyard	1010	C/G	S			1	1	2	1		1	1						^	7	
																						0	
																						0	
																						0	
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																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client; Disposal By Lab; Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners list.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: Jeff Shalley	Date/Time: 11/21/13 1340	Company: GEI	Received by:	Date/Time: 11/21/13 1540	Company: GEI
Relinquished by:	Date/Time: 11/22/13 1000	Company: TA	Received by:	Date/Time: 11/22/13 0945	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

TestAmerica

Client Information	Sampler: Jeff Shockey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazoll	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	COC No: 680-51812-23156.1
Company: GEI Consultants, Inc.			Page: Page 1 of 1
Address: 1375 Peachtree Street NE Suite 415	Due Date Requested:		Job #: 680-96459
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104		
Email: abrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 68011684		
Site:	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0, 903.0, 9310, A91R_Th (Radionuclides)	6010_Total_Mass (Metals / Total Uranium)	9311_Ra - (MOD) XORAN Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	P	J	F	N	N	X	
J2-SS-3_SS	11-21-13	0-6	J2 Landfill	0800	C/G	S				1				1	1							2	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☒ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ... the PCB Congeners list.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/21/13 1000	GCI	[signature]	11/21/13 1000	GEI
[signature]	11/21/13 [illegible]	GEI	[signature]	11/21/13 [illegible]	[illegible]
[signature]	11/21/13 [illegible]	[illegible]	[signature]	11/22/13 0945	TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shatley	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 600-51812-23150.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.		Analysis Requested		Job #: 1750-26435
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			Preservation Codes: A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011684			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sediment, Concentrate, Air, Tissue, Other)	Total Number of Containers	6010B Filtered Sample (Yes or No)	6010B, 6020, and/or 6020A_TAR_Th (Radionuclides)	6020, 6020A, and/or 6020A_TAR_Th (Radionuclides)	6020, 6020A_Total_Mass (Actinides / Total Uranium)	6020A_Rad - (RCRA Target List plus Radionuclides)	8270D PAHs	8330 - SW006	8082 (8082A, 8082A_TAR) (Aroclors)	8260B (GC/MS) Compounds	8260C + 524.2 VOCs	8260C + 624.1 VOCs	8260C + 624.1 VOCs	8260C + 624.1 VOCs	8290A (PCB Congeners)	8290A (Dioxins and Furans)	Total Number of Containers	Special Instructions/Note:
					Preservation Codes:			X	X	N	N	N	N	N	N	N	N	P	V	V	V	N	N	
J2-SS-2_SS	11-21-13	0-6"	J2 Landfill	0825	C/G	S				1	1	2	1			1	1							7	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client; Disposal By Lab; Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not encapsulated prior to extraction. * - Dioxins will be sent to the PCB Congeners lab.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time: 11/21/13 1000	Company: GEI	Received by:	Date/Time: 11/21/13	Company: GEI
Relinquished by:	Date/Time: 11/21/13 1310	Company: GEI	Received by:	Date/Time: 11/21/13 1310	Company: TA
Relinquished by:	Date/Time: 11/22/13	Company: TA	Received by:	Date/Time: 11/22/13 0945	Company: TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shalkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-61812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.			Analysis Requested	Job #: 680-96184-1
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify), Other:
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.365.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011881			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, s=solid, o=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260_660_524.4_ABIR_Tb (Redwood/Std)	300_6020_Total_Pass (Acidized Total Uranium)	903.1_R4 - (NOD) NORM Target List (Radiochemistry)	8260 PAHs	8260 - SVOCs	8260 - VOCs	8260 - PCB (Congeners)	8260 - 8011 L2 VOCs	8260 - 8011 L2 VOCs	8260 - 8011 L2 VOCs	8260 - 8011 L2 VOCs	8260A (PCB Aroclors)	8260A (Display ANY formats)	Total Number of containers	Special Instructions/Note:
					Preservation Codes:		X	X	N	N	N	N	N	N	N	N	N	P	F	N	Z	X	
J2-SS-1_SS	11-21-13	0-6"	J2 Landfill	0855	C/G	S				1					1	1						3	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client, Disposal By Lab, Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to analysis. Please see the QC Comments for...

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 11/21/13 1000	Company: GEI	Received by:	Date/Time: 11/21/13	Company: GEI
Relinquished by:	Date/Time: 11/21/13 1300	Company: GEI	Received by:	Date/Time: 11/21/13 1300	Company: FX
Relinquished by:	Date/Time: 11/22/13	Company: FX	Received by:	Date/Time: 11/22/13 0945	Company: TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelley	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51612-23156.1
Client Contact: Ms. Andrea Brazel	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-91612-1
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770 355.9276 (cell)	PO #: 1322080-11-2104			
Email: nbrazel@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sediment, Groundwater, Surface Water, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9310, 9320 & 9315, A01R_Th (Perchlorate)	300.0, 6010_TCLP_Mass (Anions / Total Uranium)	9315_Ra - (PDQ) NORM Target List (Perchlorate)	8260 PARs	8260 - SVOCs	6010C, 6020A, 7470 (Hg)	8082 (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	6010A (Ba)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	P	F	F	N	N		
S17-SS-2_SS	11-21-13	0-6"	S-17	1200	C/G	S						1			1						1	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client; Disposal By Lab; Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: *Hold sample pending analytical results for collection. ** Indicates will be run from the PCB Congeners list.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time: 11/21/13 1300	Company: GEI	Received by:	Date/Time: 11/21/13 Bus	Company: GEI
Relinquished by:	Date/Time: 11-21-13 17:10	Company:	Received by:	Date/Time: 11/21/13 17:10	Company:
Relinquished by:	Date/Time: 11/21/13 2009	Company:	Received by:	Date/Time: 11/22/13 0945	Company: TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shipkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	COC No: 580-51612-23150.1
Company: GEI Consultants, Inc.			Page: Page 1 of 1
Address: 1375 Peachtree Street NE Suite A1S	Due Date Requested:		Job #: 580-92497
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 13230080-11-2104		
Email: abrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 58011864		
Site:	SSOW#:		

Analysis Requested

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

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, etc)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010, 6010, 6020, 6020A, 6020B, 7470, 7471 (Antimony, Arsenic, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc)	300_ORGFM_28D (Perchlorate)	8015B_Total_Plus (Antimony, Total Uranium)	9315_Ra-226(GO) 9320_Ra-228(GO) (Combined Radium 226 and 228)	9310_GrossAlpha_GrossBeta (Gross Alpha and Gross Beta)	8260B_TCL (TCL VOC)	8260B_TCL_TIC (TCL VOC + TICs)	8260B_6 (Benzene, Ethylbenzene, Toluene, Xylenes, Methyl tert-butyl ether, Naphthalene)	8260B_LL (Low Level VOC)	8260B_LL_TIC (Low Level VOC + TICs)	8260B_LL_6 (Low Level VOC)	8082A (PCB Aroclors)	8082A (Low Level PCB Aroclors)	Total Number of containers	Special Instructions/Note
					Preservation Code:				N	N	N	N	N	N	N	N	N	N	N	N	
BY-SS-4_SS	11-20-13	0-6"	Boneyard	1540	C/G	S				1					1						2
																					0
																					0
																					0
																					0
																					0
																					0
																					0
																					0
																					0

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☒ Archive Until GEI relocates for disposal

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners list.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	11/20/13 1700	GEI	Received by:	11/20/13 1700	GEI
Relinquished by:	11/21/13 1300	GEI	Received by:		
Relinquished by:	11/22/13 1106	GEI	Received by:	11/22/13 0945	TA

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shockey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	COC No: 580-51812-23168.1
Company: GEI Consultants, Inc.			Page: Page 1 of 1
Address: 1275 Peachtree Street NE Suite A15	Due Date Requested:		Job #: 580-41439
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104		
Email: pbrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 66011884		
Site:	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (Comp, Grab)	Matrix (Water, Solid, Soil, Air, Drum, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010A, 6020A, 7470A_Hg (Dissolved)	6010A, 6020A, 7470A_Hg (Total Recoverable)	9056_9012_Total_Cyanide (Total Recoverable)	9315_Ra - (GAS) NORM Target Unit (Radiochemistry)	8260 PAHs	8260 - SVOCs	8260_6020A_HF18 (Metals)	8260 (PCB Congeners)	8260 - Oxy E 3 VOCs	8260 - Oxy E 2 VOCs	8260 - Oxy E 2 VOCs	8260A (PCB Aroclors)	8260A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	N	P	J	F	N	N	
NS-SS-4_SS	11-20-13	0-6"	Northern Storage Area	1444	C/G	S									1							1	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

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

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☒ Archive Until GEI reinstruct for disposal.

Special Instructions/QC Requirements: VOCs were not preserved prior to collection. * - Dioxins will be run from the PCB Congeners list.

Empty Kit Relinquished by:		Date:		Time:	Method of Shipment:	
Relinquished by:	Date/Time: 11/20/13 2700	Company: GEI	Received by:	Date/Time: 11/20/13 1800	Company: GEI	
Relinquished by:	Date/Time: 11/21/13 0930	Company: GEI	Received by:	Date/Time: 11/21/13 1700	Company:	
Relinquished by:	Date/Time: 11/21/13	Company: TA	Received by:	Date/Time: 11/22/13 0945	Company: TA	

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information

Client Contact: Ms. Andrea Brazell	Sampler: Jeff Shotzky
Company: GEI Consultants, Inc.	Phone: 516.317.0245 (cell)
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters
State, Zip: GA, 30309	PO #: 1323080-11-2104
Phone: 404.522.0074 (direct) / 770.355.9275 (cell)	WO #:
Email: abrazell@geiconsultants.com	Project #: 08011804
Project Name: TIMET	SSOW#:
Site:	

Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
E-Mail: kathryn.smith@testamericainc.com	

COC No: 680-51812-23156.1
Page: Page 1 of 1
Job #:

Analysis Requested

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

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010_Ba, Be, Cd, Cr, Co, Cu, Ni, Pb, Sb, Se, Ag, Tl, V, Zn (Ba Only)	6010_Total_Ba (Ba Only)	6010_Ba - [HOA] (HOA Target List (Ba Only))	8151_Ba - [HOA] (HOA Target List (Ba Only))	TCLP PAHs	8260 - SVOCs	8270_(625)_TCLP (Ba Only)	8270 (PCB Congeners)	8260 - Ba List 2 VOCs	8260 - Ba List 2 VOCs	8260 - Ba List 2 VOCs	8260 - Ba List 2 VOCs	8082A (PCB Aroclors)	9056A (Anions and Fluoride)	Total Number of containers	Special Instructions/Note:
					Preservation Codes:		X	N	N	N	N	N	N	N	N	N	P	J	F	N	N			
NS-SS-3_SS	11-20-13	0-6"	Northern Storage Area	1505	C/G	S												1					2	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client; Disposal By Lab; Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners list.

Empty Kit Relinquished by: Date: Time: Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	11/20/13 1700	GEI		11/20/13 1700	GEI
Relinquished by:	11/21/13 1310	GEI		11/21/13 1310	GEI
Relinquished by:	11/22/13 0900	GEI	Received by:	11/22/13 0945	TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Joel Shelley	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazoll	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	COC No: 660-51812-23150.1
Company: GEI Consultants, Inc.			Page: Page 1 of 1
Address: 1375 Peachtree Street NE Suite A1S	Due Date Requested:		Job #: 430 - 76454
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2101		
Email: abrazoll@geiconsultants.com	WO #:		
Project Name: TRMET	Project #: 68011484		
Site:	SSOW#:		

Analysis Requested

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

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A, 9310, 9315, ASTM_Th (Radionuclides)	9310, 9315, Total_Alpha (Alpha) + Total Uranium	9315_Ra - (226) 9320A Target List (radium only)	8260B PAHs	8270D - SVOCs	8260B, 624A, 5035 (Methyl)	8260B GRO Component	8260C - 0.5L 1.2 VOCs	8260C - 0.5L 1.2 VOCs	8260C - 0.5L 1.2 VOCs	8260C - 0.5L 1.2 VOCs	6020A (Metals and Anions)	7196A (Metals and Anions)	Total Number of Containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	J	F	N	N		
NS-SS-2_SS	11-20-13	0-6"	Northern Storage Area	1455	C/G	S									1							1	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client; Disposal By Lab; Archive Until GEI releases for disposal

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. A - Thirsties will be sent to the PCB Component lab.

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 11/20/13 1700	Company: GEI	Received by: Joel Shelley	Date/Time: 11/20/13 1700	Company: GEI		
Relinquished by: Joel Shelley	Date/Time: 11/21/13 1230	Company: GEI	Received by:	Date/Time: 11/21/13 1230	Company: GEI		
Relinquished by:	Date/Time: 11/21/13	Company: FedEx	Received by:	Date/Time: 11/22/13 0945	Company: TA		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information

Client Contact: Ms. Andrea Brazell
Company: GEI Consultants, Inc.
Address: 1375 Peachtree Street NE Suite A15
City: Atlanta
State, Zip: GA, 30309
Phone: 404.592.0074 (direct) / 770.366.9276 (cell)
Email: abrazell@geiconsultants.com
Project Name: TIMET
Site:

Sampler: Jeff Shelkey
Phone: 516.317.0245 (cell)

Due Date Requested:
TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters
PO #: 1323080-11-2104
WO #:
Project #: 68011884
SSOW#:

Lab PM: Smith, Kathryn E
Email: kathy.smith@testamericainc.com
Carrier Tracking No(s):

COC No: 680-51812-23156.1
Page: Page 1 of 1
Job #:

Analysis Requested

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

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020, 7010, 7041A, ASTM_Th (Ra-Prep+Gfpc)	6020, 7010, 7041A, ASTM_Th (Ra-Prep+Gfpc)	6020, 6020, Total_Uran (Acid pres+Field filtered)	9315_Ra - (RAD) (KORD Target List (Ra-Prep+Gfpc+Field))	6010_PJMS	6010 - SVOCs	6010C, 6020A, 7471B (Hg/Mn)	6010C (Species Consistent)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	6020A (PCB Aroclors)	8082A (Dioxins at Frazon)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	X	X	N	N	N	N	N	N	N	N	P	J	F	N	N	
BY-SS-2_SS	11-20-13	0-6"	Boneyard	1525	C/G	S					1				1								2	
																							0	
																							0	
																							0	
																							0	
																							0	
																							0	
																							0	
																							0	
																							0	
																							0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client; Disposal By Lab; Archive Until GEI releases for disposal.

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Chromatogram.

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

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/20/13 1707	GEI		11/20/13 1707	ES&T
	11/21/13 1310	GEI		11/21/13 1310	TA
	11/21/13	TA		11/22/13 0945	TA

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51811-23157.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96439
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	A01R_U - (MOD) Local Method (Radionuclides)	A01R_Th - Standard Target List (Radionuclides)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	904.0 - Standard Target List (Radionuclides)	903.0 - Standard Target List (Radionuclides)	300 - (MOD) Local Method (Anions)	6010C, 6020A, 7470A (Metals)	900.0 - Standard Target List (Radionuclides)	8260C, OLM 4.2 (VOCs) 1/25	668C (PCB Congeners)	8032A (PCB-Aroclors) 1/25	8270D SVOCs (Project list to include PAHs)	8290 (Dioxins)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D	D	D	N	D	D	A	N	N	N	N		
BINSATE	11/21/13	1130	G	Water	N	N	1	1	1	1	1	1	1	1	X	2	X	2	2	13	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client, Disposal By Lab, Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Jeffrey B Shelkey	Date/Time: 11/21/13 1300	Company: GEI	Received by: [signature]	Date/Time: 11/21/13 1310	Company: TA
Relinquished by: [signature]	Date/Time: 11/21/13 1600	Company:	Received by: [signature]	Date/Time: 11/22/13 0945	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96439-1

Login Number: 96439

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

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

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96439-1

Login Number: 96439
List Number: 1
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento
List Creation: 11/22/13 02:58 PM

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.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96439-1

Login Number: 96439
List Number: 2
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento
List Creation: 11/22/13 02:58 PM

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.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96439-1

Login Number: 96439
List Number: 1
Creator: Daniels, Brian J

List Source: TestAmerica St. Louis
List Creation: 11/22/13 01:27 PM

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.	N/A	
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	1.7,2.1,2.2,1.5,2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	01-31-15
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	06-30-14
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	04-17-14 *
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	03-31-14 *
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	12-31-14
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14 *
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia DEP	State Program	3	94	06-30-14
West Virginia DHHR	State Program	3	9950C	12-31-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

Laboratory: TestAmerica Sacramento

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

* Expired certification is currently pending renewal and is considered valid.

Laboratory: TestAmerica Sacramento (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	03-31-14
Alaska (UST)	State Program	10	UST-055	12-18-13 *
Arizona	State Program	9	AZ0708	08-11-14
Arkansas DEQ	State Program	6	88-0691	06-17-14
California	State Program	9	2897	01-31-15
Colorado	State Program	8	N/A	08-31-14
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-14
Guam	State Program	9	N/A	08-31-14
Hawaii	State Program	9	N/A	01-29-15
Illinois	NELAP	5	200060	03-17-15
Kansas	NELAP	7	E-10375	10-31-14
Louisiana	NELAP	6	30612	06-30-14
Michigan	State Program	5	9947	01-31-15
Nebraska	State Program	7	NE-OS-22-13	01-29-15
Nevada	State Program	9	CA44	07-31-14
New Jersey	NELAP	2	CA005	06-30-14
New York	NELAP	2	11666	03-31-14
Northern Mariana Islands	State Program	9	MP0007	02-28-14 *
Oregon	NELAP	10	CA200005	01-29-15
Pennsylvania	NELAP	3	9947	03-31-14
South Carolina	State Program	4	87014	06-30-14
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-14
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	02-28-15
Washington	State Program	10	C581	05-05-14
West Virginia DHHR	State Program	3	9930C	12-31-14
Wyoming	State Program	8	8TMS-Q	02-28-14 *

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-14
California	NELAP	9	09266CA	03-31-14 *
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-14
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14
Kentucky (DW)	State Program	4	90125	12-31-14
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	LA140007	12-31-14
Maryland	State Program	3	310	09-30-14
Missouri	State Program	7	780	06-30-14
Nevada	State Program	9	MO000542013-1	07-31-14
New Jersey	NELAP	2	MO002	06-30-14
New Mexico	State Program	6		06-30-10 *

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11616	04-01-14 *
North Dakota	State Program	8	R207	06-30-14
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	2013-049	08-31-14
Pennsylvania	NELAP	3	68-00540	02-28-15
South Carolina	State Program	4	85002001	06-30-14
Texas	NELAP	6	T104704193-13-6	07-31-14
USDA	Federal		P330-07-00122	01-09-17
USEPA Reg V SDWA	Federal	1	WG-15J	08-30-14
Utah	NELAP	8	MO000542013-5	07-31-14
Virginia	NELAP	3	2236	06-14-14
Washington	State Program	10	C592	08-30-14
West Virginia DEP	State Program	3	381	08-30-14

* Expired certification is currently pending renewal and is considered valid.

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-96439-2	FM-SS-1_SS	109
680-96439-2 MS	FM-SS-1_SS	104
680-96439-2 MSD	FM-SS-1_SS	107
680-96439-3	FM-SS-1_SS DUP	113 X
680-96439-4	FM-SS-2_SS	108
680-96439-5	FM-SS-2_SS DUP	88.1
680-96439-6	FM-SS-3_SS	105
680-96439-7	FM-SS-4_SS	109
680-96439-9	NS-SS-1_SS	108
680-96439-10	NS-SS-5_SS	76.1
680-96439-11	BY-SS-3_SS	103
680-96439-11 MS	BY-SS-3_SS	109
680-96439-11 MSD	BY-SS-3_SS	112 X
680-96439-12	BY-SS-3_SS DUP	107
680-96439-14	J2-SS-2_SS	116 X
LCS 160-88153/2-A	Lab Control Sample	107
MB 160-88153/1-A	Method Blank	109

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-96439-22	RINSATE	94.4
680-96439-22 DU	RINSATE	97.6
LCS 160-87734/2-A	Lab Control Sample	104
MB 160-87734/1-A	Method Blank	101

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-96439-2	FM-SS-1_SS	109	86.7
680-96439-2 MS	FM-SS-1_SS	104	89.3
680-96439-2 MSD	FM-SS-1_SS	107	90.8
680-96439-3	FM-SS-1_SS DUP	113 X	86.7
680-96439-4	FM-SS-2_SS	108	89.0
680-96439-5	FM-SS-2_SS DUP	88.1	89.3
680-96439-6	FM-SS-3_SS	105	86.4
680-96439-7	FM-SS-4_SS	109	89.0
680-96439-9	NS-SS-1_SS	108	87.5

Method: 904.0 - Radium-228 (GFPC) (Continued)

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

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
680-96439-10	NS-SS-5_SS	76.1	88.6
680-96439-11	BY-SS-3_SS	103	92.3
680-96439-11 MS	BY-SS-3_SS	109	86.4
680-96439-11 MSD	BY-SS-3_SS	112 X	84.9
680-96439-12	BY-SS-3_SS DUP	107	86.0
680-96439-14	J2-SS-2_SS	116 X	87.9
LCS 160-88159/2-A	Lab Control Sample	107	92.0
MB 160-88159/1-A	Method Blank	109	87.9

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
680-96439-22	RINSATE	94.4	85.6
680-96439-22 DU	RINSATE	97.6	86.0
LCS 160-87736/2-A	Lab Control Sample	104	85.2
MB 160-87736/1-A	Method Blank	101	87.5

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Th-229 (30-110)
680-96439-2	FM-SS-1_SS	76.2
680-96439-2 MS	FM-SS-1_SS	83.8
680-96439-2 MSD	FM-SS-1_SS	83.3
680-96439-3	FM-SS-1_SS DUP	73.5
680-96439-4	FM-SS-2_SS	76.1
680-96439-5	FM-SS-2_SS DUP	81.1
680-96439-6	FM-SS-3_SS	82.2
680-96439-7	FM-SS-4_SS	78.6
680-96439-9	NS-SS-1_SS	81.7
680-96439-10	NS-SS-5_SS	75.8
680-96439-11	BY-SS-3_SS	95.8
680-96439-11 MS	BY-SS-3_SS	88.3
680-96439-11 MSD	BY-SS-3_SS	94.5
680-96439-12	BY-SS-3_SS DUP	79.9
680-96439-14	J2-SS-2_SS	80.1
LCS 160-92428/2-A	Lab Control Sample	90.0

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

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

		Percent Yield (Acceptance Limits)							
Lab Sample ID	Client Sample ID	Th-229 (30-110)							
LCS 160-94658/2-A	Lab Control Sample	85.6							
MB 160-92428/1-A	Method Blank	92.9							
MB 160-94658/1-A	Method Blank	90.4							

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)							
Lab Sample ID	Client Sample ID	Th-229 (30-110)							
680-96439-22	RINSATE	70.8							
LCS 160-94524/2-A	Lab Control Sample	73.2							
MB 160-94524/1-A	Method Blank	66.1							

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)							
Lab Sample ID	Client Sample ID	U-232 (30-110)							
680-96439-2	FM-SS-1_SS	83.9							
680-96439-2 MS	FM-SS-1_SS	83.1							
680-96439-2 MSD	FM-SS-1_SS	80.7							
680-96439-3	FM-SS-1_SS DUP	85.4							
680-96439-4	FM-SS-2_SS	76.5							
680-96439-5	FM-SS-2_SS DUP	89.1							
680-96439-6	FM-SS-3_SS	59.5							
680-96439-7	FM-SS-4_SS	87.2							
680-96439-9	NS-SS-1_SS	93.8							
680-96439-10	NS-SS-5_SS	90.2							
680-96439-11	BY-SS-3_SS	84.6							
680-96439-11 MS	BY-SS-3_SS	77.9							
680-96439-11 MSD	BY-SS-3_SS	76.7							
680-96439-12	BY-SS-3_SS DUP	81.4							
680-96439-14	J2-SS-2_SS	84.2							
LCS 160-92438/2-A	Lab Control Sample	90.4							
LCS 160-94660/2-A	Lab Control Sample	85.3							
MB 160-92438/1-A	Method Blank	92.8							
MB 160-94660/1-A	Method Blank	83.3							

Tracer/Carrier Legend

U-232 = Uranium-232

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)								
		U-232								
Lab Sample ID	Client Sample ID	(30-110)								
680-96439-22	RINSATE	84.0								
LCS 160-95550/2-A	Lab Control Sample	76.7								
LCSD 160-95550/3-A	Lab Control Sample Dup	78.0								
MB 160-95550/1-A	Method Blank	83.0								

Tracer/Carrier Legend

U-232 = Uranium-232

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: S17-SS-1_SS — Lab Sample ID: 680-96439-1

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		3.9	TEQ
Total TEQ					pg/g		3.9	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
2,3,7,8-TCDD	**0.11**	**J q**	2.1	0.039	pg/g	1	**0.11**	8290A
1,2,3,7,8-PeCDD	**0.27**	**J q**	10	0.061	pg/g	1	**0.27**	8290A
1,2,3,7,8-PeCDF	**2.6**	**J q**	10	0.046	pg/g	0.03	**0.078**	8290A
2,3,4,7,8-PeCDF	**2.7**	**J B**	10	0.048	pg/g	0.3	**0.81**	8290A
1,2,3,4,7,8-HxCDD	**0.23**	**J B q**	10	0.056	pg/g	0.1	**0.023**	8290A
1,2,3,6,7,8-HxCDD	**0.76**	**J q B**	10	0.040	pg/g	0.1	**0.076**	8290A
1,2,3,7,8,9-HxCDD	**1.0**	**J B**	10	0.041	pg/g	0.1	**0.10**	8290A
1,2,3,4,7,8-HxCDF	**8.0**	**J B**	10	0.054	pg/g	0.1	**0.80**	8290A
1,2,3,6,7,8-HxCDF	**4.6**	**J B**	10	0.040	pg/g	0.1	**0.46**	8290A
1,2,3,7,8,9-HxCDF	**0.38**	**J B q**	10	0.052	pg/g	0.1	**0.038**	8290A
2,3,4,6,7,8-HxCDF	**5.1**	**J B**	10	0.047	pg/g	0.1	**0.51**	8290A
1,2,3,4,6,7,8-HpCDD	**4.4**	**J B**	10	0.099	pg/g	0.01	**0.044**	8290A
1,2,3,4,6,7,8-HpCDF	**23**	**B**	10	0.082	pg/g	0.01	**0.23**	8290A
1,2,3,4,7,8,9-HpCDF	**4.7**	**J B**	10	0.097	pg/g	0.01	**0.047**	8290A
OCDD	**11**	**J B**	21	0.099	pg/g	0.0003	**0.0033**	8290A
OCDF	**92**	**B**	21	0.15	pg/g	0.0003	**0.028**	8290A
2,3,7,8-TCDF - RA	**2.7**	**B**	2.1	0.33	pg/g	0.1	**0.27**	8290A

Client Sample ID: FM-SS-1_SS — Lab Sample ID: 680-96439-2

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		1.2	TEQ
Total TEQ					pg/g		1.2	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**62**	**G**	6.2	6.2	pg/g	0.0001	**0.0062**	1668C
PCB-81	5.9	U G	5.9	5.9	pg/g	0.0003	0.00	1668C
PCB-105	**170**	**G**	5.7	5.7	pg/g	0.00003	**0.0051**	1668C
PCB-114	**13**	**G**	5.6	5.6	pg/g	0.00003	**0.00039**	1668C
PCB-118	**350**	**B G**	5.3	5.3	pg/g	0.00003	**0.011**	1668C
PCB-123	5.3	U G	5.3	5.3	pg/g	0.00003	0.00	1668C
PCB-126	**12**	**G**	6.3	6.3	pg/g	0.1	**1.2**	1668C
PCB-156/157	**78**		8.0	3.3	pg/g	0.00003	**0.0023**	1668C
PCB-167	**25**		4.0	2.6	pg/g	0.00003	**0.00075**	1668C
PCB-169	3.0	U	4.0	3.0	pg/g	0.03	0.00	1668C
PCB-189	**10**		4.0	1.1	pg/g	0.00003	**0.00030**	1668C

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-1_SS DUP

Lab Sample ID: 680-96439-3

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		1.4	TEQ
Total TEQ					pg/g		1.4	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**75**	**G**	7.9	7.9	pg/g	0.0001	**0.0075**	1668C
PCB-81	7.8	U G	7.8	7.8	pg/g	0.0003	0.00	1668C
PCB-105	**200**	**G**	8.0	8.0	pg/g	0.00003	**0.0060**	1668C
PCB-114	**18**	**G**	7.7	7.7	pg/g	0.00003	**0.00054**	1668C
PCB-118	**400**	**B G**	7.3	7.3	pg/g	0.00003	**0.012**	1668C
PCB-123	7.4	U G	7.4	7.4	pg/g	0.00003	0.00	1668C
PCB-126	**14**	**q G**	8.6	8.6	pg/g	0.1	**1.4**	1668C
PCB-156/157	**94**		8.0	4.8	pg/g	0.00003	**0.0028**	1668C
PCB-167	**29**		4.0	4.0	pg/g	0.00003	**0.00087**	1668C
PCB-169	4.3	U G	4.3	4.3	pg/g	0.03	0.00	1668C
PCB-189	**14**		4.0	1.5	pg/g	0.00003	**0.00042**	1668C

Client Sample ID: FM-SS-2_SS

Lab Sample ID: 680-96439-4

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		17	TEQ
Total PCB TEQ					pg/g		0.013	TEQ
Total TEQ					pg/g		17	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**16**	**J q**	81	9.8	pg/g	0.0001	**0.0016**	1668C
PCB-81	9.8	U	81	9.8	pg/g	0.0003	0.00	1668C
PCB-105	**120**		81	7.9	pg/g	0.00003	**0.0036**	1668C
PCB-114	7.2	U	81	7.2	pg/g	0.00003	0.00	1668C
PCB-118	**220**	**B**	81	7.0	pg/g	0.00003	**0.0066**	1668C
PCB-123	7.2	U	81	7.2	pg/g	0.00003	0.00	1668C
PCB-126	10	U	81	10	pg/g	0.1	0.00	1668C
PCB-156/157	**41**	**J**	160	6.8	pg/g	0.00003	**0.0012**	1668C
PCB-167	**13**	**J**	81	4.7	pg/g	0.00003	**0.00039**	1668C
PCB-169	7.8	U	81	7.8	pg/g	0.03	0.00	1668C
PCB-189	7.8	U	81	7.8	pg/g	0.00003	0.00	1668C
2,3,7,8-TCDD	**0.34**	**J**	2.0	0.043	pg/g	1	**0.34**	8290A
1,2,3,7,8-PeCDD	**0.47**	**J**	10	0.076	pg/g	1	**0.47**	8290A
1,2,3,7,8-PeCDF	**15**		10	0.11	pg/g	0.03	**0.45**	8290A
2,3,4,7,8-PeCDF	**6.9**	**J**	10	0.11	pg/g	0.3	**2.1**	8290A
1,2,3,4,7,8-HxCDD	**0.38**	**J**	10	0.066	pg/g	0.1	**0.038**	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-2_SS (Continued) — Lab Sample ID: 680-96439-4

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
1,2,3,6,7,8-HxCDD	0.75	J	10	0.047	pg/g	0.1	0.075	8290A
1,2,3,7,8,9-HxCDD	0.57	J q	10	0.048	pg/g	0.1	0.057	8290A
1,2,3,4,7,8-HxCDF	72		10	0.14	pg/g	0.1	7.2	8290A
1,2,3,6,7,8-HxCDF	14		10	0.10	pg/g	0.1	1.4	8290A
1,2,3,7,8,9-HxCDF	2.2	J	10	0.13	pg/g	0.1	0.22	8290A
2,3,4,6,7,8-HxCDF	6.6	J	10	0.12	pg/g	0.1	0.66	8290A
1,2,3,4,6,7,8-HpCDD	3.8	J B	10	0.11	pg/g	0.01	0.038	8290A
1,2,3,4,6,7,8-HpCDF	81	B	10	0.35	pg/g	0.01	0.81	8290A
1,2,3,4,7,8,9-HpCDF	42	B	10	0.42	pg/g	0.01	0.42	8290A
OCDD	35	B	20	0.22	pg/g	0.0003	0.011	8290A
OCDF	4600	B	20	1.2	pg/g	0.0003	1.4	8290A
2,3,7,8-TCDF - RA	17		2.0	0.076	pg/g	0.1	1.7	8290A

Client Sample ID: FM-SS-2_SS DUP — Lab Sample ID: 680-96439-5

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		64	TEQ
Total PCB TEQ					pg/g		0.023	TEQ
Total TEQ					pg/g		64	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	36	J	81	20	pg/g	0.0001	0.0036	1668C
PCB-81	18	U	81	18	pg/g	0.0003	0.00	1668C
PCB-105	180		81	16	pg/g	0.00003	0.0054	1668C
PCB-114	15	U	81	15	pg/g	0.00003	0.00	1668C
PCB-118	380	B	81	15	pg/g	0.00003	0.011	1668C
PCB-123	14	U	81	14	pg/g	0.00003	0.00	1668C
PCB-126	22	U	81	22	pg/g	0.1	0.00	1668C
PCB-156/157	72	J	160	11	pg/g	0.00003	0.0022	1668C
PCB-167	21	J q	81	8.0	pg/g	0.00003	0.00063	1668C
PCB-169	13	U	81	13	pg/g	0.03	0.00	1668C
PCB-189	14	U	81	14	pg/g	0.00003	0.00	1668C
2,3,7,8-TCDD	1.1	J q	2.0	0.15	pg/g	1	1.1	8290A
1,2,3,7,8-PeCDD	2.6	J	10	0.40	pg/g	1	2.6	8290A
1,2,3,7,8-PeCDF	58		10	0.42	pg/g	0.03	1.7	8290A
2,3,4,7,8-PeCDF	27		10	0.43	pg/g	0.3	8.1	8290A
1,2,3,4,7,8-HxCDD	1.6	J	10	0.24	pg/g	0.1	0.16	8290A
1,2,3,6,7,8-HxCDD	3.6	J	10	0.17	pg/g	0.1	0.36	8290A
1,2,3,7,8,9-HxCDD	3.9	J	10	0.17	pg/g	0.1	0.39	8290A
1,2,3,4,7,8-HxCDF	250		10	0.57	pg/g	0.1	25	8290A
1,2,3,6,7,8-HxCDF	56		10	0.43	pg/g	0.1	5.6	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: FM-SS-2_SS DUP (Continued)

Lab Sample ID: 680-96439-5

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
1,2,3,7,8,9-HxCDF	7.5	J	10	0.55	pg/g	0.1	0.75	8290A
2,3,4,6,7,8-HxCDF	20		10	0.50	pg/g	0.1	2.0	8290A
1,2,3,4,6,7,8-HpCDD	18	B	10	0.36	pg/g	0.01	0.18	8290A
1,2,3,4,6,7,8-HpCDF	270	B	10	1.3	pg/g	0.01	2.7	8290A
1,2,3,4,7,8,9-HpCDF	150	B	10	1.5	pg/g	0.01	1.5	8290A
OCDD	130	B	20	0.57	pg/g	0.0003	0.039	8290A
OCDF	14000	E B	20	4.4	pg/g	0.0003	4.2	8290A
2,3,7,8-TCDF - RA	75		2.0	0.23	pg/g	0.1	7.5	8290A

Client Sample ID: FM-SS-3_SS

Lab Sample ID: 680-96439-6

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		180	TEQ
Total PCB TEQ					pg/g		0.079	TEQ
Total TEQ					pg/g		180	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	93		81	55	pg/g	0.0001	0.0093	1668C
PCB-81	54	U	81	54	pg/g	0.0003	0.00	1668C
PCB-105	600		81	38	pg/g	0.00003	0.018	1668C
PCB-114	95	q	81	36	pg/g	0.00003	0.0029	1668C
PCB-118	1200	B	81	35	pg/g	0.00003	0.036	1668C
PCB-123	34	U	81	34	pg/g	0.00003	0.00	1668C
PCB-126	49	U	81	49	pg/g	0.1	0.00	1668C
PCB-156/157	300		160	32	pg/g	0.00003	0.0090	1668C
PCB-167	71	J	81	23	pg/g	0.00003	0.0021	1668C
PCB-169	34	U	81	34	pg/g	0.03	0.00	1668C
PCB-189	55	J	81	14	pg/g	0.00003	0.0017	1668C
2,3,7,8-TCDD	1.7	J q	2.0	0.081	pg/g	1	1.7	8290A
1,2,3,7,8-PeCDD	4.2	J	10	0.20	pg/g	1	4.2	8290A
1,2,3,7,8-PeCDF	140		10	0.46	pg/g	0.03	4.2	8290A
2,3,4,7,8-PeCDF	61		10	0.48	pg/g	0.3	18	8290A
1,2,3,4,7,8-HxCDD	3.6	J q	10	0.27	pg/g	0.1	0.36	8290A
1,2,3,6,7,8-HxCDD	7.0	J	10	0.19	pg/g	0.1	0.70	8290A
1,2,3,7,8,9-HxCDD	6.6	J	10	0.20	pg/g	0.1	0.66	8290A
1,2,3,4,7,8-HxCDF	700		10	0.78	pg/g	0.1	70	8290A
1,2,3,6,7,8-HxCDF	120		10	0.58	pg/g	0.1	12	8290A
1,2,3,7,8,9-HxCDF	23		10	0.75	pg/g	0.1	2.3	8290A
2,3,4,6,7,8-HxCDF	56		10	0.68	pg/g	0.1	5.6	8290A
1,2,3,4,6,7,8-HpCDD	43	B	10	0.40	pg/g	0.01	0.43	8290A
1,2,3,4,6,7,8-HpCDF	980	B	10	1.4	pg/g	0.01	9.8	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client Sample ID: FM-SS-3_SS (Continued)

Lab Sample ID: 680-96439-6

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
1,2,3,4,7,8,9-HpCDF	480	B	10	1.7	pg/g	0.01	4.8	8290A
OCDD	450	B	20	0.38	pg/g	0.0003	0.14	8290A
OCDF - DL	100000	B	400	97	pg/g	0.0003	30	8290A
2,3,7,8-TCDF - RA	130		2.0	0.16	pg/g	0.1	13	8290A

Client Sample ID: FM-SS-4_SS

Lab Sample ID: 680-96439-7

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		3.5	TEQ
Total TEQ					pg/g		3.5	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	72	G	20	20	pg/g	0.0001	0.0072	1668C
PCB-81	19	U G	19	19	pg/g	0.0003	0.00	1668C
PCB-105	660	G	22	22	pg/g	0.00003	0.020	1668C
PCB-114	54	G	21	21	pg/g	0.00003	0.0016	1668C
PCB-118	1500	B G	20	20	pg/g	0.00003	0.045	1668C
PCB-123	20	U G	20	20	pg/g	0.00003	0.00	1668C
PCB-126	31	G	23	23	pg/g	0.1	3.1	1668C
PCB-156/157	260	G	12	12	pg/g	0.00003	0.0078	1668C
PCB-167	75	G	9.3	9.3	pg/g	0.00003	0.0023	1668C
PCB-169	11	G	10	10	pg/g	0.03	0.33	1668C
PCB-189	32		4.2	2.8	pg/g	0.00003	0.00096	1668C

Client Sample ID: BY-SS-1_SS

Lab Sample ID: 680-96439-8

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		12	TEQ
Total TEQ					pg/g		12	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	370	G	9.3	9.3	pg/g	0.0001	0.037	1668C
PCB-81	13	G	9.2	9.2	pg/g	0.0003	0.0039	1668C
PCB-105	1900	G	41	41	pg/g	0.00003	0.057	1668C
PCB-114	47	G	40	40	pg/g	0.00003	0.0014	1668C
PCB-118	3100	B G	37	37	pg/g	0.00003	0.093	1668C
PCB-123	38	U G	38	38	pg/g	0.00003	0.00	1668C
PCB-126	110	G	46	46	pg/g	0.1	11	1668C

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: BY-SS-1_SS (Continued)

Lab Sample ID: 680-96439-8

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-156/157	780	G	9.1	9.1	pg/g	0.00003	0.023	1668C
PCB-167	280	G	7.1	7.1	pg/g	0.00003	0.0084	1668C
PCB-169	13	G	8.2	8.2	pg/g	0.03	0.39	1668C
PCB-189	67		4.0	0.93	pg/g	0.00003	0.0020	1668C

Client Sample ID: NS-SS-1_SS

Lab Sample ID: 680-96439-9

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		8000	TEQ
Total PCB TEQ					pg/g		100	TEQ
Total TEQ					pg/g		8100	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77 - DL	1100	G	170	170	pg/g	0.0001	0.11	1668C
PCB-81 - DL	710	G	160	160	pg/g	0.0003	0.21	1668C
PCB-105 - DL	2800	G	380	380	pg/g	0.00003	0.084	1668C
PCB-114 - DL	1000	G	350	350	pg/g	0.00003	0.030	1668C
PCB-118 - DL	4700	B G	330	330	pg/g	0.00003	0.14	1668C
PCB-123 - DL	330	U G	330	330	pg/g	0.00003	0.00	1668C
PCB-126 - DL	870	G	360	360	pg/g	0.1	87	1668C
PCB-156/157 - DL	2600	G	300	300	pg/g	0.00003	0.078	1668C
PCB-167 - DL	2500	G	250	250	pg/g	0.00003	0.075	1668C
PCB-169 - DL	430	G	260	260	pg/g	0.03	13	1668C
PCB-189 - DL	2700	G	58	58	pg/g	0.00003	0.081	1668C
2,3,7,8-TCDD	250		43	6.0	pg/g	1	250	8290A
1,2,3,7,8-PeCDD	760		210	11	pg/g	1	760	8290A
1,2,3,7,8-PeCDF	9400		210	38	pg/g	0.03	280	8290A
2,3,4,7,8-PeCDF	4900	B	210	39	pg/g	0.3	1500	8290A
1,2,3,4,7,8-HxCDD	480	B	210	4.6	pg/g	0.1	48	8290A
1,2,3,6,7,8-HxCDD	1200	B	210	4.1	pg/g	0.1	120	8290A
1,2,3,7,8,9-HxCDD	1100	B	210	3.8	pg/g	0.1	110	8290A
1,2,3,4,7,8-HxCDF	23000	B	210	31	pg/g	0.1	2300	8290A
1,2,3,6,7,8-HxCDF	10000	B	210	27	pg/g	0.1	1000	8290A
1,2,3,7,8,9-HxCDF	1200	B	210	32	pg/g	0.1	120	8290A
2,3,4,6,7,8-HxCDF	4200	B	210	29	pg/g	0.1	420	8290A
1,2,3,4,6,7,8-HpCDD	3900	B	210	9.4	pg/g	0.01	39	8290A
1,2,3,4,6,7,8-HpCDF	43000	B	210	29	pg/g	0.01	430	8290A
1,2,3,4,7,8,9-HpCDF	16000	B	210	34	pg/g	0.01	160	8290A
OCDD	4500	B	430	2.4	pg/g	0.0003	1.4	8290A
OCDF	130000	B	430	9.8	pg/g	0.0003	39	8290A
2,3,7,8-TCDF - RADL	4500	B G	100	100	pg/g	0.1	450	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: NS-SS-5_SS — Lab Sample ID: 680-96439-10

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	TEQ	Method
Total Dioxin/Furan TEQ					pg/g		11	TEQ
Total PCB TEQ					pg/g		0.048	TEQ
Total TEQ					pg/g		11	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	TEQ	Method
PCB-77	**20**		4.1	2.6	pg/g	0.0001	**0.0020**	1668C
PCB-81	2.5	U	4.1	2.5	pg/g	0.0003	0.00	1668C
PCB-105	**360**	**G**	16	16	pg/g	0.00003	**0.011**	1668C
PCB-114	**18**	**q G**	15	15	pg/g	0.00003	**0.00054**	1668C
PCB-118	**820**	**B G**	14	14	pg/g	0.00003	**0.025**	1668C
PCB-123	14	U G	14	14	pg/g	0.00003	0.00	1668C
PCB-126	18	U G	18	18	pg/g	0.1	0.00	1668C
PCB-156/157	**220**		8.2	2.5	pg/g	0.00003	**0.0066**	1668C
PCB-167	**69**		4.1	1.9	pg/g	0.00003	**0.0021**	1668C
PCB-169	2.4	U	4.1	2.4	pg/g	0.03	0.00	1668C
PCB-189	**13**		4.1	0.95	pg/g	0.00003	**0.00039**	1668C
2,3,7,8-TCDD	**0.34**	**J**	2.0	0.064	pg/g	1	**0.34**	8290A
1,2,3,7,8-PeCDD	**0.66**	**J q**	10	0.16	pg/g	1	**0.66**	8290A
1,2,3,7,8-PeCDF	**12**		10	0.26	pg/g	0.03	**0.36**	8290A
2,3,4,7,8-PeCDF	**6.7**	**J B**	10	0.27	pg/g	0.3	**2.0**	8290A
1,2,3,4,7,8-HxCDD	**0.91**	**J B q**	10	0.13	pg/g	0.1	**0.091**	8290A
1,2,3,6,7,8-HxCDD	**1.9**	**J B**	10	0.089	pg/g	0.1	**0.19**	8290A
1,2,3,7,8,9-HxCDD	**2.0**	**J B q**	10	0.092	pg/g	0.1	**0.20**	8290A
1,2,3,4,7,8-HxCDF	**26**	**B**	10	0.20	pg/g	0.1	**2.6**	8290A
1,2,3,6,7,8-HxCDF	**16**	**B**	10	0.15	pg/g	0.1	**1.6**	8290A
1,2,3,7,8,9-HxCDF	**2.0**	**J B q**	10	0.19	pg/g	0.1	**0.20**	8290A
2,3,4,6,7,8-HxCDF	**5.9**	**J B**	10	0.18	pg/g	0.1	**0.59**	8290A
1,2,3,4,6,7,8-HpCDD	**6.1**	**J B**	10	0.24	pg/g	0.01	**0.061**	8290A
1,2,3,4,6,7,8-HpCDF	**72**	**B**	10	0.23	pg/g	0.01	**0.72**	8290A
1,2,3,4,7,8,9-HpCDF	**24**	**B**	10	0.27	pg/g	0.01	**0.24**	8290A
OCDD	**16**	**J B**	20	0.21	pg/g	0.0003	**0.0048**	8290A
OCDF	**350**	**B**	20	0.29	pg/g	0.0003	**0.11**	8290A
2,3,7,8-TCDF - RA	**8.8**	**B**	2.0	0.12	pg/g	0.1	**0.88**	8290A

Client Sample ID: BY-SS-3_SS — Lab Sample ID: 680-96439-11

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	TEQ	Method
Total Dioxin/Furan TEQ					pg/g		40	TEQ
Total PCB TEQ					pg/g		9.1	TEQ
Total TEQ					pg/g		49	TEQ

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client Sample ID: BY-SS-3_SS (Continued)

Lab Sample ID: 680-96439-11

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77 - DL	**240**		82	12	pg/g	0.0001	**0.024**	1668C
PCB-81 - DL	12	U	82	12	pg/g	0.0003	0.00	1668C
PCB-105 - DL	**1100**		82	29	pg/g	0.00003	**0.033**	1668C
PCB-114 - DL	29	U	82	29	pg/g	0.00003	0.00	1668C
PCB-118 - DL	**2100**	**B**	82	28	pg/g	0.00003	**0.063**	1668C
PCB-123 - DL	28	U	82	28	pg/g	0.00003	0.00	1668C
PCB-126 - DL	**90**		82	35	pg/g	0.1	**9.0**	1668C
PCB-156/157 - DL	**520**		160	12	pg/g	0.00003	**0.016**	1668C
PCB-167 - DL	**190**		82	9.6	pg/g	0.00003	**0.0057**	1668C
PCB-169 - DL	11	U	82	11	pg/g	0.03	0.00	1668C
PCB-189 - DL	**31**	**J**	82	6.6	pg/g	0.00003	**0.00093**	1668C
2,3,7,8-TCDD	**1.1**	**J**	2.1	0.058	pg/g	1	**1.1**	8290A
1,2,3,7,8-PeCDD	**3.7**	**J**	10	0.097	pg/g	1	**3.7**	8290A
1,2,3,7,8-PeCDF	**41**		10	0.22	pg/g	0.03	**1.2**	8290A
2,3,4,7,8-PeCDF	**24**	**B**	10	0.23	pg/g	0.3	**7.2**	8290A
1,2,3,4,7,8-HxCDD	**3.4**	**J B**	10	0.10	pg/g	0.1	**0.34**	8290A
1,2,3,6,7,8-HxCDD	**5.6**	**J B**	10	0.073	pg/g	0.1	**0.56**	8290A
1,2,3,7,8,9-HxCDD	**6.8**	**J B**	10	0.075	pg/g	0.1	**0.68**	8290A
1,2,3,4,7,8-HxCDF	**110**	**B**	10	0.27	pg/g	0.1	**11**	8290A
1,2,3,6,7,8-HxCDF	**55**	**B**	10	0.20	pg/g	0.1	**5.5**	8290A
1,2,3,7,8,9-HxCDF	**6.9**	**J B**	10	0.26	pg/g	0.1	**0.69**	8290A
2,3,4,6,7,8-HxCDF	**17**	**B**	10	0.23	pg/g	0.1	**1.7**	8290A
1,2,3,4,6,7,8-HpCDD	**24**	**B**	10	0.15	pg/g	0.01	**0.24**	8290A
1,2,3,4,6,7,8-HpCDF	**200**	**B**	10	0.74	pg/g	0.01	**2.0**	8290A
1,2,3,4,7,8,9-HpCDF	**65**	**B**	10	0.87	pg/g	0.01	**0.65**	8290A
OCDD	**45**	**B**	21	0.12	pg/g	0.0003	**0.014**	8290A
OCDF	**610**	**B**	21	0.30	pg/g	0.0003	**0.18**	8290A
2,3,7,8-TCDF - RA	**30**	**B**	2.1	0.12	pg/g	0.1	**3.0**	8290A

Client Sample ID: BY-SS-3_SS DUP

Lab Sample ID: 680-96439-12

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		45	TEQ
Total PCB TEQ					pg/g		8.2	TEQ
Total TEQ					pg/g		53	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**270**	**G**	4.4	4.4	pg/g	0.0001	**0.027**	1668C
PCB-81	**5.5**	**G q**	4.4	4.4	pg/g	0.0003	**0.0017**	1668C
PCB-105	**1200**	**G**	23	23	pg/g	0.00003	**0.036**	1668C
PCB-114	**26**	**G**	22	22	pg/g	0.00003	**0.00078**	1668C

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client Sample ID: BY-SS-3_SS DUP (Continued)

Lab Sample ID: 680-96439-12

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-118	2100	G B	21	21	pg/g	0.00003	0.063	1668C
PCB-123	22	U G	22	22	pg/g	0.00003	0.00	1668C
PCB-126	81	G	25	25	pg/g	0.1	8.1	1668C
PCB-156/157	480		8.3	5.1	pg/g	0.00003	0.014	1668C
PCB-167	170		4.2	4.0	pg/g	0.00003	0.0051	1668C
PCB-169	4.6	U G	4.6	4.6	pg/g	0.03	0.00	1668C
PCB-189	32		4.2	0.90	pg/g	0.00003	0.00096	1668C
2,3,7,8-TCDD	1.2	J	2.1	0.051	pg/g	1	1.2	8290A
1,2,3,7,8-PeCDD	3.9	J	10	0.15	pg/g	1	3.9	8290A
1,2,3,7,8-PeCDF	45		10	0.23	pg/g	0.03	1.4	8290A
2,3,4,7,8-PeCDF	27	B	10	0.24	pg/g	0.3	8.1	8290A
1,2,3,4,7,8-HxCDD	3.5	J B	10	0.073	pg/g	0.1	0.35	8290A
1,2,3,6,7,8-HxCDD	6.8	J B	10	0.052	pg/g	0.1	0.68	8290A
1,2,3,7,8,9-HxCDD	7.5	J B	10	0.053	pg/g	0.1	0.75	8290A
1,2,3,4,7,8-HxCDF	120	B	10	0.26	pg/g	0.1	12	8290A
1,2,3,6,7,8-HxCDF	63	B	10	0.19	pg/g	0.1	6.3	8290A
1,2,3,7,8,9-HxCDF	5.8	J B	10	0.25	pg/g	0.1	0.58	8290A
2,3,4,6,7,8-HxCDF	23	B	10	0.23	pg/g	0.1	2.3	8290A
1,2,3,4,6,7,8-HpCDD	32	B	10	0.19	pg/g	0.01	0.32	8290A
1,2,3,4,6,7,8-HpCDF	260	B	10	0.42	pg/g	0.01	2.6	8290A
1,2,3,4,7,8,9-HpCDF	81	B	10	0.49	pg/g	0.01	0.81	8290A
OCDD	88	B	21	0.22	pg/g	0.0003	0.026	8290A
OCDF	750	B	21	0.45	pg/g	0.0003	0.23	8290A
2,3,7,8-TCDF - RA	32	B	2.1	0.15	pg/g	0.1	3.2	8290A

Client Sample ID: J2-SS-3_SS

Lab Sample ID: 680-96439-13

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		9.1	TEQ
Total TEQ					pg/g		9.1	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	210	G	9.4	9.4	pg/g	0.0001	0.021	1668C
PCB-81	9.3	U G	9.3	9.3	pg/g	0.0003	0.00	1668C
PCB-105	1200	G	25	25	pg/g	0.00003	0.036	1668C
PCB-114	41	G	24	24	pg/g	0.00003	0.0012	1668C
PCB-118	2100	B G	23	23	pg/g	0.00003	0.063	1668C
PCB-123	30	G	23	23	pg/g	0.00003	0.00090	1668C
PCB-126	87	G	28	28	pg/g	0.1	8.7	1668C
PCB-156/157	600		8.1	6.7	pg/g	0.00003	0.018	1668C
PCB-167	230	G	5.2	5.2	pg/g	0.00003	0.0069	1668C

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client Sample ID: J2-SS-3_SS (Continued)

Lab Sample ID: 680-96439-13

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-169	9.2	G	6.4	6.4	pg/g	0.03	0.28	1668C
PCB-189	60		4.0	0.88	pg/g	0.00003	0.0018	1668C

Client Sample ID: J2-SS-2_SS

Lab Sample ID: 680-96439-14

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		17	TEQ
Total PCB TEQ					pg/g		0.088	TEQ
Total TEQ					pg/g		17	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	150		42	17	pg/g	0.0001	0.015	1668C
PCB-81	17	U	42	17	pg/g	0.0003	0.00	1668C
PCB-105	750		42	26	pg/g	0.00003	0.023	1668C
PCB-114	24	U	42	24	pg/g	0.00003	0.00	1668C
PCB-118	1300	B	42	24	pg/g	0.00003	0.039	1668C
PCB-123	23	U	42	23	pg/g	0.00003	0.00	1668C
PCB-126	32	U	42	32	pg/g	0.1	0.00	1668C
PCB-156/157	260		84	11	pg/g	0.00003	0.0078	1668C
PCB-167	91		42	8.5	pg/g	0.00003	0.0027	1668C
PCB-169	10	U	42	10	pg/g	0.03	0.00	1668C
PCB-189	22	J	42	11	pg/g	0.00003	0.00066	1668C
2,3,7,8-TCDD	0.54	J	2.1	0.035	pg/g	1	0.54	8290A
1,2,3,7,8-PeCDD	1.1	J	10	0.070	pg/g	1	1.1	8290A
1,2,3,7,8-PeCDF	15		10	0.088	pg/g	0.03	0.45	8290A
2,3,4,7,8-PeCDF	9.6	J B	10	0.092	pg/g	0.3	2.9	8290A
1,2,3,4,7,8-HxCDD	0.75	J B q	10	0.050	pg/g	0.1	0.075	8290A
1,2,3,6,7,8-HxCDD	2.7	J B	10	0.035	pg/g	0.1	0.27	8290A
1,2,3,7,8,9-HxCDD	3.3	J B	10	0.037	pg/g	0.1	0.33	8290A
1,2,3,4,7,8-HxCDF	39	B	10	0.096	pg/g	0.1	3.9	8290A
1,2,3,6,7,8-HxCDF	18	B	10	0.072	pg/g	0.1	1.8	8290A
1,2,3,7,8,9-HxCDF	1.8	J B	10	0.093	pg/g	0.1	0.18	8290A
2,3,4,6,7,8-HxCDF	6.7	J B	10	0.084	pg/g	0.1	0.67	8290A
1,2,3,4,6,7,8-HpCDD	14	B	10	0.12	pg/g	0.01	0.14	8290A
1,2,3,4,6,7,8-HpCDF	110	B	10	0.22	pg/g	0.01	1.1	8290A
1,2,3,4,7,8,9-HpCDF	31	B	10	0.26	pg/g	0.01	0.31	8290A
OCDD	95	B	21	0.18	pg/g	0.0003	0.029	8290A
OCDF	1400	B	21	0.50	pg/g	0.0003	0.42	8290A
2,3,7,8-TCDF - RA	27	B	2.1	0.10	pg/g	0.1	2.7	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: J2-SS-1_SS — Lab Sample ID: 680-96439-15

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		49	TEQ
Total TEQ					pg/g		49	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**2200**	**G**	57	57	pg/g	0.0001	**0.22**	1668C
PCB-81	57	U G	57	57	pg/g	0.0003	0.00	1668C
PCB-105	**11000**	**E G**	170	170	pg/g	0.00003	**0.33**	1668C
PCB-114	**220**	**G**	160	160	pg/g	0.00003	**0.0066**	1668C
PCB-118	**18000**	**E B G**	150	150	pg/g	0.00003	**0.54**	1668C
PCB-123	**260**	**G**	160	160	pg/g	0.00003	**0.0078**	1668C
PCB-126	**480**	**G**	190	190	pg/g	0.1	**48**	1668C
PCB-156/157	**4300**	**G**	53	53	pg/g	0.00003	**0.13**	1668C
PCB-167	**1500**	**G**	41	41	pg/g	0.00003	**0.045**	1668C
PCB-169	49	U G	49	49	pg/g	0.03	0.00	1668C
PCB-189	**440**	**G**	5.6	5.6	pg/g	0.00003	**0.013**	1668C

Client Sample ID: S17-SS-2_SS — Lab Sample ID: 680-96439-16

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		110	TEQ
Total PCB TEQ					pg/g		0.16	TEQ
Total TEQ					pg/g		110	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**280**		40	24	pg/g	0.0001	**0.028**	1668C
PCB-81	22	U	40	22	pg/g	0.0003	0.00	1668C
PCB-105	**1300**	**G**	43	43	pg/g	0.00003	**0.039**	1668C
PCB-114	**54**	**G**	41	41	pg/g	0.00003	**0.0016**	1668C
PCB-118	**2200**	**B**	40	38	pg/g	0.00003	**0.066**	1668C
PCB-123	38	U	40	38	pg/g	0.00003	0.00	1668C
PCB-126	54	U G	54	54	pg/g	0.1	0.00	1668C
PCB-156/157	**520**		80	15	pg/g	0.00003	**0.016**	1668C
PCB-167	**180**		40	11	pg/g	0.00003	**0.0054**	1668C
PCB-169	14	U	40	14	pg/g	0.03	0.00	1668C
PCB-189	**58**		40	9.3	pg/g	0.00003	**0.0017**	1668C
2,3,7,8-TCDD	**3.1**		2.0	0.055	pg/g	1	**3.1**	8290A
1,2,3,7,8-PeCDD	**9.9**	**J**	10	0.15	pg/g	1	**9.9**	8290A
1,2,3,7,8-PeCDF	**120**		10	0.45	pg/g	0.03	**3.6**	8290A
2,3,4,7,8-PeCDF	**68**	**B**	10	0.47	pg/g	0.3	**20**	8290A
1,2,3,4,7,8-HxCDD	**8.4**	**J B**	10	0.092	pg/g	0.1	**0.84**	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client Sample ID: S17-SS-2_SS (Continued)

Lab Sample ID: 680-96439-16

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
1,2,3,6,7,8-HxCDD	15	B	10	0.065	pg/g	0.1	1.5	8290A
1,2,3,7,8,9-HxCDD	17	B	10	0.067	pg/g	0.1	1.7	8290A
1,2,3,4,7,8-HxCDF	300	B	10	0.52	pg/g	0.1	30	8290A
1,2,3,6,7,8-HxCDF	150	B	10	0.38	pg/g	0.1	15	8290A
1,2,3,7,8,9-HxCDF	19	B	10	0.50	pg/g	0.1	1.9	8290A
2,3,4,6,7,8-HxCDF	55	B	10	0.45	pg/g	0.1	5.5	8290A
1,2,3,4,6,7,8-HpCDD	63	B	10	0.30	pg/g	0.01	0.63	8290A
1,2,3,4,6,7,8-HpCDF	660	B	10	0.77	pg/g	0.01	6.6	8290A
1,2,3,4,7,8,9-HpCDF	230	B	10	0.91	pg/g	0.01	2.3	8290A
OCDD	110	B	20	0.19	pg/g	0.0003	0.033	8290A
OCDF	5300	B	20	0.98	pg/g	0.0003	1.6	8290A
2,3,7,8-TCDF - RA	81	B	2.0	1.4	pg/g	0.1	8.1	8290A

Client Sample ID: RINSATE

Lab Sample ID: 680-96439-22

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	5.9	U	21	5.9	pg/L	0.0001	0.00	1668C
PCB-81	5.6	U	21	5.6	pg/L	0.0003	0.00	1668C
PCB-105	6.9	U	21	6.9	pg/L	0.00003	0.00	1668C
PCB-114	6.5	U	21	6.5	pg/L	0.00003	0.00	1668C
PCB-118	9.0	J q B	21	6.1	pg/L	0.00003	0.00027	1668C
PCB-123	6.0	U	21	6.0	pg/L	0.00003	0.00	1668C
PCB-126	8.1	U	21	8.1	pg/L	0.1	0.00	1668C
PCB-156/157	5.3	U	41	5.3	pg/L	0.00003	0.00	1668C
PCB-167	4.0	U	21	4.0	pg/L	0.00003	0.00	1668C
PCB-169	5.2	U	21	5.2	pg/L	0.03	0.00	1668C
PCB-189	8.1	U	21	8.1	pg/L	0.00003	0.00	1668C
2,3,7,8-TCDD	0.27	U	10	0.27	pg/L	1	0.00	8290A
2,3,7,8-TCDF	0.29	U	10	0.29	pg/L	0.1	0.00	8290A
1,2,3,7,8-PeCDD	0.54	U	52	0.54	pg/L	1	0.00	8290A
1,2,3,7,8-PeCDF	0.62	U	52	0.62	pg/L	0.03	0.00	8290A
2,3,4,7,8-PeCDF	0.64	U	52	0.64	pg/L	0.3	0.00	8290A
1,2,3,4,7,8-HxCDD	0.29	U	52	0.29	pg/L	0.1	0.00	8290A
1,2,3,6,7,8-HxCDD	0.28	U	52	0.28	pg/L	0.1	0.00	8290A
1,2,3,7,8,9-HxCDD	0.24	U	52	0.24	pg/L	0.1	0.00	8290A
1,2,3,4,7,8-HxCDF	1.5	J q B	52	0.27	pg/L	0.1	0.15	8290A
1,2,3,6,7,8-HxCDF	0.24	U	52	0.24	pg/L	0.1	0.00	8290A
1,2,3,7,8,9-HxCDF	0.27	U	52	0.27	pg/L	0.1	0.00	8290A
2,3,4,6,7,8-HxCDF	0.26	U	52	0.26	pg/L	0.1	0.00	8290A
1,2,3,4,6,7,8-HpCDD	0.36	U	52	0.36	pg/L	0.01	0.00	8290A
1,2,3,4,6,7,8-HpCDF	4.4	J	52	0.34	pg/L	0.01	0.044	8290A
1,2,3,4,7,8,9-HpCDF	0.41	U	52	0.41	pg/L	0.01	0.00	8290A
OCDD	3.2	J B	100	0.50	pg/L	0.0003	0.00096	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: RINSATE (Continued)

Lab Sample ID: 680-96439-22

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
OCDF	2.8	J B	100	0.60	pg/L	0.0003	0.00084	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-4L (5-145)	PCB-15L (5-145)	PCB-123L (10-145)	PCB-114L (10-145)	PCB-202L (10-145)	PCB-3L (5-145)	PCB-118L (10-145)	PCB-126L (10-145)
680-96439-2	FM-SS-1_SS	36	47	73	74	72	36	73	81
680-96439-2 MS	FM-SS-1_SS	40	51	69	69	72	41	68	78
680-96439-2 MSD	FM-SS-1_SS	44	54	79	77	79	44	78	86
680-96439-3	FM-SS-1_SS DUP	45	54	74	73	77	46	75	82
680-96439-4	FM-SS-2_SS	51	62	68	65	131	51	68	60
680-96439-5	FM-SS-2_SS DUP	39	36	34	32	53	44	32	32
680-96439-6	FM-SS-3_SS	58	71	89	89	133	60	89	85
680-96439-7	FM-SS-4_SS	47	61	82	81	79	48	81	90
680-96439-8	BY-SS-1_SS	47	56	82	80	74	46	82	86
680-96439-8 - DL	BY-SS-1_SS								
680-96439-9 - DL	NS-SS-1_SS	62	81	89	86	81	68	88	99
680-96439-10	NS-SS-5_SS	42	65	73	73	65	50	74	77
680-96439-11 - DL	BY-SS-3_SS	56	79	81	81	81	52	81	86
680-96439-11 - RA	BY-SS-3_SS	51	74	83	82	82	56	83	91
680-96439-11 MS - DL	BY-SS-3_SS	46	70	81	74	69	40 q	77	82
680-96439-11 MS - RA	BY-SS-3_SS	46	70	79	77	75	52	80	88
680-96439-11 MSD - DL	BY-SS-3_SS	55	81	83	82	88	41 q	85	90
680-96439-11 MSD - RA	BY-SS-3_SS	54	78	86	84	85	59	86	92
680-96439-12	BY-SS-3_SS DUP	50	65	72	72	72	56	74	80
680-96439-13	J2-SS-3_SS	49	69	91	89	92	49	91	93
680-96439-13 - DL	J2-SS-3_SS								
680-96439-14	J2-SS-2_SS	49	72	77	76	84	57	74	77
680-96439-15	J2-SS-1_SS	36	46	57	57	52	37	59	61
680-96439-16	S17-SS-2_SS	44	77	79	75	78	56	75	73
MB 320-32172/1-A	Method Blank	52	57	69	68	76	52	70	68
MB 320-32277/1-A	Method Blank	44	56	72	71	67	45	73	80
MB 320-32403/1-A	Method Blank	32	48	56	56	51	39	58	60

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-206L (10-145)	PCB-169L (10-145)	PCB-37L (5-145)	PCB-19L (5-145)	PCB-188L (10-145)	PCB-54L (5-145)	CB-156L/15 (10-145)	PCB-167L (10-145)
680-96439-2	FM-SS-1_SS	85	88	52	45	62	45	79	77
680-96439-2 MS	FM-SS-1_SS	81	83	53	51	61	50	76	72
680-96439-2 MSD	FM-SS-1_SS	86	89	60	52	69	53	83	78
680-96439-3	FM-SS-1_SS DUP	86	87	57	52	67	54	80	75
680-96439-4	FM-SS-2_SS	98	74	56	58	123	79	81	84
680-96439-5	FM-SS-2_SS DUP	42	36	29	39	51	52	38	40
680-96439-6	FM-SS-3_SS	88	82	73	62	129	75	85	89
680-96439-7	FM-SS-4_SS	91	87	54	57	70	56	81	75
680-96439-8	BY-SS-1_SS	83	91	62	54	65	59	86	83
680-96439-8 - DL	BY-SS-1_SS								
680-96439-9 - DL	NS-SS-1_SS	92	112	81	66	66	71	97	92
680-96439-10	NS-SS-5_SS	78	100	72	52	53	46	89	88
680-96439-11 - DL	BY-SS-3_SS	91	107	76	70	76	79	87	87
680-96439-11 - RA	BY-SS-3_SS	85	106	79	65	76	55 q	92	89
680-96439-11 MS - DL	BY-SS-3_SS	78	93	62	67	64	69	81	86
680-96439-11 MS - RA	BY-SS-3_SS	80	104	74	60	69	57	87	83
680-96439-11 MSD - DL	BY-SS-3_SS	96	105	69	61 q	79	71	87	96
680-96439-11 MSD - RA	BY-SS-3_SS	87	111	82	68	80	63	95	92
680-96439-12	BY-SS-3_SS DUP	75	91	65	57	64	56	79	76

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-206L (10-145)	PCB-169L (10-145)	PCB-37L (5-145)	PCB-19L (5-145)	PCB-188L (10-145)	PCB-54L (5-145)	CB-156L/15 (10-145)	PCB-167L (10-145)
680-96439-13	J2-SS-3_SS	79	88	81	62	82	66	88	83
680-96439-13 - DL	J2-SS-3_SS								
680-96439-14	J2-SS-2_SS	87	84	71	55	78	76	80	83
680-96439-15	J2-SS-1_SS	50	58	49	43	46	42	55	54
680-96439-16	S17-SS-2_SS	90	85	66	68	78	73	77	84
MB 320-32172/1-A	Method Blank	87	82	59	59	70	62	77	74
MB 320-32277/1-A	Method Blank	87	97	59	56	50	44	85	82
MB 320-32403/1-A	Method Blank	68	85	56	36	39	32	82	78

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-209L (10-145)	PCB-189L (10-145)	PCB-105L (10-145)	PCB-208L (10-145)	PCB-1L (5-145)	PCB-104L (10-145)	PCB-81L (10-145)	PCB-77L (10-145)
680-96439-2	FM-SS-1_SS	81	75	76	80	30	48	68	68
680-96439-2 MS	FM-SS-1_SS	82	71	71	79	33	50	64	66
680-96439-2 MSD	FM-SS-1_SS	87	76	78	84	37	57	71	72
680-96439-3	FM-SS-1_SS DUP	86	74	77	83	39	56	67	68
680-96439-4	FM-SS-2_SS	93	92	66	120	44	65	61	59
680-96439-5	FM-SS-2_SS DUP	42	43	33	54	29 q	34	31	32
680-96439-6	FM-SS-3_SS	101	90	90	112	47	82	74	75
680-96439-7	FM-SS-4_SS		76	83	84	40	59	74	74
680-96439-8	BY-SS-1_SS		73	83	79	37	62	73	75
680-96439-8 - DL	BY-SS-1_SS	67							
680-96439-9 - DL	NS-SS-1_SS	99	81	87	88	58	65	91	94
680-96439-10	NS-SS-5_SS	74	74	74	77	42	54	80	81
680-96439-11 - DL	BY-SS-3_SS	84	82	86	90	41	65	86	93
680-96439-11 - RA	BY-SS-3_SS	84	88	84	91	43	65	84	84
680-96439-11 MS - DL	BY-SS-3_SS	76	72	80	77	40	66	72 q	77 q
680-96439-11 MS - RA	BY-SS-3_SS	81	84	81	85	41	57	82	80
680-96439-11 MSD - DL	BY-SS-3_SS	92	87	84	94	41	70	82	80 q
680-96439-11 MSD - RA	BY-SS-3_SS	85	90	86	94	46	63	91	91
680-96439-12	BY-SS-3_SS DUP	73	74	74	79	47	54	70	73
680-96439-13	J2-SS-3_SS		85	91	93	39	71	92	92
680-96439-13 - DL	J2-SS-3_SS	70							
680-96439-14	J2-SS-2_SS	100	79	74	88	41	65	72	75
680-96439-15	J2-SS-1_SS	38	46	58	53	29	43	56	57
680-96439-16	S17-SS-2_SS	97	74	75	89	35	64	78	72
MB 320-32172/1-A	Method Blank	78	78	70	85	41	61	62	63
MB 320-32277/1-A	Method Blank	85	76	73	84	40	52	72	71
MB 320-32403/1-A	Method Blank	60	71	57	67	30	36	60	61

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-205L (10-145)	PCB-155L (10-145)	PCB-54L (15-145)	PCB-54L (5-145)	CB-156L/15 (10-145)	CB-156L/15 (40-145)	PCB-167L (10-145)	PCB-167L (40-145)
680-96439-2	FM-SS-1_SS	87	51		45	79		77	
680-96439-2 MS	FM-SS-1_SS	83	51		50	76		72	
680-96439-2 MSD	FM-SS-1_SS	90	57		53	83		78	
680-96439-3	FM-SS-1_SS DUP	89	54		54	80		75	
680-96439-4	FM-SS-2_SS	96	75		79	81		84	
680-96439-5	FM-SS-2_SS DUP	45	36		52	38		40	
680-96439-6	FM-SS-3_SS	94	79		75	85		89	

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-205L (10-145)	PCB-155L (10-145)	PCB-54L (15-145)	PCB-54L (5-145)	CB-156L/15 (10-145)	CB-156L/15 (40-145)	PCB-167L (10-145)	PCB-167L (40-145)
680-96439-7	FM-SS-4_SS	92	55		56	81		75	
680-96439-8	BY-SS-1_SS	85	62		59	86		83	
680-96439-8 - DL	BY-SS-1_SS								
680-96439-9 - DL	NS-SS-1_SS	88	71		71	97		92	
680-96439-10	NS-SS-5_SS	81	60		46	89		88	
680-96439-11 - DL	BY-SS-3_SS	87	67		79	87		87	
680-96439-11 - RA	BY-SS-3_SS	87	68		55 q	92		89	
680-96439-11 MS - DL	BY-SS-3_SS	79	61		69	81		86	
680-96439-11 MS - RA	BY-SS-3_SS	84	62		57	87		83	
680-96439-11 MSD - DL	BY-SS-3_SS	98	74		71	87		96	
680-96439-11 MSD - RA	BY-SS-3_SS	90	72		63	95		92	
680-96439-12	BY-SS-3_SS DUP	76	58		56	79		76	
680-96439-13	J2-SS-3_SS	88	67		66	88		83	
680-96439-13 - DL	J2-SS-3_SS								
680-96439-14	J2-SS-2_SS	84	73		76	80		83	
680-96439-15	J2-SS-1_SS	55	42		42	55		54	
680-96439-16	S17-SS-2_SS	79 q	74		73	77		84	
MB 320-32172/1-A	Method Blank	88	61		62	77		74	
MB 320-32277/1-A	Method Blank	86	51		44	85		82	
MB 320-32403/1-A	Method Blank	75	48		32	82		78	

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-209L (10-145)	PCB-209L (40-145)	PCB-189L (10-145)	PCB-189L (40-145)	PCB-105L (10-145)	PCB-105L (40-145)	PCB-208L (10-145)	PCB-208L (40-145)
680-96439-2	FM-SS-1_SS	81		75		76		80	
680-96439-2 MS	FM-SS-1_SS	82		71		71		79	
680-96439-2 MSD	FM-SS-1_SS	87		76		78		84	
680-96439-3	FM-SS-1_SS DUP	86		74		77		83	
680-96439-4	FM-SS-2_SS	93		92		66		120	
680-96439-5	FM-SS-2_SS DUP	42		43		33		54	
680-96439-6	FM-SS-3_SS	101		90		90		112	
680-96439-7	FM-SS-4_SS			76		83		84	
680-96439-8	BY-SS-1_SS			73		83		79	
680-96439-8 - DL	BY-SS-1_SS	67							
680-96439-9 - DL	NS-SS-1_SS	99		81		87		88	
680-96439-10	NS-SS-5_SS	74		74		74		77	
680-96439-11 - DL	BY-SS-3_SS	84		82		86		90	
680-96439-11 - RA	BY-SS-3_SS	84		88		84		91	
680-96439-11 MS - DL	BY-SS-3_SS	76		72		80		77	
680-96439-11 MS - RA	BY-SS-3_SS	81		84		81		85	
680-96439-11 MSD - DL	BY-SS-3_SS	92		87		84		94	
680-96439-11 MSD - RA	BY-SS-3_SS	85		90		86		94	
680-96439-12	BY-SS-3_SS DUP	73		74		74		79	
680-96439-13	J2-SS-3_SS			85		91		93	
680-96439-13 - DL	J2-SS-3_SS	70							
680-96439-14	J2-SS-2_SS	100		79		74		88	
680-96439-15	J2-SS-1_SS	38		46		58		53	
680-96439-16	S17-SS-2_SS	97		74		75		89	
MB 320-32172/1-A	Method Blank	78		78		70		85	
MB 320-32277/1-A	Method Blank	85		76		73		84	

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-209L (10-145)	PCB-209L (40-145)	PCB-189L (10-145)	PCB-189L (40-145)	PCB-105L (10-145)	PCB-105L (40-145)	PCB-208L (10-145)	PCB-208L (40-145)
MB 320-32403/1-A	Method Blank	60		71		57		67	

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-1L (15-145)	PCB-1L (5-145)	PCB-104L (10-145)	PCB-104L (40-145)	PCB-81L (10-145)	PCB-81L (40-145)	PCB-77L (10-145)	PCB-77L (40-145)
680-96439-2	FM-SS-1_SS		30	48		68		68	
680-96439-2 MS	FM-SS-1_SS		33	50		64		66	
680-96439-2 MSD	FM-SS-1_SS		37	57		71		72	
680-96439-3	FM-SS-1_SS DUP		39	56		67		68	
680-96439-4	FM-SS-2_SS		44	65		61		59	
680-96439-5	FM-SS-2_SS DUP		29 q	34		31		32	
680-96439-6	FM-SS-3_SS		47	82		74		75	
680-96439-7	FM-SS-4_SS		40	59		74		74	
680-96439-8	BY-SS-1_SS		37	62		73		75	
680-96439-8 - DL	BY-SS-1_SS								
680-96439-9 - DL	NS-SS-1_SS		58	65		91		94	
680-96439-10	NS-SS-5_SS		42	54		80		81	
680-96439-11 - DL	BY-SS-3_SS		41	65		86		93	
680-96439-11 - RA	BY-SS-3_SS		43	65		84		84	
680-96439-11 MS - DL	BY-SS-3_SS		40	66		72 q		77 q	
680-96439-11 MS - RA	BY-SS-3_SS		41	57		82		80	
680-96439-11 MSD - DL	BY-SS-3_SS		41	70		82		80 q	
680-96439-11 MSD - RA	BY-SS-3_SS		46	63		91		91	
680-96439-12	BY-SS-3_SS DUP		47	54		70		73	
680-96439-13	J2-SS-3_SS		39	71		92		92	
680-96439-13 - DL	J2-SS-3_SS								
680-96439-14	J2-SS-2_SS		41	65		72		75	
680-96439-15	J2-SS-1_SS		29	43		56		57	
680-96439-16	S17-SS-2_SS		35	64		78		72	
MB 320-32172/1-A	Method Blank		41	61		62		63	
MB 320-32277/1-A	Method Blank		40	52		72		71	
MB 320-32403/1-A	Method Blank		30	36		60		61	

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-205L (10-145)	PCB-205L (40-145)	PCB-155L (10-145)	PCB-155L (40-145)				
680-96439-2	FM-SS-1_SS	87		51					
680-96439-2 MS	FM-SS-1_SS	83		51					
680-96439-2 MSD	FM-SS-1_SS	90		57					
680-96439-3	FM-SS-1_SS DUP	89		54					
680-96439-4	FM-SS-2_SS	96		75					
680-96439-5	FM-SS-2_SS DUP	45		36					
680-96439-6	FM-SS-3_SS	94		79					
680-96439-7	FM-SS-4_SS	92		55					
680-96439-8	BY-SS-1_SS	85		62					
680-96439-8 - DL	BY-SS-1_SS								
680-96439-9 - DL	NS-SS-1_SS	88		71					
680-96439-10	NS-SS-5_SS	81		60					
680-96439-11 - DL	BY-SS-3_SS	87		67					
680-96439-11 - RA	BY-SS-3_SS	87		68					

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-205L (10-145)	PCB-205L (40-145)	PCB-155L (10-145)	PCB-155L (40-145)				
680-96439-11 MS - DL	BY-SS-3_SS	79		61					
680-96439-11 MS - RA	BY-SS-3_SS	84		62					
680-96439-11 MSD - DL	BY-SS-3_SS	98		74					
680-96439-11 MSD - RA	BY-SS-3_SS	90		72					
680-96439-12	BY-SS-3_SS DUP	76		58					
680-96439-13	J2-SS-3_SS	88		67					
680-96439-13 - DL	J2-SS-3_SS								
680-96439-14	J2-SS-2_SS	84		73					
680-96439-15	J2-SS-1_SS	55		42					
680-96439-16	S17-SS-2_SS	79 q		74					
MB 320-32172/1-A	Method Blank	88		61					
MB 320-32277/1-A	Method Blank	86		51					
MB 320-32403/1-A	Method Blank	75		48					

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-202L = PCB-202L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-206L = PCB-206L
PCB-169L = PCB-169L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-4L (15-145)	PCB-15L (15-145)	PCB-123L (40-145)	PCB-114L (40-145)	PCB-3L (15-145)	PCB-118L (40-145)	PCB-126L (40-145)	PCB-202L (40-145)
LCS 320-32172/2-A	Lab Control Sample	50	53	62	62	47	62	67	73

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-32277/2-A	Lab Control Sample	39	51	82	83	38	84	90	67
LCS 320-32403/2-A	Lab Control Sample	35	48	60	59	40	60	61	52

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-32172/2-A	Lab Control Sample	79	85	53	55	66	56	71	68
LCS 320-32277/2-A	Lab Control Sample	86	85	54	45	55	56	77	76
LCS 320-32403/2-A	Lab Control Sample	87	73	56	39	42	31	87	81

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-32172/2-A	Lab Control Sample	76	78	65	84	41	55	57	58
LCS 320-32277/2-A	Lab Control Sample	83	74	85	79	30	51	70	70
LCS 320-32403/2-A	Lab Control Sample	63	77	60	73	34	38 *	60	61

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)
LCS 320-32172/2-A	Lab Control Sample	86	53
LCS 320-32277/2-A	Lab Control Sample	82	50
LCS 320-32403/2-A	Lab Control Sample	81	49

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-1L	PCB-3L	PCB-4L	PCB-15L	PCB-19L	PCB-37L	PCB-54L	PCB-77L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(10-145)
680-96439-22	RINSATE	43	49	55	58	62	55	61	61
MB 320-31731/1-A	Method Blank	53	60	69	74	90	65	79	64

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-81L	PCB-104L	PCB-105L	PCB-114L	PCB-118L	PCB-123L	PCB-126L	PCB-155L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)
680-96439-22	RINSATE	61	52	64	62	65	65	64	54
MB 320-31731/1-A	Method Blank	64	71	73	73	74	73	69	73

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		CB-156L/15	PCB-167L	PCB-169L	PCB-188L	PCB-189L	PCB-202L	PCB-205L	PCB-206L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)
680-96439-22	RINSATE	67	67	68	76	73	86	81	89
MB 320-31731/1-A	Method Blank	73	75	70	102	81	107	85	95

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-208L	PCB-209L						
Lab Sample ID	Client Sample ID	(10-145)	(10-145)						
680-96439-22	RINSATE	87	87						
MB 320-31731/1-A	Method Blank	100	95						

Surrogate Legend

PCB-1L = PCB-1L
PCB-3L = PCB-3L
PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-19L = PCB-19L
PCB-37L = PCB-37L
PCB-54L = PCB-54L
PCB-77L = PCB-77L
PCB-81L = PCB-81L
PCB-104L = PCB-104L
PCB-105L = PCB-105L
PCB-114L = PCB-114L
PCB-118L = PCB-118L
PCB-123L = PCB-123L
PCB-126L = PCB-126L
PCB-155L = PCB-155L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-169L = PCB-169L
PCB-188L = PCB-188L
PCB-189L = PCB-189L
PCB-202L = PCB-202L
PCB-205L = PCB-205L
PCB-206L = PCB-206L
PCB-208L = PCB-208L
PCB-209L = PCB-209L

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-31731/2-A	Lab Control Sample	58	66	76	76	51	77	75	99
LCSD 320-31731/3-A	Lab Control Sample Dup	68	74	76	76	57	76	75	99

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-31731/2-A	Lab Control Sample	75	95	63	73	95	71	74	74
LCSD 320-31731/3-A	Lab Control Sample Dup	71	91	67	82	97	79	72	72

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-31731/2-A	Lab Control Sample	96	79	76	100	43	69	69	71
LCSD 320-31731/3-A	Lab Control Sample Dup	91	76	75	95	51	73	68	69

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)
LCS 320-31731/2-A	Lab Control Sample	87	73
LCSD 320-31731/3-A	Lab Control Sample Dup	84	75

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDD2 (40-135)	TCDD (40-135)	PeCDD (40-135)	HpCDF1 (40-135)	PeCDF1 (40-135)	TCDF (40-135)	HpCDD (40-135)	OCDD (40-135)
680-96439-1	S17-SS-1_SS	101	95	93	96	93	90	101	98
680-96439-1 - RA	S17-SS-1_SS						104		
680-96439-4	FM-SS-2_SS	104	99	102	104	95		112	115
680-96439-4 - RA	FM-SS-2_SS						102		
680-96439-5	FM-SS-2_SS DUP	28 *	27 *	24 *	32 *	25 *		33 *	32 *
680-96439-5 - RA	FM-SS-2_SS DUP						26 *		
680-96439-6	FM-SS-3_SS	92	95	102	105	93		118	134
680-96439-6 - RA	FM-SS-3_SS						101		
680-96439-6 - DL	FM-SS-3_SS								121
680-96439-9 - RADL	NS-SS-1_SS						109		
680-96439-9	NS-SS-1_SS	113	94	93	112	100	105	100	91
680-96439-10	NS-SS-5_SS	77	89	89	86	90		91	98
680-96439-10 - RA	NS-SS-5_SS						93		
680-96439-11	BY-SS-3_SS	90	93	92	104	91		108	109
680-96439-11 - RA	BY-SS-3_SS						96		
680-96439-11 MS	BY-SS-3_SS	89	91	95	97	91		109	109
680-96439-11 MS - RA	BY-SS-3_SS						97		
680-96439-11 MSD	BY-SS-3_SS	83	91	89	95	87		104	103
680-96439-11 MSD - RA	BY-SS-3_SS						97		
680-96439-12	BY-SS-3_SS DUP	64	62	59	67	57		71	70
680-96439-12 - RA	BY-SS-3_SS DUP						66		
680-96439-14	J2-SS-2_SS	91	92	90	94	91		97	96
680-96439-14 - RA	J2-SS-2_SS						97		
680-96439-16	S17-SS-2_SS	92	89	89	95	89	85	96	99
680-96439-16 - RA	S17-SS-2_SS						96		
LCS 320-32158/2-A	Lab Control Sample	101	89	88	94	89	87	91	92
LCS 320-32264/2-A	Lab Control Sample	95	98	95	94	95	91	98	95
MB 320-32158/1-A	Method Blank	104	91	93	95	92	91	93	87
MB 320-32264/1-A	Method Blank	94	96	95	95	94	90	104	99

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDF1 (40-135)							
680-96439-1	S17-SS-1_SS	90							
680-96439-1 - RA	S17-SS-1_SS								
680-96439-4	FM-SS-2_SS	79							
680-96439-4 - RA	FM-SS-2_SS								
680-96439-5	FM-SS-2_SS DUP	23 *							
680-96439-5 - RA	FM-SS-2_SS DUP								
680-96439-6	FM-SS-3_SS	78							
680-96439-6 - RA	FM-SS-3_SS								
680-96439-6 - DL	FM-SS-3_SS								
680-96439-9 - RADL	NS-SS-1_SS								
680-96439-9	NS-SS-1_SS	108							
680-96439-10	NS-SS-5_SS	78							
680-96439-10 - RA	NS-SS-5_SS								
680-96439-11	BY-SS-3_SS	86							
680-96439-11 - RA	BY-SS-3_SS								
680-96439-11 MS	BY-SS-3_SS	88							
680-96439-11 MS - RA	BY-SS-3_SS								

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDF1 (40-135)							
680-96439-11 MSD	BY-SS-3_SS	85							
680-96439-11 MSD - RA	BY-SS-3_SS								
680-96439-12	BY-SS-3_SS DUP	61							
680-96439-12 - RA	BY-SS-3_SS DUP								
680-96439-14	J2-SS-2_SS	91							
680-96439-14 - RA	J2-SS-2_SS								
680-96439-16	S17-SS-2_SS	86							
680-96439-16 - RA	S17-SS-2_SS								
LCS 320-32158/2-A	Lab Control Sample	90							
LCS 320-32264/2-A	Lab Control Sample	89							
MB 320-32158/1-A	Method Blank	89							
MB 320-32264/1-A	Method Blank	87							

Surrogate Legend

HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
TCDF = 13C-2,3,7,8-TCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF1 (40-135)	HxCDD2 (40-135)	HxCDF1 (40-135)	HpCDD (40-135)	HpCDF1 (40-135)
680-96439-22	RINSATE	87	89	94	90	91	82	92	92
LCS 320-31203/2-A	Lab Control Sample	81	83	92	87	94	99	70	67
MB 320-31203/1-A	Method Blank	83	84	86	83	96	86	74	76

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	OCDD (40-135)							
680-96439-22	RINSATE	85							
LCS 320-31203/2-A	Lab Control Sample	72							
MB 320-31203/1-A	Method Blank	69							

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
OCDD = 13C-OCDD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 680-96525-1
Client Project/Site: TIMET
Revision: 1

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Kathryn Smith

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3/7/2014 1:29:06 PM

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LINKS

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

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

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

Job ID: 680-96525-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: GEI Consultants, Inc.

Project: TIMET

Report Number: 680-96525-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 11/26/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 2.4º C and 3.6º C.

SEMIVOLATILE ORGANIC COMPOUNDS (SOLID)

Sample NE-B-3_SS (680-96525-3) was analyzed for Semivolatile Organic Compounds (Solid) in accordance with EPA SW846 Method 8270D. The samples were prepared on 12/02/2013 and analyzed on 12/04/2013.

Pyrene failed the recovery criteria high for LCS 160-88803/2-A.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Samples NE-B-2_SS (680-96525-1), NE-B-3_SS (680-96525-3) and NE-B-1_SS (680-96525-6) were analyzed for chlorinated biphenyl congeners in accordance with epa method 1668C. The samples were prepared on 12/19/2013 and 12/30/2013 and analyzed on 02/10/2014.

PCB-1 was detected in method blank MB 320-32277/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 320-32277/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. PCB-1 was detected in method blank MB 320-32864/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 320-32864/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Sample RINSATE (680-96525-9) was analyzed for chlorinated biphenyl congeners in accordance with EPA method 1668C. The samples were prepared on 12/17/2013 and analyzed on 01/31/2014.

No difficulties were encountered during the chlorinated biphenyl congeners analysis.

Job ID: 680-96525-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All quality control parameters were within the acceptance limits.

DIOXINS AND FURANS

Sample NE-B-3_SS (680-96525-3) was analyzed for dioxins and furans in accordance with EPA Method 8290A. The samples were prepared on 12/19/2013 and analyzed on 01/08/2014 and 01/14/2014.

Several analytes were detected in method blank MB 320-32264/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the dioxins and furans analysis.

All other quality control parameters were within the acceptance limits.

DIOXINS AND FURANS

Sample RINSATE (680-96525-9) was analyzed for dioxins and furans in accordance with EPA SW-846 8290A. The samples were prepared on 12/16/2013 and analyzed on 01/10/2014.

Several analytes were detected in method blank MB 320-31992/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the dioxins and furans analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Samples NE-B-2_SS (680-96525-1), NE-B-2_SUB (680-96525-2), NE-B-3_SS (680-96525-3), NE-B-3_SUB (680-96525-4), NE-B-3_SUB DUP (680-96525-5), NE-B-1_SS (680-96525-6), NE-B-1_SUB (680-96525-7) and NE-B-1_SUB DUP (680-96525-8) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/04/2013 and analyzed on 12/31/2013.

Antimony failed the recovery criteria low for the MS/MSD of sample NE-B-1_SUBMS/MSD (680-96525-7) in batch 160-95650. Several analytes failed the recovery criteria high.

Samples NE-B-2_SS (680-96525-1)[5X], NE-B-2_SUB (680-96525-2)[5X], NE-B-3_SS (680-96525-3)[5X], NE-B-3_SUB (680-96525-4)[5X], NE-B-3_SUB DUP (680-96525-5)[5X], NE-B-1_SS (680-96525-6)[5X], NE-B-1_SUB (680-96525-7)[5X] and NE-B-1_SUB DUP (680-96525-8)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Sample RINSATE (680-96525-9) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/23/2013 and analyzed on 12/26/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples NE-B-2_SS (680-96525-1), NE-B-2_SUB (680-96525-2), NE-B-3_SS (680-96525-3), NE-B-3_SUB (680-96525-4), NE-B-3_SUB DUP (680-96525-5), NE-B-1_SS (680-96525-6), NE-B-1_SUB (680-96525-7) and NE-B-1_SUB DUP (680-96525-8) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 12/04/2013 and analyzed on

Job ID: 680-96525-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

12/26/2013.

Niobium failed the recovery criteria low for the MS/MSD of sample NE-B-1_SUBMS/MSD (680-96525-7) in batch 160-94963.

Samples NE-B-2_SS (680-96525-1)[10X], NE-B-2_SUB (680-96525-2)[10X], NE-B-3_SS (680-96525-3)[10X], NE-B-3_SUB (680-96525-4)[10X], NE-B-3_SUB DUP (680-96525-5)[10X], NE-B-1_SS (680-96525-6)[10X], NE-B-1_SUB (680-96525-7)[10X] and NE-B-1_SUB DUP (680-96525-8)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Sample RINSATE (680-96525-9) was analyzed for Metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 12/26/2013 and analyzed on 12/30/2013.

Niobium failed the recovery criteria low for the MS of sample RINSATEMS (680-96525-9) in batch 160-95491.

Niobium exceeded the RPD limit for the MSD of sample RINSATEMSD (680-96525-9) in batch 160-95491.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample RINSATE (680-96525-9) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 12/03/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples NE-B-2_SS (680-96525-1), NE-B-2_SUB (680-96525-2), NE-B-3_SS (680-96525-3), NE-B-3_SUB (680-96525-4), NE-B-3_SUB DUP (680-96525-5), NE-B-1_SS (680-96525-6), NE-B-1_SUB (680-96525-7) and NE-B-1_SUB DUP (680-96525-8) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 12/02/2013 and analyzed on 12/03/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

ANIONS BY IC

Samples NE-B-2_SS (680-96525-1), NE-B-2_SUB (680-96525-2), NE-B-3_SS (680-96525-3), NE-B-3_SUB (680-96525-4), NE-B-3_SUB DUP (680-96525-5), NE-B-1_SS (680-96525-6), NE-B-1_SUB (680-96525-7) and NE-B-1_SUB DUP (680-96525-8) were analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were leached on 12/18/2013 and analyzed on 12/18/2013 and 12/19/2013.

Sulfate failed the recovery criteria low for the MS of sample NE-B-1_SUBMS (680-96525-7) in batch 160-94320. Chloride failed the recovery criteria high.

Samples NE-B-2_SS (680-96525-1)[20X], NE-B-2_SUB (680-96525-2)[20X], NE-B-3_SS (680-96525-3)[20X], NE-B-3_SS (680-96525-3)[200X], NE-B-3_SUB (680-96525-4)[20X], NE-B-3_SUB DUP (680-96525-5)[20X], NE-B-1_SS (680-96525-6)[1000X], NE-B-1_SS (680-96525-6)[20X], NE-B-1_SUB (680-96525-7)[20X], NE-B-1_SUB (680-96525-7)[200X], NE-B-1_SUB DUP (680-96525-8)[20X] and NE-B-1_SUB DUP (680-96525-8)[200X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Job ID: 680-96525-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No other difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

ANIONS BY IC

Sample RINSATE (680-96525-9) was analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were analyzed on 11/26/2013.

No difficulties were encountered during the Anions analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/MOISTURE

Samples NE-B-2_SS (680-96525-1), NE-B-2_SUB (680-96525-2), NE-B-3_SS (680-96525-3), NE-B-3_SUB (680-96525-4), NE-B-3_SUB DUP (680-96525-5), NE-B-1_SS (680-96525-6), NE-B-1_SUB (680-96525-7) and NE-B-1_SUB DUP (680-96525-8) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 12/04/2013.

No difficulties were encountered during the % solids/moisture analysis.

All quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Samples NE-B-3_SS (680-96525-3), NE-B-3_SUB (680-96525-4) and NE-B-3_SUB DUP (680-96525-5) were analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were leached on 11/29/2013, prepared on 12/09/2013 and analyzed on 12/10/2013.

No difficulties were encountered during the radioactivity analysis.

All quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Sample RINSATE (680-96525-9) was analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were prepared on 12/27/2013 and analyzed on 12/30/2013.

No difficulties were encountered during the gross alpha & beta analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226 AND OTHER GAMMA EMITTERS (GS)

Samples NE-B-3_SS (680-96525-3), NE-B-3_SUB (680-96525-4) and NE-B-3_SUB DUP (680-96525-5) were analyzed for Radium-226 and other gamma emitters (GS) in accordance with EPA Method 901.1. The samples were leached on 11/29/2013, prepared on 12/12/2013 and analyzed on 01/03/2014.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

GAMMA EMITTERS

Sample RINSATE (680-96525-9) was analyzed for Gamma Emitters in accordance with 901.1. The samples were prepared on 11/26/2013 and analyzed on 12/19/2013.

Several analytes exceeded the RPD limit for the duplicate of sample RINSATEDU (680-96525-9). Refer to the QC report for details.

No other difficulties were encountered during the Gamma Emitters analysis.

Job ID: 680-96525-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All other quality control parameters were within the acceptance limits.

RADIUM-226 (GFPC)

Samples NE-B-3_SS (680-96525-3), NE-B-3_SUB (680-96525-4) and NE-B-3_SUB DUP (680-96525-5) were analyzed for Radium-226 (GFPC) in accordance with EPA Method 903.0. The samples were leached on 11/29/2013, prepared on 12/03/2013 and analyzed on 12/26/2013.

Radium-226 was detected in method blank MB 160-89209/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the radium-226 analysis.

All other quality control parameters were within the acceptance limits.

RADIUM-226

Sample RINSATE (680-96525-9) was analyzed for Radium-226 in accordance with EPA Method 903.0. The samples were prepared on 11/26/2013 and analyzed on 12/18/2013.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Samples NE-B-3_SS (680-96525-3), NE-B-3_SUB (680-96525-4) and NE-B-3_SUB DUP (680-96525-5) were analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were leached on 11/29/2013, prepared on 12/03/2013 and analyzed on 12/19/2013.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Sample RINSATE (680-96525-9) was analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were prepared on 12/17/2013 and analyzed on 12/20/2013.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC THORIUM

Samples NE-B-3_SS (680-96525-3), NE-B-3_SUB (680-96525-4) and NE-B-3_SUB DUP (680-96525-5) were analyzed for Isotopic Thorium in accordance with A01R_Th. The samples were leached on 11/29/2013, prepared on 12/27/2013 and analyzed on 01/14/2014.

Thorium-230 was detected in method blank MB 160-94985/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the thorium analysis.

All other quality control parameters were within the acceptance limits.

THORIUM

Sample RINSATE (680-96525-9) was analyzed for Thorium in accordance with A01R_Th. The samples were prepared on 01/07/2014 and analyzed on 01/10/2014.

Job ID: 680-96525-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Thorium-230 was detected in method blank MB 160-96565/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the Thorium analysis.

All other quality control parameters were within the acceptance limits.

ISOTOPIC URANIUM

Samples NE-B-3_SS (680-96525-3), NE-B-3_SUB (680-96525-4) and NE-B-3_SUB DUP (680-96525-5) were analyzed for Isotopic Uranium in accordance with A01R_U. The samples were leached on 11/29/2013, prepared on 12/27/2013 and analyzed on 01/13/2014 and 01/14/2014.

Uranium-233/234 was detected in method blank MB 160-95022/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the uranium analysis.

All other quality control parameters were within the acceptance limits.

URANIUM

Sample RINSATE (680-96525-9) was analyzed for Uranium in accordance with A01R_U. The samples were prepared on 01/07/2014 and analyzed on 01/10/2014.

No difficulties were encountered during the Uranium analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-96525-1	NE-B-2_SS	Solid	11/22/13 10:00	11/26/13 10:00
680-96525-2	NE-B-2_SUB	Solid	11/22/13 11:50	11/26/13 10:00
680-96525-3	NE-B-3_SS	Solid	11/22/13 12:45	11/26/13 10:00
680-96525-4	NE-B-3_SUB	Solid	11/22/13 13:45	11/26/13 10:00
680-96525-5	NE-B-3_SUB DUP	Solid	11/22/13 13:45	11/26/13 10:00
680-96525-6	NE-B-1_SS	Solid	11/22/13 09:00	11/26/13 10:00
680-96525-7	NE-B-1_SUB	Solid	11/22/13 10:00	11/26/13 10:00
680-96525-8	NE-B-1_SUB DUP	Solid	11/22/13 10:00	11/26/13 10:00
680-96525-9	RINSATE	Water	11/25/13 12:30	11/26/13 10:00

Method Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
1668C	Chlorinated Biphenyl Congeners (HRGC/HRMS)	EPA	TAL SAC
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL

Protocol References:

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits

Dioxin

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.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
U	Indicates the analyte was analyzed for but not detected.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
*	Isotope Dilution analyte exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
F	MS/MSD Recovery and/or RPD exceeds the 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.
F1	MS and/or MSD Recovery exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

Rad

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	RPD of the LCS and LCSD exceeds the control limits
X	Tracer exceeds control limit

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
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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-2_SS
Date Collected: 11/22/13 10:00
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-1
Matrix: Solid
Percent Solids: 95.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**3.4**	**J q B**	43	1.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-2	**1.8**	**J q B**	43	1.4	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-3	**3.0**	**J q B**	43	1.3	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-4	31	U	43	31	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-5	5.6	U	43	5.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-6	5.7	U	43	5.7	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-7	5.3	U	43	5.3	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-8	5.5	U	43	5.5	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-9	6.0	U	43	6.0	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-10	17	U	43	17	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-11	5.8	U	43	5.8	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-12/13	5.9	U	85	5.9	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-14	4.9	U	43	4.9	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-15	5.4	U	43	5.4	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-16	**2.5**	**J q**	43	2.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-17	1.5	U	43	1.5	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-18/30	**5.3**	**J**	85	1.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-19	2.1	U	43	2.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-20/28	**18**	**J B**	85	0.91	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-21/33	**6.8**	**J B**	85	0.85	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-22	**6.5**	**J**	43	0.97	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-23	0.83	U	43	0.83	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-24	1.1	U	43	1.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-25	0.86	U	43	0.86	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-26/29	**1.7**	**J q**	85	0.86	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-27	1.1	U	43	1.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-31	**13**	**J B**	43	0.85	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-32	**2.8**	**J**	43	0.85	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-34	0.86	U	43	0.86	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-35	1.0	U	43	1.0	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-36	0.88	U	43	0.88	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-37	**19**	**J**	43	0.96	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-38	0.94	U	43	0.94	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-39	0.88	U	43	0.88	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-40/71	**18**	**J**	85	0.69	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-41	**1.3**	**J**	43	0.90	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-42	**8.1**	**J**	43	0.77	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-43	0.79	U	43	0.79	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-44/47/65	**40**	**J B**	130	0.66	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-45	**5.7**	**J**	43	0.77	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-46	**2.3**	**J q**	43	0.82	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-48	**3.3**	**J q**	43	0.70	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-49/69	**14**	**J**	85	0.57	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-50/53	**5.6**	**J**	85	0.65	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-51	**1.4**	**J**	43	0.65	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-52	**68**	**B**	43	0.72	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-54	1.1	U	43	1.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-55	1.2	U	43	1.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-56	**12**	**J**	43	1.3	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-2_SS
Date Collected: 11/22/13 10:00
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-1
Matrix: Solid
Percent Solids: 95.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	1.2	U	43	1.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-58	1.2	U	43	1.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-59/62/75	**2.8**	**J**	130	0.51	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-60	**6.2**	**J**	43	1.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-61/70/74/76	**64**	**J B**	170	1.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-63	**1.1**	**J**	43	1.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-64	**24**	**J**	43	0.48	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-66	**30**	**J**	43	1.3	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-67	1.1	U	43	1.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-68	1.0	U	43	1.0	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-72	1.1	U	43	1.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-73	0.54	U	43	0.54	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-77	**9.6**		4.3	1.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-78	1.3	U	43	1.3	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-79	**3.5**	**J**	43	1.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-80	1.1	U	43	1.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-81	1.2	U	4.3	1.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-82	**21**	**J q**	43	5.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-83	**7.7**	**J**	43	5.5	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-84	**43**		43	4.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-85/116/117	**25**	**J q**	130	3.4	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-86/87/97/108/119/125	**110**	**J B**	260	3.5	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-88/91	**19**	**J**	85	3.9	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-89	4.4	U	43	4.4	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-90/101/113	**150**	**B**	130	3.5	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-92	**32**	**J**	43	4.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-93/100	3.9	U	85	3.9	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-107/124	**6.2**	**J q**	85	3.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-94	4.1	U	43	4.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-95	**130**	**B**	43	3.8	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-96	**0.60**	**J**	43	0.39	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-98/102	3.6	U	85	3.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-99	**69**	**B**	43	4.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-103	3.6	U	43	3.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-104	0.53	U	43	0.53	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-105	**84**		4.3	3.4	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-106	3.5	U	43	3.5	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-110/115	**290**	**B**	85	3.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-109	**11**	**J q**	43	3.0	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-111	2.9	U	43	2.9	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-112	2.7	U	43	2.7	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-114	**3.4**	**J**	4.3	3.3	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-118	**170**	**B**	4.3	3.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-120	3.0	U	43	3.0	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-121	2.8	U	43	2.8	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-122	3.6	U	43	3.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-123	3.1	U	4.3	3.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-126	**4.3**		4.3	3.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-127	3.5	U	43	3.5	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-2_SS
Date Collected: 11/22/13 10:00
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-1
Matrix: Solid
Percent Solids: 95.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-128/166	56	J	85	1.5	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-129/138/163	350	B	130	1.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-130	19	J	43	2.0	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-131	3.6	J	43	1.9	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-132	87		43	1.8	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-133	3.1	J	43	1.8	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-134/143	13	J	85	1.8	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-135/151	66	J	85	1.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-136	21	J	43	1.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-137	14	J	43	1.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-139/140	4.0	J	85	1.5	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-141	56		43	1.7	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-142	1.8	U	43	1.8	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-144	11	J	43	1.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-145	1.1	U	43	1.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-146	38	J	43	1.7	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-147/149	170	B	85	1.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-148	1.6	U	43	1.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-150	1.0	U	43	1.0	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-152	1.1	U	43	1.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-153/168	220	B	85	1.3	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-154	1.4	U	43	1.4	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-155	1.6	U	43	1.6	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-156/157	52		8.5	1.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-158	37	J	43	1.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-159	1.1	U	43	1.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-160	1.4	U	43	1.4	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-161	1.2	U	43	1.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-162	1.3	J	43	1.0	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-164	24	J	43	1.3	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-165	1.4	U	43	1.4	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-167	17		4.3	0.95	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-169	1.1	U	4.3	1.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-170	140		43	0.97	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-171/173	33	J	85	0.89	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-172	24	J	43	0.92	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-174	120		43	0.91	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-175	3.8	J q	43	0.80	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-176	4.3	J q	43	0.54	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-177	65		43	0.92	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-178	16	J	43	0.84	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-179	25	J	43	0.59	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-180/193	280		85	0.74	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-181	0.75	U	43	0.75	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-182	0.94	J	43	0.75	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-183	57		43	0.68	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-184	1.4	J	43	0.60	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-185	5.3	J q	43	0.82	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-186	0.57	U	43	0.57	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-2_SS
Date Collected: 11/22/13 10:00
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-1
Matrix: Solid
Percent Solids: 95.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-187	96		43	0.78	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-188	0.85	J q	43	0.71	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-189	4.8		4.3	0.71	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-190	28	J	43	0.69	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-191	4.9	J q	43	0.66	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-192	0.69	U	43	0.69	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-194	63		43	0.95	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-195	18	J	43	0.88	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-196	27	J	43	0.58	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-197	7.9	J	43	0.39	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-198/199	52	J	85	0.61	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-200	4.3	J	43	0.39	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-201	9.5	J	43	0.39	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-202	9.9	J	43	0.54	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-203	34	J	43	0.54	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-204	1.5	J	43	0.41	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-205	3.0	J q	43	0.58	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-206	49		43	0.72	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-207	60		43	0.54	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-208	37	J	43	0.66	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
PCB-209	2000	B	43	0.53	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
Total Monochlorobiphenyls	8.1	J q B	430	1.4	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
Total Dichlorobiphenyls	31	U	430	31	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
Total Trichlorobiphenyls	75	J q B	430	1.1	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
Total Tetrachlorobiphenyls	320	J q B	430	0.95	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
Total Pentachlorobiphenyls	1200	q B	430	3.4	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
Total Hexachlorobiphenyls	1300	B	430	1.4	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
Total Heptachlorobiphenyls	910	q	430	0.75	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
Total Octachlorobiphenyls	230	J q	430	0.57	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
Total Nonachlorobiphenyls	150	J	430	0.64	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1
Polychlorinated biphenyls, Total	6100	q B	430	4.2	pg/g	☼	12/30/13 13:50	02/10/14 15:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*31*		*5 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-15L	*49*		*5 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-123L	*77*		*10 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-114L	*77*		*10 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-202L	*60*		*10 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-3L	*35*		*5 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-118L	*76*		*10 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-126L	*87*		*10 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-206L	*82*		*10 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-169L	*109*		*10 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-37L	*64*		*5 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-19L	*38*		*5 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-188L	*47*		*10 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-54L	*34*		*5 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-156L/157L	*99*		*10 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-167L	*93*		*10 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*
PCB-209L	*76*		*10 - 145*	*12/30/13 13:50*	*02/10/14 15:59*	*1*

Client Sample ID: NE-B-2_SS
Date Collected: 11/22/13 10:00
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-1
Matrix: Solid
Percent Solids: 95.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-189L	78		10 - 145	12/30/13 13:50	02/10/14 15:59	1
PCB-105L	80		10 - 145	12/30/13 13:50	02/10/14 15:59	1
PCB-208L	77		10 - 145	12/30/13 13:50	02/10/14 15:59	1
PCB-1L	30		5 - 145	12/30/13 13:50	02/10/14 15:59	1
PCB-104L	41		10 - 145	12/30/13 13:50	02/10/14 15:59	1
PCB-81L	82		10 - 145	12/30/13 13:50	02/10/14 15:59	1
PCB-77L	82		10 - 145	12/30/13 13:50	02/10/14 15:59	1
PCB-205L	84		10 - 145	12/30/13 13:50	02/10/14 15:59	1
PCB-155L	51		10 - 145	12/30/13 13:50	02/10/14 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	53		5 - 145	12/30/13 13:50	02/10/14 15:59	1
PCB-111L	71		10 - 145	12/30/13 13:50	02/10/14 15:59	1
PCB-178L	74		10 - 145	12/30/13 13:50	02/10/14 15:59	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7800**		100	71	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Antimony	3.3	U	5.1	3.3	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Barium	**140**		25	1.3	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Beryllium	0.86	U	2.5	0.86	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Cadmium	0.51	U	2.5	0.51	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Calcium	**18000**		1300	68	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Chromium	**10**		5.1	1.6	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Cobalt	**9.8**	**J**	25	4.8	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Copper	**18**		13	3.7	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Iron	**12000**		51	15	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Lead	**8.6**		5.1	0.88	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Magnesium	**5900**		510	42	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Manganese	**320**		5.1	0.79	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Nickel	**15**	**J**	20	1.1	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Potassium	1700	U	2500	1700	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Selenium	1.5	U	7.6	1.5	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Silver	1.2	U	5.1	1.2	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Sodium	**750**		510	240	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Titanium	**720**		10	3.2	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Vanadium	**31**		25	6.4	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5
Zinc	**36**		25	10	mg/Kg	☼	12/04/13 10:50	12/31/13 19:49	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.4**		5.1	1.3	mg/Kg	☼	12/04/13 11:01	12/26/13 20:42	10
Niobium	**2.7**	**J**	13	1.9	mg/Kg	☼	12/04/13 11:01	12/26/13 20:42	10
Thallium	0.78	U	2.5	0.78	mg/Kg	☼	12/04/13 11:01	12/26/13 20:42	10
Uranium	**1.3**		0.51	0.10	mg/Kg	☼	12/04/13 11:01	12/26/13 20:42	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.033	0.011	mg/Kg	☼	12/02/13 13:49	12/03/13 12:02	1

Client Sample ID: NE-B-2_SS

Lab Sample ID: 680-96525-1

Date Collected: 11/22/13 10:00

Matrix: Solid

Date Received: 11/26/13 10:00

Percent Solids: 95.4

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.9		0.21	0.042	mg/Kg	☼		12/18/13 18:57	1
Sulfate	85		5.2	0.52	mg/Kg	☼		12/18/13 18:57	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		42	4.2	mg/Kg	☼		12/18/13 19:14	20

Client Sample ID: NE-B-2_SUB

Lab Sample ID: 680-96525-2

Date Collected: 11/22/13 11:50

Matrix: Solid

Date Received: 11/26/13 10:00

Percent Solids: 88.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100		110	78	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Antimony	3.6	U	5.6	3.6	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Barium	140		28	1.4	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Beryllium	0.94	U	2.8	0.94	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Cadmium	0.56	U	2.8	0.56	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Calcium	27000		1400	74	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Chromium	11		5.6	1.7	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Cobalt	9.0	J	28	5.2	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Copper	17		14	4.0	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Iron	13000		56	17	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Lead	8.1		5.6	0.96	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Magnesium	7500		560	46	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Manganese	280		5.6	0.86	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Nickel	16	J	22	1.3	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Potassium	1900	U	2800	1900	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Selenium	1.6	U	8.3	1.6	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Silver	1.3	U	5.6	1.3	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Sodium	690		560	260	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Titanium	770		11	3.5	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Vanadium	31		28	7.0	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5
Zinc	40		28	11	mg/Kg	☼	12/04/13 10:50	12/31/13 19:53	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.2		5.6	1.4	mg/Kg	☼	12/04/13 11:01	12/26/13 20:49	10
Niobium	2.1	U	14	2.1	mg/Kg	☼	12/04/13 11:01	12/26/13 20:49	10
Thallium	0.85	U	2.8	0.85	mg/Kg	☼	12/04/13 11:01	12/26/13 20:49	10
Uranium	1.8		0.56	0.11	mg/Kg	☼	12/04/13 11:01	12/26/13 20:49	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.035	0.012	mg/Kg	☼	12/02/13 13:49	12/03/13 12:04	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	4.5		0.23	0.045	mg/Kg	☼		12/18/13 19:47	1
Sulfate	120		5.7	0.57	mg/Kg	☼		12/18/13 19:47	1

Client Sample ID: NE-B-2_SUB

Lab Sample ID: 680-96525-2

Date Collected: 11/22/13 11:50
Matrix: Solid
Date Received: 11/26/13 10:00
Percent Solids: 88.9

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**470**		45	4.5	mg/Kg	☼		12/18/13 20:03	20

Client Sample ID: NE-B-3_SS

Lab Sample ID: 680-96525-3

Date Collected: 11/22/13 12:45
Matrix: Solid
Date Received: 11/26/13 10:00
Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Acenaphthylene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Anthracene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Benzo[a]anthracene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Benzo[b]fluoranthene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Benzo[k]fluoranthene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Benzo[g,h,i]perylene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Benzo[a]pyrene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Chrysene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Dibenz(a,h)anthracene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Fluoranthene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Fluorene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Indeno[1,2,3-cd]pyrene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Naphthalene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Phenanthrene	36	U	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1
Pyrene	36	U *	360	36	ug/Kg	☼	12/02/13 12:19	12/04/13 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*87*		*53 - 97*	*12/02/13 12:19*	*12/04/13 04:48*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*46 - 111*	*12/02/13 12:19*	*12/04/13 04:48*	*1*
Nitrobenzene-d5 (Surr)	*84*		*55 - 98*	*12/02/13 12:19*	*12/04/13 04:48*	*1*
Phenol-d5 (Surr)	*78*		*54 - 101*	*12/02/13 12:19*	*12/04/13 04:48*	*1*
Terphenyl-d14 (Surr)	*81*		*58 - 123*	*12/02/13 12:19*	*12/04/13 04:48*	*1*
2-Fluorobiphenyl (Surr)	*85*		*56 - 97*	*12/02/13 12:19*	*12/04/13 04:48*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**7.0**	**J B**	43	0.55	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-2	**10**	**J B**	43	0.53	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-3	**42**	**J B**	43	0.53	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-4	17	U	43	17	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-5	4.4	U	43	4.4	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-6	4.4	U	43	4.4	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-7	4.1	U	43	4.1	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-8	**20**	**J q**	43	4.3	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-9	4.6	U	43	4.6	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-10	8.9	U	43	8.9	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-11	**18**	**J**	43	4.5	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-12/13	4.6	U	87	4.6	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-14	3.8	U	43	3.8	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-15	**49**		43	4.1	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-16	**31**	**J**	43	1.4	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-3_SS
Date Collected: 11/22/13 12:45
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-3
Matrix: Solid
Percent Solids: 91.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-17	19	J	43	1.0	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-18/30	37	J	87	0.85	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-19	5.4	J	43	1.4	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-20/28	160	B	87	2.1	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-21/33	77	J B	87	1.9	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-22	73		43	2.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-23	1.9	U	43	1.9	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-24	0.74	U	43	0.74	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-25	5.9	J q	43	2.0	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-26/29	16	J	87	2.0	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-27	3.7	J	43	0.75	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-31	110	B	43	1.9	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-32	15	J	43	0.58	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-34	2.0	U	43	2.0	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-35	6.8	J	43	2.3	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-36	2.0	U	43	2.0	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-37	94		43	2.3	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-38	2.1	U	43	2.1	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-39	2.0	U	43	2.0	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-40/71	59	J	87	0.60	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-41	18	J	43	0.78	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-42	34	J	43	0.66	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-43	4.8	J	43	0.68	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-44/47/65	100	J B	130	0.57	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-45	15	J	43	0.67	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-46	6.2	J q	43	0.71	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-48	24	J	43	0.61	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-49/69	51	J B	87	0.50	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-50/53	10	J	87	0.56	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-51	4.3	J	43	0.56	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-52	100	B	43	0.62	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-54	0.55	U	43	0.55	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-55	1.3	U	43	1.3	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-56	78		43	1.4	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-57	1.3	U	43	1.3	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-58	1.3	U	43	1.3	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-59/62/75	11	J	130	0.44	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-60	47		43	1.3	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-61/70/74/76	240	B	170	1.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-63	4.9	J	43	1.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-64	52	B	43	0.41	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-66	150		43	1.4	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-67	6.1	J	43	1.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-68	1.1	U	43	1.1	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-72	1.2	U	43	1.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-73	0.47	U	43	0.47	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-77	32		4.3	1.5	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-78	1.4	U	43	1.4	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-79	3.2	J q	43	1.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-3_SS
Date Collected: 11/22/13 12:45
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-3
Matrix: Solid
Percent Solids: 91.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-80	1.2	U	43	1.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-81	1.4	U	4.3	1.4	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-82	**29**	**J q**	43	4.6	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-83	**5.9**	**J q**	43	5.0	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-84	**44**		43	4.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-85/116/117	**33**	**J**	130	3.1	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-86/87/97/108/119/125	**130**	**J B**	260	3.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-88/91	**20**	**J**	87	3.5	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-89	4.0	U	43	4.0	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-90/101/113	**170**	**B**	130	3.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-92	**28**	**J**	43	3.7	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-93/100	3.5	U	87	3.5	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-107/124	**9.1**	**J**	87	2.9	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-94	3.7	U	43	3.7	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-95	**110**	**B**	43	3.5	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-96	**0.72**	**J q**	43	0.26	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-98/102	**3.6**	**J**	87	3.3	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-99	**83**		43	3.7	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-103	3.3	U	43	3.3	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-104	0.29	U	43	0.29	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-105	**110**		4.3	3.3	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-106	3.2	U	43	3.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-110/115	**260**	**B**	87	2.8	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-109	**15**	**J**	43	2.7	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-111	2.6	U	43	2.6	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-112	2.5	U	43	2.5	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-114	**5.7**		4.3	3.0	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-118	**210**	**B**	4.3	3.0	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-120	2.7	U	43	2.7	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-121	2.6	U	43	2.6	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-122	3.2	U	43	3.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-123	**4.2**	**J**	4.3	3.0	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-126	**5.8**		4.3	3.6	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-127	3.2	U	43	3.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-128/166	**47**	**J**	87	1.7	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-129/138/163	**300**	**B**	130	1.8	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-130	**18**	**J**	43	2.3	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-131	**2.8**	**J**	43	2.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-132	**76**		43	2.1	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-133	**2.6**	**J**	43	2.1	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-134/143	**9.7**	**J**	87	2.1	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-135/151	**60**	**J**	87	1.8	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-136	**19**	**J**	43	1.3	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-137	**12**	**J**	43	1.8	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-139/140	**4.2**	**J**	87	1.7	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-141	**47**		43	1.9	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-142	2.0	U	43	2.0	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-144	**9.3**	**J**	43	1.8	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-145	1.3	U	43	1.3	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-3_SS
Date Collected: 11/22/13 12:45
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-3
Matrix: Solid
Percent Solids: 91.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-146	35	J	43	1.9	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-147/149	160	B	87	1.8	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-148	1.8	U	43	1.8	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-150	1.2	U	43	1.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-152	1.2	U	43	1.2	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-153/168	200	B	87	1.5	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-154	2.8	J	43	1.6	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-155	1.9	U	43	1.9	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-156/157	46		8.7	1.0	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-158	31	J	43	1.4	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-159	0.90	U	43	0.90	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-160	1.6	U	43	1.6	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-161	1.4	U	43	1.4	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-162	1.1	J	43	0.87	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-164	20	J	43	1.5	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-165	1.6	U	43	1.6	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-167	16		4.3	0.79	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-169	0.91	U	4.3	0.91	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-170	120		43	0.98	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-171/173	32	J	87	0.90	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-172	22	J	43	0.93	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-174	110		43	0.92	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-175	4.8	J	43	0.71	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-176	9.0	J	43	0.48	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-177	66		43	0.92	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-178	17	J	43	0.74	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-179	29	J	43	0.52	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-180/193	280	B	87	0.74	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-181	0.76	U	43	0.76	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-182	1.3	J q	43	0.66	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-183	54		43	0.68	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-184	5.0	J	43	0.53	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-185	11	J	43	0.82	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-186	0.51	U	43	0.51	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-187	100		43	0.69	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-188	3.5	J	43	0.58	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-189	4.5		4.3	0.64	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-190	26	J	43	0.69	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-191	5.4	J	43	0.67	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-192	0.70	U	43	0.70	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-194	73		43	0.77	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-195	20	J	43	0.71	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-196	33	J	43	0.46	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-197	19	J	43	0.31	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-198/199	69	J	87	0.48	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-200	6.7	J	43	0.31	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-201	19	J	43	0.31	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-202	17	J	43	0.40	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-203	45		43	0.42	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1

Client Sample ID: NE-B-3_SS
Date Collected: 11/22/13 12:45
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-3
Matrix: Solid
Percent Solids: 91.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-204	4.2	J	43	0.32	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-205	5.2	J q	43	0.49	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-206	59		43	0.64	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-207	110		43	0.48	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-208	57		43	0.58	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
PCB-209	1600	B	43	0.69	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
Total Monochlorobiphenyls	60	J B	430	0.54	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
Total Dichlorobiphenyls	86	J q	430	5.9	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
Total Trichlorobiphenyls	650	B q	430	1.7	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
Total Tetrachlorobiphenyls	1100	B q	430	0.94	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
Total Pentachlorobiphenyls	1300	B q	430	3.1	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
Total Hexachlorobiphenyls	1100	B	430	1.6	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
Total Heptachlorobiphenyls	910	B q	430	0.72	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
Total Octachlorobiphenyls	310	J q	430	0.45	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
Total Nonachlorobiphenyls	220	J	430	0.57	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1
Polychlorinated biphenyls, Total	7300	B q	430	1.6	pg/g	☼	12/19/13 17:37	02/10/14 14:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*46*		*5 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-15L	*76*		*5 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-123L	*86*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-114L	*88*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-202L	*67*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-3L	*52*		*5 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-118L	*87*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-126L	*92*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-206L	*82*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-169L	*117*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-37L	*80*		*5 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-19L	*58*		*5 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-188L	*59*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-54L	*52*		*5 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-156L/157L	*100*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-167L	*98*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-209L	*76*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-189L	*80*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-105L	*87*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-208L	*80*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-1L	*40*		*5 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-104L	*58*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-81L	*91*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-77L	*92*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-205L	*85*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-155L	*63*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*74*		*5 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-111L	*85*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*
PCB-178L	*84*		*10 - 145*	*12/19/13 17:37*	*02/10/14 14:44*	*1*

Client Sample ID: NE-B-3_SS
Date Collected: 11/22/13 12:45
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-3
Matrix: Solid
Percent Solids: 91.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.10	J q	2.2	0.038	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
1,2,3,7,8-PeCDD	0.20	J	11	0.064	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
1,2,3,7,8-PeCDF	2.9	J	11	0.079	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
2,3,4,7,8-PeCDF	1.5	J B q	11	0.082	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
1,2,3,4,7,8-HxCDD	0.051	U	11	0.051	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
1,2,3,6,7,8-HxCDD	0.48	J B q	11	0.036	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
1,2,3,7,8,9-HxCDD	0.70	J B q	11	0.037	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
1,2,3,4,7,8-HxCDF	6.1	J B	11	0.082	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
1,2,3,6,7,8-HxCDF	3.0	J B	11	0.061	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
1,2,3,7,8,9-HxCDF	0.39	J B	11	0.079	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
2,3,4,6,7,8-HxCDF	1.2	J B	11	0.071	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
1,2,3,4,6,7,8-HpCDD	1.9	J B	11	0.087	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
1,2,3,4,6,7,8-HpCDF	15	B	11	0.12	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
1,2,3,4,7,8,9-HpCDF	3.2	J B	11	0.14	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
OCDD	10	J B	22	0.11	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1
OCDF	81	B	22	0.18	pg/g	☼	12/19/13 15:47	01/08/14 03:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*91*		*40 - 135*	*12/19/13 15:47*	*01/08/14 03:29*	*1*
13C-2,3,7,8-TCDD	*91*		*40 - 135*	*12/19/13 15:47*	*01/08/14 03:29*	*1*
13C-1,2,3,7,8-PeCDD	*85*		*40 - 135*	*12/19/13 15:47*	*01/08/14 03:29*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*97*		*40 - 135*	*12/19/13 15:47*	*01/08/14 03:29*	*1*
13C-1,2,3,7,8-PeCDF	*85*		*40 - 135*	*12/19/13 15:47*	*01/08/14 03:29*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*107*		*40 - 135*	*12/19/13 15:47*	*01/08/14 03:29*	*1*
13C-OCDD	*90*		*40 - 135*	*12/19/13 15:47*	*01/08/14 03:29*	*1*
13C-1,2,3,4,7,8-HxCDF	*87*		*40 - 135*	*12/19/13 15:47*	*01/08/14 03:29*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	4.3	B	2.2	0.12	pg/g	☼	12/19/13 15:47	01/14/14 01:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*91*		*40 - 135*	*12/19/13 15:47*	*01/14/14 01:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8100		110	74	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Antimony	3.4	U	5.3	3.4	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Barium	130		26	1.3	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Beryllium	0.89	U	2.6	0.89	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Cadmium	0.53	U	2.6	0.53	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Calcium	20000		1300	70	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Chromium	15		5.3	1.6	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Cobalt	9.8	J	26	4.9	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Copper	24		13	3.8	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Iron	13000		53	16	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Lead	11		5.3	0.90	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Magnesium	9200		530	44	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Manganese	360		5.3	0.81	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Nickel	20	J	21	1.2	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Potassium	2000	J	2600	1800	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-3_SS
Date Collected: 11/22/13 12:45
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-3
Matrix: Solid
Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	1.5	U	7.9	1.5	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Silver	1.2	U	5.3	1.2	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Sodium	**940**		530	250	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Titanium	**790**		11	3.3	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Vanadium	**30**		26	6.6	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5
Zinc	**45**		26	10	mg/Kg	☼	12/04/13 10:50	12/31/13 19:57	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.4**		5.3	1.4	mg/Kg	☼	12/04/13 11:01	12/26/13 20:56	10
Niobium	**2.2**	**J**	13	2.0	mg/Kg	☼	12/04/13 11:01	12/26/13 20:56	10
Thallium	0.80	U	2.6	0.80	mg/Kg	☼	12/04/13 11:01	12/26/13 20:56	10
Uranium	**1.3**		0.53	0.10	mg/Kg	☼	12/04/13 11:01	12/26/13 20:56	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**	**J**	0.032	0.011	mg/Kg	☼	12/02/13 13:49	12/03/13 12:06	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**32**		4.4	0.88	mg/Kg	☼		12/18/13 21:25	20
Sulfate	**1800**		110	11	mg/Kg	☼		12/18/13 21:25	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5400**		440	44	mg/Kg	☼		12/18/13 21:42	200

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	**35.1**		10.0	5.53	pCi/g		12/09/13 08:58	12/10/13 06:31	1
Gross Beta	**32.5**		10.0	2.81	pCi/g		12/09/13 08:58	12/10/13 06:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	**2.05**			0.218	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Bismuth-212	**3.17**			0.737	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Bismuth-214	**1.43**			0.142	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Bismuth-210M	0.0438	U		0.122	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Cesium-134	-0.0456	U		0.0992	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Cesium-137	0.0317	U		0.0771	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Cobalt-57	-0.00516	U		0.0654	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Cobalt-60	0.0100	U		0.104	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Lead-212	**1.75**			0.143	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Lead-214	**1.44**			0.179	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Potassium-40	**23.8**			0.594	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Protactinium-231	-0.625	U		2.55	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Protactinium-234	-0.0393	U		0.353	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Radium-224	1.93	U		2.05	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Thallium-208	**0.656**			0.0670	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Thorium-227	-0.816	U		1.08	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Thorium-234	0.914	U		2.27	pCi/g		12/12/13 15:18	01/03/14 09:26	1

Client Sample ID: NE-B-3_SS

Lab Sample ID: 680-96525-3

Date Collected: 11/22/13 12:45

Matrix: Solid

Date Received: 11/26/13 10:00

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	1.00		1.00	0.0890	pCi/g		12/03/13 12:50	12/26/13 16:53	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	74.9		40 - 110	12/03/13 12:50	12/26/13 16:53	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.51		1.00	0.445	pCi/g		12/03/13 13:00	12/19/13 11:43	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	74.9		40 - 110	12/03/13 13:00	12/19/13 11:43	1
Y Carrier	86.4		40 - 110	12/03/13 13:00	12/19/13 11:43	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.63		1.00	0.0668	pCi/g		12/27/13 11:05	01/14/14 13:33	1
Thorium-230	1.01		1.00	0.0149	pCi/g		12/27/13 11:05	01/14/14 13:33	1
Thorium-232	1.66		1.00	0.0326	pCi/g		12/27/13 11:05	01/14/14 13:33	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	86.5		30 - 110	12/27/13 11:05	01/14/14 13:33	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	0.777		1.00	0.0576	pCi/g		12/27/13 11:05	01/13/14 21:11	1
Uranium-235/236	0.0430		1.00	0.0322	pCi/g		12/27/13 11:05	01/13/14 21:11	1
Uranium-238	1.01		1.00	0.0417	pCi/g		12/27/13 11:05	01/13/14 21:11	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	85.4		30 - 110	12/27/13 11:05	01/13/14 21:11	1

Client Sample ID: NE-B-3_SUB

Lab Sample ID: 680-96525-4

Date Collected: 11/22/13 13:45

Matrix: Solid

Date Received: 11/26/13 10:00

Percent Solids: 89.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7100		110	75	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Antimony	3.4	U	5.3	3.4	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Barium	110		27	1.3	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Beryllium	0.90	U	2.7	0.90	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Cadmium	0.53	U	2.7	0.53	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Calcium	29000		1300	71	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Chromium	11		5.3	1.6	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Cobalt	9.5	J	27	5.0	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Copper	15		13	3.9	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Iron	10000		53	16	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Lead	8.1		5.3	0.92	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Magnesium	6300		530	44	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Manganese	220		5.3	0.82	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Nickel	16	J	21	1.2	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-3_SUB
Date Collected: 11/22/13 13:45
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-4
Matrix: Solid
Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1800	U	2700	1800	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Selenium	1.5	U	8.0	1.5	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Silver	1.3	U	5.3	1.3	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Sodium	**540**		530	250	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Titanium	**570**		11	3.4	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Vanadium	**26**	**J**	27	6.7	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5
Zinc	**38**		27	11	mg/Kg	☼	12/04/13 10:50	12/31/13 20:01	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.8**		5.3	1.4	mg/Kg	☼	12/04/13 11:01	12/26/13 21:02	10
Niobium	2.0	U	13	2.0	mg/Kg	☼	12/04/13 11:01	12/26/13 21:02	10
Thallium	0.81	U	2.7	0.81	mg/Kg	☼	12/04/13 11:01	12/26/13 21:02	10
Uranium	**1.3**		0.53	0.11	mg/Kg	☼	12/04/13 11:01	12/26/13 21:02	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.012**	**J**	0.033	0.011	mg/Kg	☼	12/02/13 13:49	12/03/13 12:11	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**3.1**		0.22	0.045	mg/Kg	☼		12/18/13 21:58	1
Sulfate	**130**		5.6	0.56	mg/Kg	☼		12/18/13 21:58	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**330**		45	4.5	mg/Kg	☼		12/18/13 22:14	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	**24.1**		10.0	6.26	pCi/g		12/09/13 08:58	12/10/13 06:33	1
Gross Beta	**29.5**		10.0	2.43	pCi/g		12/09/13 08:58	12/10/13 06:33	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	**1.69**			0.159	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Bismuth-212	**1.17**			1.12	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Bismuth-214	**0.972**			0.167	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Bismuth-210M	-0.0442	U		0.141	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Cesium-134	0.00356	U		0.191	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Cesium-137	-0.0106	U		0.101	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Cobalt-57	0.00619	U		0.0680	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Cobalt-60	0.000	U		0.131	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Lead-212	**1.79**			0.167	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Lead-214	**1.18**			0.190	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Potassium-40	**26.0**			0.894	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Protactinium-231	0.647	U		2.85	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Protactinium-234	0.0768	U		0.347	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Radium-224	**2.20**			1.95	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Thallium-208	**0.623**			0.0858	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Thorium-227	0.0674	U		1.96	pCi/g		12/12/13 15:18	01/03/14 09:27	1

Client Sample ID: NE-B-3_SUB

Lab Sample ID: 680-96525-4

Date Collected: 11/22/13 13:45

Matrix: Solid

Date Received: 11/26/13 10:00

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-234	1.91	U		2.31	pCi/g		12/12/13 15:18	01/03/14 09:27	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**0.931**		1.00	0.0697	pCi/g		12/03/13 12:50	12/26/13 16:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*40 - 110*	*12/03/13 12:50*	*12/26/13 16:53*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.03**		1.00	0.365	pCi/g		12/03/13 13:00	12/19/13 11:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*40 - 110*	*12/03/13 13:00*	*12/19/13 11:47*	*1*
Y Carrier	*89.0*		*40 - 110*	*12/03/13 13:00*	*12/19/13 11:47*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.80**		1.00	0.0588	pCi/g		12/27/13 11:05	01/14/14 13:33	1
Thorium-230	**1.17**		1.00	0.0328	pCi/g		12/27/13 11:05	01/14/14 13:33	1
Thorium-232	**1.55**		1.00	0.0274	pCi/g		12/27/13 11:05	01/14/14 13:33	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*84.6*		*30 - 110*	*12/27/13 11:05*	*01/14/14 13:33*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.05**		1.00	0.0159	pCi/g		12/27/13 11:05	01/14/14 13:39	1
Uranium-235/236	**0.0592**		1.00	0.0197	pCi/g		12/27/13 11:05	01/14/14 13:39	1
Uranium-238	**1.01**		1.00	0.0389	pCi/g		12/27/13 11:05	01/14/14 13:39	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*79.5*		*30 - 110*	*12/27/13 11:05*	*01/14/14 13:39*	*1*

Client Sample ID: NE-B-3_SUB DUP

Lab Sample ID: 680-96525-5

Date Collected: 11/22/13 13:45

Matrix: Solid

Date Received: 11/26/13 10:00

Percent Solids: 90.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6800**		110	74	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Antimony	3.4	U	5.3	3.4	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Barium	**110**		27	1.3	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Beryllium	0.90	U	2.7	0.90	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Cadmium	0.53	U	2.7	0.53	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Calcium	**28000**		1300	71	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Chromium	**11**		5.3	1.6	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Cobalt	**9.3**	**J**	27	5.0	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Copper	**16**		13	3.9	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Iron	**9600**		53	16	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Lead	**7.4**		5.3	0.91	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-3_SUB DUP
Date Collected: 11/22/13 13:45
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-5
Matrix: Solid
Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	5900		530	44	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Manganese	230		5.3	0.82	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Nickel	16	J	21	1.2	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Potassium	1800	U	2700	1800	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Selenium	1.5	U	8.0	1.5	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Silver	1.2	U	5.3	1.2	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Sodium	500	J	530	250	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Titanium	540		11	3.3	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Vanadium	23	J	27	6.7	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5
Zinc	37		27	10	mg/Kg	☼	12/04/13 10:50	12/31/13 20:04	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.2	J	5.3	1.4	mg/Kg	☼	12/04/13 11:01	12/26/13 21:09	10
Niobium	2.0	U	13	2.0	mg/Kg	☼	12/04/13 11:01	12/26/13 21:09	10
Thallium	0.81	U	2.7	0.81	mg/Kg	☼	12/04/13 11:01	12/26/13 21:09	10
Uranium	1.4		0.53	0.11	mg/Kg	☼	12/04/13 11:01	12/26/13 21:09	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.034	0.011	mg/Kg	☼	12/02/13 13:49	12/03/13 12:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.8		0.22	0.044	mg/Kg	☼		12/18/13 22:47	1
Sulfate	130		5.5	0.55	mg/Kg	☼		12/18/13 22:47	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290		44	4.4	mg/Kg	☼		12/18/13 23:04	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	27.8		10.0	5.70	pCi/g		12/09/13 08:58	12/10/13 06:33	1
Gross Beta	29.5		10.0	2.84	pCi/g		12/09/13 08:58	12/10/13 06:33	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.75			0.283	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Bismuth-212	1.47			1.23	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Bismuth-214	1.35			0.156	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Bismuth-210M	0.0547	U		0.118	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Cesium-134	-0.00800	U		0.103	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Cesium-137	0.00258	U		0.0836	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Cobalt-57	0.000551	U		0.0677	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Cobalt-60	0.0151	U		0.0944	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Lead-212	1.54			0.206	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Lead-214	1.15			0.185	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Potassium-40	27.4			0.837	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Protactinium-231	-1.56	U		2.78	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Protactinium-234	-0.139	U		0.379	pCi/g		12/12/13 15:18	01/03/14 09:27	1

Client Sample ID: NE-B-3_SUB DUP

Lab Sample ID: 680-96525-5

Date Collected: 11/22/13 13:45

Matrix: Solid

Date Received: 11/26/13 10:00

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-224	-4.14	U		4.01	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Thallium-208	**0.568**			0.100	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Thorium-227	0.0872	U		1.51	pCi/g		12/12/13 15:18	01/03/14 09:27	1
Thorium-234	0.670	U		2.32	pCi/g		12/12/13 15:18	01/03/14 09:27	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**0.929**		1.00	0.0880	pCi/g		12/03/13 12:50	12/26/13 16:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.2*		*40 - 110*	*12/03/13 12:50*	*12/26/13 16:53*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.00**		1.00	0.342	pCi/g		12/03/13 13:00	12/19/13 11:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.2*		*40 - 110*	*12/03/13 13:00*	*12/19/13 11:47*	*1*
Y Carrier	*86.0*		*40 - 110*	*12/03/13 13:00*	*12/19/13 11:47*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.64**		1.00	0.0609	pCi/g		12/27/13 11:05	01/14/14 13:33	1
Thorium-230	**1.18**		1.00	0.0151	pCi/g		12/27/13 11:05	01/14/14 13:33	1
Thorium-232	**1.66**		1.00	0.0150	pCi/g		12/27/13 11:05	01/14/14 13:33	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*87.2*		*30 - 110*	*12/27/13 11:05*	*01/14/14 13:33*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.11**		1.00	0.0148	pCi/g		12/27/13 11:05	01/14/14 13:39	1
Uranium-235/236	**0.0368**		1.00	0.0184	pCi/g		12/27/13 11:05	01/14/14 13:39	1
Uranium-238	**0.992**		1.00	0.0272	pCi/g		12/27/13 11:05	01/14/14 13:39	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*87.5*		*30 - 110*	*12/27/13 11:05*	*01/14/14 13:39*	*1*

Client Sample ID: NE-B-1_SS

Lab Sample ID: 680-96525-6

Date Collected: 11/22/13 09:00

Matrix: Solid

Date Received: 11/26/13 10:00

Percent Solids: 94.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**5.1**	**J B**	42	1.0	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-2	**3.1**	**J B**	42	0.97	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-3	**8.1**	**J B**	42	0.95	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-4	28	U	42	28	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-5	5.9	U	42	5.9	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-6	5.9	U	42	5.9	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-7	5.5	U	42	5.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-8	5.8	U	42	5.8	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-1_SS
Date Collected: 11/22/13 09:00
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-6
Matrix: Solid
Percent Solids: 94.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-9	6.2	U	42	6.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-10	16	U	42	16	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-11	6.1	U	42	6.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-12/13	6.2	U	85	6.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-14	5.1	U	42	5.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-15	5.8	U	42	5.8	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-16	2.1	U	42	2.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-17	1.5	U	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-18/30	**2.7**	**J**	85	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-19	2.0	U	42	2.0	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-20/28	**17**	**J B**	85	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-21/33	**8.0**	**J B**	85	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-22	**7.8**	**J**	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-23	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-24	1.1	U	42	1.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-25	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-26/29	1.2	U	85	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-27	1.1	U	42	1.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-31	**16**	**J B**	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-32	**1.6**	**J q**	42	0.85	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-34	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-35	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-36	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-37	**4.6**	**J**	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-38	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-39	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-40/71	**9.4**	**J**	85	0.82	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-41	**1.7**	**J q**	42	1.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-42	**4.3**	**J**	42	0.91	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-43	0.94	U	42	0.94	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-44/47/65	**28**	**J B**	130	0.78	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-45	0.92	U	42	0.92	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-46	0.98	U	42	0.98	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-48	**3.0**	**J q**	42	0.84	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-49/69	**14**	**J**	85	0.68	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-50/53	**2.2**	**J**	85	0.77	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-51	0.77	U	42	0.77	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-52	**54**	**B**	42	0.86	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-54	1.0	U	42	1.0	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-55	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-56	**11**	**J**	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-57	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-58	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-59/62/75	**1.4**	**J q**	130	0.60	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-60	**4.7**	**J q**	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-61/70/74/76	**76**	**J B**	170	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-63	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-64	**12**	**J**	42	0.57	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-66	**25**	**J q**	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-1_SS
Date Collected: 11/22/13 09:00
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-6
Matrix: Solid
Percent Solids: 94.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-67	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-68	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-72	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-73	0.65	U	42	0.65	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-77	1.5	U	4.2	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-78	1.5	U	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-79	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-80	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-81	1.4	U	4.2	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-82	**9.1**	**J q**	42	2.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-83	**3.3**	**J**	42	2.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-84	**23**	**J**	42	2.0	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-85/116/117	**12**	**J q**	130	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-86/87/97/108/119/125	**64**	**J B**	250	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-88/91	**11**	**J**	85	1.7	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-89	1.9	U	42	1.9	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-90/101/113	**98**	**J B**	130	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-92	**17**	**J**	42	1.8	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-93/100	1.7	U	85	1.7	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-107/124	**2.8**	**J**	85	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-94	1.8	U	42	1.8	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-95	**68**	**B**	42	1.7	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-96	0.43	U	42	0.43	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-98/102	1.6	U	85	1.6	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-99	**47**	**B**	42	1.8	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-103	1.6	U	42	1.6	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-104	0.55	U	42	0.55	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-105	**22**		4.2	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-106	1.5	U	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-110/115	**110**	**B**	85	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-109	**4.3**	**J**	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-111	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-112	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-114	1.5	U	4.2	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-118	**56**	**B**	4.2	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-120	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-121	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-122	1.6	U	42	1.6	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-123	1.4	U	4.2	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-126	1.5	U	4.2	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-127	1.5	U	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-128/166	**6.9**	**J**	85	1.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-129/138/163	**51**	**J B**	130	1.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-130	**2.4**	**J q**	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-131	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-132	**17**	**J**	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-133	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-134/143	**2.2**	**J**	85	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-135/151	**15**	**J**	85	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-1_SS
Date Collected: 11/22/13 09:00
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-6
Matrix: Solid
Percent Solids: 94.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-136	6.4	J	42	0.84	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-137	3.2	J	42	1.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-139/140	1.1	U	85	1.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-141	9.2	J q	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-142	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-144	2.5	J	42	1.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-145	0.82	U	42	0.82	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-146	7.3	J	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-147/149	43	J B	85	1.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-148	1.1	U	42	1.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-150	0.76	U	42	0.76	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-152	0.78	U	42	0.78	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-153/168	41	J B	85	0.95	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-154	1.0	U	42	1.0	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-155	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-156/157	5.8	J	8.5	0.68	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-158	4.5	J	42	0.87	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-159	0.61	U	42	0.61	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-160	1.0	U	42	1.0	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-161	0.87	U	42	0.87	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-162	0.59	U	42	0.59	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-164	2.3	J q	42	0.97	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-165	1.0	U	42	1.0	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-167	2.0	J	4.2	0.53	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-169	0.59	U	4.2	0.59	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-170	9.9	J	42	0.70	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-171/173	2.6	J	85	0.64	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-172	1.8	J q	42	0.66	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-174	12	J q	42	0.66	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-175	0.85	U	42	0.85	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-176	1.5	J	42	0.57	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-177	4.8	J	42	0.66	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-178	1.4	J q	42	0.89	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-179	4.7	J	42	0.62	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-180/193	26	J	85	0.53	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-181	0.54	U	42	0.54	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-182	0.79	U	42	0.79	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-183	5.4	J q	42	0.49	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-184	0.64	U	42	0.64	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-185	0.59	U	42	0.59	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-186	0.61	U	42	0.61	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-187	12	J	42	0.83	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-188	0.87	U	42	0.87	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-189	0.58	U	4.2	0.58	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-190	1.3	J q	42	0.50	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-191	0.48	U	42	0.48	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-192	0.50	U	42	0.50	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-194	7.5	J	42	0.60	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-195	1.4	J q	42	0.56	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-1_SS
Date Collected: 11/22/13 09:00
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-6
Matrix: Solid
Percent Solids: 94.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-196	3.0	J	42	0.48	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-197	0.59	J q	42	0.32	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-198/199	6.5	J	85	0.50	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-200	0.62	J q	42	0.32	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-201	1.1	J q	42	0.32	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-202	1.7	J q	42	0.48	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-203	4.1	J	42	0.44	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-204	0.33	U	42	0.33	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-205	0.44	J q	42	0.35	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-206	7.6	J	42	0.54	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-207	4.0	J q	42	0.42	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-208	2.9	J	42	0.54	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
PCB-209	79	B	42	0.42	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
Total Monochlorobiphenyls	16	J B	420	0.98	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
Total Dichlorobiphenyls	28	U	420	28	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
Total Trichlorobiphenyls	58	J q B	420	1.3	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
Total Tetrachlorobiphenyls	250	J q B	420	1.1	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
Total Pentachlorobiphenyls	550	q B	420	1.5	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
Total Hexachlorobiphenyls	220	J q B	420	1.0	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
Total Heptachlorobiphenyls	84	J q	420	0.65	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
Total Octachlorobiphenyls	27	J q	420	0.43	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
Total Nonachlorobiphenyls	15	J q	420	0.50	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1
Polychlorinated biphenyls, Total	1300	q B	420	3.6	pg/g	☼	12/30/13 13:50	02/10/14 17:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*26*		*5 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-15L	*40*		*5 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-123L	*57*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-114L	*57*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-202L	*51*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-3L	*32*		*5 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-118L	*59*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-126L	*72*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-206L	*80*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-169L	*99*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-37L	*50*		*5 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-19L	*32*		*5 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-188L	*37*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-54L	*28*		*5 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-156L/157L	*87*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-167L	*83*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-209L	*75*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-189L	*76*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-105L	*61*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-208L	*71*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-1L	*26*		*5 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-104L	*33*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-81L	*61*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-77L	*63*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*
PCB-205L	*81*		*10 - 145*	*12/30/13 13:50*	*02/10/14 17:14*	*1*

Client Sample ID: NE-B-1_SS
Date Collected: 11/22/13 09:00
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-6
Matrix: Solid
Percent Solids: 94.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-155L	39		10 - 145	12/30/13 13:50	02/10/14 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	44		5 - 145	12/30/13 13:50	02/10/14 17:14	1
PCB-111L	53		10 - 145	12/30/13 13:50	02/10/14 17:14	1
PCB-178L	61		10 - 145	12/30/13 13:50	02/10/14 17:14	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5700**		100	70	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Antimony	3.2	U	5.0	3.2	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Barium	**72**		25	1.3	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Beryllium	0.85	U	2.5	0.85	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Cadmium	0.50	U	2.5	0.50	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Calcium	**17000**		1300	67	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Chromium	**7.8**		5.0	1.5	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Cobalt	**8.2**	**J**	25	4.7	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Copper	**17**		13	3.7	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Iron	**9300**		50	15	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Lead	**7.0**		5.0	0.87	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Magnesium	**9700**		500	42	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Manganese	**210**		5.0	0.77	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Nickel	**16**	**J**	20	1.1	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Potassium	1700	U	2500	1700	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Selenium	1.5	U	7.5	1.5	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Silver	1.2	U	5.0	1.2	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Sodium	**400**	**J**	500	240	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Titanium	**620**		10	3.2	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Vanadium	**22**	**J**	25	6.3	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5
Zinc	**36**		25	10	mg/Kg	☼	12/04/13 10:50	12/31/13 20:08	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.6**	**J**	5.0	1.3	mg/Kg	☼	12/04/13 11:01	12/26/13 21:16	10
Niobium	1.9	U	13	1.9	mg/Kg	☼	12/04/13 11:01	12/26/13 21:16	10
Thallium	0.76	U	2.5	0.76	mg/Kg	☼	12/04/13 11:01	12/26/13 21:16	10
Uranium	**1.3**		0.50	0.10	mg/Kg	☼	12/04/13 11:01	12/26/13 21:16	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.030	0.010	mg/Kg	☼	12/02/13 13:49	12/03/13 12:14	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**8.6**		0.21	0.042	mg/Kg	☼		12/19/13 00:09	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**220**		100	10	mg/Kg	☼		12/19/13 00:26	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-1_SS

Lab Sample ID: 680-96525-6
Date Collected: 11/22/13 09:00
Matrix: Solid
Date Received: 11/26/13 10:00
Percent Solids: 94.6

General Chemistry - Soluble - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18000		2100	210	mg/Kg	☼		12/19/13 11:10	1000

Client Sample ID: NE-B-1_SUB

Lab Sample ID: 680-96525-7
Date Collected: 11/22/13 10:00
Matrix: Solid
Date Received: 11/26/13 10:00
Percent Solids: 92.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		110	74	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Antimony	3.4	U	5.3	3.4	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Barium	180		27	1.3	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Beryllium	0.90	U	2.7	0.90	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Cadmium	0.53	U	2.7	0.53	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Calcium	25000		1300	71	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Chromium	12		5.3	1.6	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Cobalt	8.9	J	27	5.0	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Copper	17		13	3.9	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Iron	15000		53	16	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Lead	10		5.3	0.91	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Magnesium	9900		530	44	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Manganese	350		5.3	0.82	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Nickel	17	J	21	1.2	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Potassium	2100	J	2700	1800	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Selenium	1.5	U	8.0	1.5	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Silver	1.2	U	5.3	1.2	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Sodium	960		530	250	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Titanium	930		11	3.3	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Vanadium	36		27	6.7	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5
Zinc	39		27	11	mg/Kg	☼	12/04/13 10:50	12/31/13 20:12	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2	J	5.3	1.4	mg/Kg	☼	12/04/13 11:01	12/26/13 21:23	10
Niobium	2.0	U	13	2.0	mg/Kg	☼	12/04/13 11:01	12/26/13 21:23	10
Thallium	0.81	U	2.7	0.81	mg/Kg	☼	12/04/13 11:01	12/26/13 21:23	10
Uranium	0.95		0.53	0.11	mg/Kg	☼	12/04/13 11:01	12/26/13 21:23	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.032	0.011	mg/Kg	☼	12/02/13 13:49	12/03/13 12:15	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	9.3		0.21	0.043	mg/Kg	☼		12/19/13 00:59	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	690		110	11	mg/Kg	☼		12/19/13 01:15	20

Client Sample ID: NE-B-1_SUB

Lab Sample ID: 680-96525-7

Date Collected: 11/22/13 10:00
Matrix: Solid
Date Received: 11/26/13 10:00
Percent Solids: 92.9

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3700		430	43	mg/Kg	☼		12/19/13 01:31	200

Client Sample ID: NE-B-1_SUB DUP

Lab Sample ID: 680-96525-8

Date Collected: 11/22/13 10:00
Matrix: Solid
Date Received: 11/26/13 10:00
Percent Solids: 90.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8800		100	72	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Antimony	3.3	U	5.1	3.3	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Barium	150		26	1.3	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Beryllium	0.87	U	2.6	0.87	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Cadmium	0.51	U	2.6	0.51	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Calcium	29000		1300	68	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Chromium	11		5.1	1.6	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Cobalt	9.0	J	26	4.8	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Copper	16		13	3.7	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Iron	12000		51	15	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Lead	8.5		5.1	0.88	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Magnesium	8800		510	43	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Manganese	320		5.1	0.79	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Nickel	16	J	21	1.2	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Potassium	1700	J	2600	1700	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Selenium	1.5	U	7.7	1.5	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Silver	1.2	U	5.1	1.2	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Sodium	690		510	240	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Titanium	710		10	3.2	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Vanadium	29		26	6.5	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5
Zinc	37		26	10	mg/Kg	☼	12/04/13 10:50	12/31/13 20:35	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		5.1	1.3	mg/Kg	☼	12/04/13 11:01	12/26/13 22:03	10
Niobium	2.0	U	13	2.0	mg/Kg	☼	12/04/13 11:01	12/26/13 22:03	10
Thallium	0.78	U	2.6	0.78	mg/Kg	☼	12/04/13 11:01	12/26/13 22:03	10
Uranium	1.2		0.51	0.10	mg/Kg	☼	12/04/13 11:01	12/26/13 22:03	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.033	0.011	mg/Kg	☼	12/02/13 13:49	12/03/13 12:22	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	11		0.22	0.044	mg/Kg	☼		12/19/13 03:59	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	610		110	11	mg/Kg	☼		12/19/13 04:16	20

Client Sample ID: NE-B-1_SUB DUP

Lab Sample ID: 680-96525-8

Date Collected: 11/22/13 10:00
Matrix: Solid
Date Received: 11/26/13 10:00
Percent Solids: 90.9

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		440	44	mg/Kg	☼		12/19/13 04:32	200

Client Sample ID: RINSATE

Lab Sample ID: 680-96525-9

Date Collected: 11/25/13 12:30
Matrix: Water
Date Received: 11/26/13 10:00

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	5.2	J q	200	0.93	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-2	0.96	U	200	0.96	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-3	2.0	J q	200	1.0	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-4	4.2	U	200	4.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-5	4.9	U	200	4.9	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-6	4.9	U	200	4.9	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-7	4.6	U	200	4.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-8	4.8	U	200	4.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-9	5.2	U	200	5.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-10	2.7	U	200	2.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-11	40	J	200	5.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-12/13	5.2	U	400	5.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-14	4.3	U	200	4.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-15	5.3	U	200	5.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-16	4.5	U	200	4.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-17	3.1	U	200	3.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-18/30	5.8	J q	400	2.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-19	3.8	U	200	3.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-20/28	11	J q B	400	2.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-21/33	6.6	J	400	2.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-22	3.9	J	200	2.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-23	2.1	U	200	2.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-24	2.3	U	200	2.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-25	2.2	U	200	2.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-26/29	2.2	U	400	2.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-27	2.3	U	200	2.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-31	10	J q B	200	2.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-32	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-34	2.2	U	200	2.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-35	2.5	U	200	2.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-36	2.2	U	200	2.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-37	2.8	U	200	2.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-38	2.4	U	200	2.4	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-39	2.2	U	200	2.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-40/71	4.4	J q	400	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-41	2.3	U	200	2.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-42	4.5	J	200	2.0	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-43	2.0	U	200	2.0	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-44/47/65	20	J B	600	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-45	2.9	J	200	2.0	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-46	2.1	U	200	2.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-48	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: RINSATE
Date Collected: 11/25/13 12:30
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-9
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-49/69	7.2	J q B	400	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-50/53	2.4	J q	400	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-51	1.7	U	200	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-52	23	J B	200	1.9	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-54	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-55	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-56	2.0	U	200	2.0	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-57	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-58	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-59/62/75	1.3	U	600	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-60	1.9	U	200	1.9	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-61/70/74/76	15	J	800	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-63	1.7	U	200	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-64	6.5	J	200	1.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-66	5.1	J q B	200	2.0	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-67	1.7	U	200	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-68	1.6	U	200	1.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-72	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-73	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-77	2.3	U	20	2.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-78	2.1	U	200	2.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-79	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-80	1.7	U	200	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-81	2.1	U	20	2.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-82	2.2	U	200	2.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-83	2.4	U	200	2.4	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-84	2.0	U	200	2.0	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-85/116/117	1.5	U	600	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-86/87/97/108/119/125	5.9	J q	1200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-88/91	1.7	U	400	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-89	1.9	U	200	1.9	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-90/101/113	8.5	J B	600	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-92	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-93/100	1.7	U	400	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-107/124	1.4	U	400	1.4	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-94	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-95	8.5	J q B	200	1.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-96	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-98/102	1.6	U	400	1.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-99	4.7	J	200	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-103	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-104	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-105	1.6	U	20	1.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-106	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-110/115	6.9	J q B	400	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-109	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-111	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-112	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-114	1.4	U	20	1.4	pg/L		12/17/13 10:53	01/31/14 02:21	1

Client Sample ID: RINSATE
Date Collected: 11/25/13 12:30
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-9
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-115	6.9	J q B	400	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-118	4.7	J B	20	1.4	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-120	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-121	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-122	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-123	1.5	U	20	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-126	1.9	U	20	1.9	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-127	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-128/166	1.6	U	400	1.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-129/138/163	5.0	J q B	600	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-130	2.2	U	200	2.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-131	2.1	U	200	2.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-132	1.9	U	200	1.9	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-133	1.9	U	200	1.9	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-134/143	2.0	U	400	2.0	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-135/151	1.7	U	400	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-136	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-137	1.7	U	200	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-139/140	1.6	U	400	1.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-141	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-142	1.9	U	200	1.9	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-144	1.7	U	200	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-145	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-146	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-147/149	3.3	J q B	400	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-148	1.7	U	200	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-150	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-152	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-153/168	3.3	J q B	400	1.4	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-154	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-155	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-156/157	1.6	U	40	1.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-158	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-159	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-160	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-161	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-162	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-164	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-165	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-167	1.2	U	20	1.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-169	1.7	U	20	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-170	1.6	U	200	1.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-171/173	1.4	U	400	1.4	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-172	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-174	2.7	J	200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-175	2.1	U	200	2.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-176	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-177	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-178	2.2	U	200	2.2	pg/L		12/17/13 10:53	01/31/14 02:21	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: RINSATE
Date Collected: 11/25/13 12:30
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-9
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-179	1.6	U	200	1.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-180/193	**1.8**	**J q**	400	1.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-181	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-182	2.0	U	200	2.0	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-183	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-184	1.6	U	200	1.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-185	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-186	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-187	2.1	U	200	2.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-188	1.6	U	200	1.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-189	3.0	U	20	3.0	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-190	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-191	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-192	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-194	2.6	U	200	2.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-195	2.5	U	200	2.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-196	1.6	U	200	1.6	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-197	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-198/199	1.7	U	400	1.7	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-200	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-201	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-202	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-203	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-204	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-205	1.9	U	200	1.9	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-206	2.5	U	200	2.5	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-207	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-208	2.0	U	200	2.0	pg/L		12/17/13 10:53	01/31/14 02:21	1
PCB-209	**3.3**	**J q**	200	1.8	pg/L		12/17/13 10:53	01/31/14 02:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*45*		*5 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-3L	*53*		*5 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-4L	*52*		*5 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-15L	*66*		*5 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-19L	*56*		*5 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-37L	*65*		*5 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-54L	*48*		*5 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-77L	*73*		*10 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-81L	*73*		*10 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-104L	*54*		*10 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-105L	*72*		*10 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-114L	*72*		*10 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-118L	*72*		*10 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-123L	*71*		*10 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-126L	*72*		*10 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-155L	*61*		*10 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-156L/157L	*81*		*10 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-167L	*80*		*10 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*
PCB-169L	*76*		*10 - 145*	*12/17/13 10:53*	*01/31/14 02:21*	*1*

Client Sample ID: RINSATE
Date Collected: 11/25/13 12:30
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-9
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-188L	66		10 - 145	12/17/13 10:53	01/31/14 02:21	1
PCB-189L	74		10 - 145	12/17/13 10:53	01/31/14 02:21	1
PCB-202L	77		10 - 145	12/17/13 10:53	01/31/14 02:21	1
PCB-205L	84		10 - 145	12/17/13 10:53	01/31/14 02:21	1
PCB-206L	82		10 - 145	12/17/13 10:53	01/31/14 02:21	1
PCB-208L	86		10 - 145	12/17/13 10:53	01/31/14 02:21	1
PCB-209L	80		10 - 145	12/17/13 10:53	01/31/14 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	77		5 - 145	12/17/13 10:53	01/31/14 02:21	1
PCB-111L	79		10 - 145	12/17/13 10:53	01/31/14 02:21	1
PCB-178L	85		10 - 145	12/17/13 10:53	01/31/14 02:21	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.16	U	9.8	0.16	pg/L		12/16/13 16:32	01/10/14 02:21	1
2,3,7,8-TCDF	0.10	U	9.8	0.10	pg/L		12/16/13 16:32	01/10/14 02:21	1
1,2,3,7,8-PeCDD	0.22	U	49	0.22	pg/L		12/16/13 16:32	01/10/14 02:21	1
1,2,3,7,8-PeCDF	0.15	U	49	0.15	pg/L		12/16/13 16:32	01/10/14 02:21	1
2,3,4,7,8-PeCDF	0.16	U	49	0.16	pg/L		12/16/13 16:32	01/10/14 02:21	1
1,2,3,4,7,8-HxCDD	0.14	U	49	0.14	pg/L		12/16/13 16:32	01/10/14 02:21	1
1,2,3,6,7,8-HxCDD	0.45	U	49	0.45	pg/L		12/16/13 16:32	01/10/14 02:21	1
1,2,3,7,8,9-HxCDD	0.11	U	49	0.11	pg/L		12/16/13 16:32	01/10/14 02:21	1
1,2,3,4,7,8-HxCDF	**0.70**	**J q B**	49	0.14	pg/L		12/16/13 16:32	01/10/14 02:21	1
1,2,3,6,7,8-HxCDF	**0.43**	**J**	49	0.12	pg/L		12/16/13 16:32	01/10/14 02:21	1
1,2,3,7,8,9-HxCDF	**0.40**	**J**	49	0.14	pg/L		12/16/13 16:32	01/10/14 02:21	1
2,3,4,6,7,8-HxCDF	0.13	U	49	0.13	pg/L		12/16/13 16:32	01/10/14 02:21	1
1,2,3,4,6,7,8-HpCDD	**1.2**	**J B**	49	0.19	pg/L		12/16/13 16:32	01/10/14 02:21	1
1,2,3,4,6,7,8-HpCDF	**1.9**	**J B**	49	0.12	pg/L		12/16/13 16:32	01/10/14 02:21	1
1,2,3,4,7,8,9-HpCDF	**0.62**	**J**	49	0.14	pg/L		12/16/13 16:32	01/10/14 02:21	1
OCDD	**8.8**	**J B**	98	0.19	pg/L		12/16/13 16:32	01/10/14 02:21	1
OCDF	**3.2**	**J B**	98	0.18	pg/L		12/16/13 16:32	01/10/14 02:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	84		40 - 135	12/16/13 16:32	01/10/14 02:21	1
13C-2,3,7,8-TCDF	87		40 - 135	12/16/13 16:32	01/10/14 02:21	1
13C-1,2,3,7,8-PeCDD	87		40 - 135	12/16/13 16:32	01/10/14 02:21	1
13C-1,2,3,7,8-PeCDF	87		40 - 135	12/16/13 16:32	01/10/14 02:21	1
13C-1,2,3,6,7,8-HxCDD	94		40 - 135	12/16/13 16:32	01/10/14 02:21	1
13C-1,2,3,4,7,8-HxCDF	86		40 - 135	12/16/13 16:32	01/10/14 02:21	1
13C-1,2,3,4,6,7,8-HpCDD	86		40 - 135	12/16/13 16:32	01/10/14 02:21	1
13C-1,2,3,4,6,7,8-HpCDF	89		40 - 135	12/16/13 16:32	01/10/14 02:21	1
13C-OCDD	84		40 - 135	12/16/13 16:32	01/10/14 02:21	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	6.0	U ^	10	6.0	ug/L		12/23/13 15:26	12/26/13 23:04	1
Aluminum	80	U	200	80	ug/L		12/23/13 15:26	12/26/13 23:04	1
Barium	4.0	U	50	4.0	ug/L		12/23/13 15:26	12/26/13 23:04	1
Beryllium	0.61	U	5.0	0.61	ug/L		12/23/13 15:26	12/26/13 23:04	1
Calcium	110	U	1000	110	ug/L		12/23/13 15:26	12/26/13 23:04	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: RINSATE
Date Collected: 11/25/13 12:30
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.91	U	5.0	0.91	ug/L		12/23/13 15:26	12/26/13 23:04	1
Cobalt	4.9	U	50	4.9	ug/L		12/23/13 15:26	12/26/13 23:04	1
Chromium	3.1	U ^	10	3.1	ug/L		12/23/13 15:26	12/26/13 23:04	1
Copper	4.6	U	25	4.6	ug/L		12/23/13 15:26	12/26/13 23:04	1
Iron	28	U	100	28	ug/L		12/23/13 15:26	12/26/13 23:04	1
Potassium	1700	U	5000	1700	ug/L		12/23/13 15:26	12/26/13 23:04	1
Magnesium	130	U	1000	130	ug/L		12/23/13 15:26	12/26/13 23:04	1
Manganese	3.3	U	15	3.3	ug/L		12/23/13 15:26	12/26/13 23:04	1
Sodium	320	U	1000	320	ug/L		12/23/13 15:26	12/26/13 23:04	1
Nickel	13	U	40	13	ug/L		12/23/13 15:26	12/26/13 23:04	1
Lead	1.5	U	10	1.5	ug/L		12/23/13 15:26	12/26/13 23:04	1
Antimony	4.0	U	10	4.0	ug/L		12/23/13 15:26	12/26/13 23:04	1
Selenium	2.7	U	15	2.7	ug/L		12/23/13 15:26	12/26/13 23:04	1
Titanium	2.4	U	20	2.4	ug/L		12/23/13 15:26	12/26/13 23:04	1
Vanadium	4.1	U	50	4.1	ug/L		12/23/13 15:26	12/26/13 23:04	1
Zinc	5.2	U	20	5.2	ug/L		12/23/13 15:26	12/26/13 23:04	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.7**	**J**	10	1.2	ug/L		12/26/13 15:25	12/30/13 19:05	1
Niobium	2.2	U	25	2.2	ug/L		12/26/13 15:25	12/30/13 19:05	1
Thallium	**1.1**	**J ^**	2.0	0.55	ug/L		12/26/13 15:25	12/30/13 19:05	1
Uranium	**0.23**	**J**	1.0	0.23	ug/L		12/26/13 15:25	12/30/13 19:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		12/03/13 07:05	12/03/13 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.19**		0.020	0.0040	mg/L			11/26/13 12:32	1
Chloride	0.020	U	0.20	0.020	mg/L			11/26/13 12:32	1
Sulfate	0.050	U	0.50	0.050	mg/L			11/26/13 12:32	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	0.141	U	3.00	1.29	pCi/L		12/27/13 12:05	12/30/13 08:34	1
Gross Beta	-0.523	U	4.00	0.937	pCi/L		12/27/13 12:05	12/30/13 08:34	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	6.61	U		43.3	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Bismuth-212	9.42	U		152	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Bismuth-214	-8.31	U		30.8	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Bismuth-210M	5.26	U		13.2	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Cesium-134	0.697	U		11.5	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Cesium-137	3.06	U		11.1	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Cobalt-57	-0.742	U		7.14	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Cobalt-60	-1.49	U		15.1	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Lead-212	-0.426	U		22.2	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Lead-214	-9.01	U		27.8	pCi/L		11/26/13 15:20	12/19/13 19:45	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: RINSATE
Date Collected: 11/25/13 12:30
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-9
Matrix: Water

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Potassium-40	-44.7	U		218	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Protactinium-231	14.3	U		288	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Protactinium-234	3.03	U		29.4	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Radium-224	-24.8	U		218	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Thallium-208	2.38	U		13.4	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Thorium-227	4.10	U		61.6	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Thorium-231	5.52	U		60.7	pCi/L		11/26/13 15:20	12/19/13 19:45	1
Thorium-234	44.3	U		201	pCi/L		11/26/13 15:20	12/19/13 19:45	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.0948	U	1.00	0.114	pCi/L		11/26/13 14:54	12/18/13 09:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*11/26/13 14:54*	*12/18/13 09:27*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.0831	U	1.00	0.425	pCi/L		12/17/13 14:46	12/20/13 12:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*12/17/13 14:46*	*12/20/13 12:27*	*1*
Y Carrier	*91.6*		*40 - 110*	*12/17/13 14:46*	*12/20/13 12:27*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.0647	U	1.00	0.398	pCi/L		01/07/14 11:06	01/10/14 20:51	1
Thorium-230	0.148	U *	1.00	0.260	pCi/L		01/07/14 11:06	01/10/14 20:51	1
Thorium-232	-0.0142	U	1.00	0.197	pCi/L		01/07/14 11:06	01/10/14 20:51	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*76.6*		*30 - 110*	*01/07/14 11:06*	*01/10/14 20:51*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
U-238	0.0847	U	1.00	0.271	pCi/L		01/07/14 11:06	01/10/14 20:53	1
Uranium-235/236	0.0284	U	1.00	0.370	pCi/L		01/07/14 11:06	01/10/14 20:53	1
Uranium-233/234	0.0457	U	1.00	0.355	pCi/L		01/07/14 11:06	01/10/14 20:53	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*56.9*		*30 - 110*	*01/07/14 11:06*	*01/10/14 20:53*	*1*

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

Lab Sample ID: MB 160-88803/1-A
Matrix: Solid
Analysis Batch: 89755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Acenaphthylene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Anthracene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Benzo[a]anthracene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Benzo[b]fluoranthene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Benzo[k]fluoranthene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Benzo[g,h,i]perylene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Benzo[a]pyrene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Chrysene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Dibenz(a,h)anthracene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Fluoranthene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Fluorene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Indeno[1,2,3-cd]pyrene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Naphthalene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Phenanthrene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1
Pyrene	33	U	330	33	ug/Kg		12/02/13 12:17	12/03/13 20:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*96*		*53 - 97*	*12/02/13 12:17*	*12/03/13 20:29*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*46 - 111*	*12/02/13 12:17*	*12/03/13 20:29*	*1*
Nitrobenzene-d5 (Surr)	*92*		*55 - 98*	*12/02/13 12:17*	*12/03/13 20:29*	*1*
Phenol-d5 (Surr)	*94*		*54 - 101*	*12/02/13 12:17*	*12/03/13 20:29*	*1*
Terphenyl-d14 (Surr)	*78*		*58 - 123*	*12/02/13 12:17*	*12/03/13 20:29*	*1*
2-Fluorobiphenyl (Surr)	*94*		*56 - 97*	*12/02/13 12:17*	*12/03/13 20:29*	*1*

Lab Sample ID: LCS 160-88803/2-A
Matrix: Solid
Analysis Batch: 89755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	3330	3100		ug/Kg		93	63 - 95
Acenaphthylene	3330	3160		ug/Kg		95	62 - 98
Anthracene	3330	3140		ug/Kg		94	63 - 100
Benzo[a]anthracene	3330	3470		ug/Kg		104	74 - 114
Benzo[b]fluoranthene	3330	3370		ug/Kg		101	68 - 109
Benzo[k]fluoranthene	3330	3310		ug/Kg		99	69 - 111
Benzo[g,h,i]perylene	3330	3460		ug/Kg		104	67 - 121
Benzo[a]pyrene	3330	3390		ug/Kg		102	63 - 103
Chrysene	3330	3150		ug/Kg		95	66 - 100
Dibenz(a,h)anthracene	3330	3500		ug/Kg		105	67 - 114
Fluoranthene	3330	3230		ug/Kg		97	63 - 101
Fluorene	3330	3040		ug/Kg		91	62 - 96
Indeno[1,2,3-cd]pyrene	3330	3500		ug/Kg		105	65 - 120
Naphthalene	3330	2900		ug/Kg		87	60 - 90
Phenanthrene	3330	3210		ug/Kg		96	63 - 99
Pyrene	3330	3420	*	ug/Kg		103	64 - 102

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

Lab Sample ID: LCS 160-88803/2-A
Matrix: Solid
Analysis Batch: 89755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88803

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*89*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*90*		*46 - 111*
Nitrobenzene-d5 (Surr)	*89*		*55 - 98*
Phenol-d5 (Surr)	*87*		*54 - 101*
Terphenyl-d14 (Surr)	*63*		*58 - 123*
2-Fluorobiphenyl (Surr)	*92*		*56 - 97*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	6.13	J	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-2	1.59	J	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-3	1.32	J	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-4	8.4	U	20	8.4	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-5	3.3	U	20	3.3	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-6	3.4	U	20	3.4	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-7	3.1	U	20	3.1	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-8	3.3	U	20	3.3	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-9	3.5	U	20	3.5	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-10	5.2	U	20	5.2	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-11	3.5	U	20	3.5	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-12/13	3.5	U	40	3.5	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-14	2.9	U	20	2.9	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-15	3.5	U	20	3.5	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-16	0.70	U	20	0.70	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-17	0.49	U	20	0.49	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-18/30	0.42	U	40	0.42	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-19	0.61	U	20	0.61	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-20/28	0.614	J q	40	0.32	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-21/33	0.379	J q	40	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-22	0.34	U	20	0.34	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-23	0.29	U	20	0.29	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-24	0.36	U	20	0.36	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-25	0.30	U	20	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-26/29	0.30	U	40	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-27	0.37	U	20	0.37	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-31	0.744	J	20	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-32	0.29	U	20	0.29	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-34	0.30	U	20	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-35	0.35	U	20	0.35	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-36	0.31	U	20	0.31	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-37	0.38	U	20	0.38	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-38	0.33	U	20	0.33	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-39	0.31	U	20	0.31	pg/g		12/19/13 17:37	01/20/14 16:14	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-40/71	0.24	U	40	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-41	0.31	U	20	0.31	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-42	0.26	U	20	0.26	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-43	0.27	U	20	0.27	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-44/47/65	1.38	J	60	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-45	0.26	U	20	0.26	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-46	0.28	U	20	0.28	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-48	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-49/69	0.306	J	40	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-50/53	0.22	U	40	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-51	0.22	U	20	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-52	0.930	J q	20	0.25	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-54	0.20	U	20	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-55	0.25	U	20	0.25	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-56	0.27	U	20	0.27	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-57	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-58	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-59/62/75	0.17	U	60	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-60	0.26	U	20	0.26	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-61/70/74/76	0.967	J	80	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-63	0.23	U	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-64	0.244	J	20	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-66	0.27	U	20	0.27	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-67	0.23	U	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-68	0.22	U	20	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-72	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-73	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-77	0.31	U	2.0	0.31	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-78	0.28	U	20	0.28	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-79	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-80	0.23	U	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-81	0.29	U	2.0	0.29	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-82	0.26	U	20	0.26	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-83	0.28	U	20	0.28	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-84	0.23	U	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-85/116/117	0.17	U	60	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-86/87/97/108/119/125	0.269	J q	120	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-88/91	0.20	U	40	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-89	0.22	U	20	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-90/101/113	0.577	J	60	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-92	0.21	U	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-93/100	0.20	U	40	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-107/124	0.16	U	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-94	0.21	U	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-95	0.421	J	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-96	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-98/102	0.18	U	40	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-99	0.21	U	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-103	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-104	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-105	0.19	U	2.0	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-106	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-110/115	0.588	J q	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-109	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-111	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-112	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-114	0.18	U	2.0	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-115	0.588	J q	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-118	0.427	J q	2.0	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-120	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-121	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-122	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-123	0.17	U	2.0	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-126	0.22	U	2.0	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-127	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-128/166	0.16	U	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-129/138/163	0.454	J q	60	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-130	0.22	U	20	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-131	0.21	U	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-132	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-133	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-134/143	0.20	U	40	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-135/151	0.17	U	40	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-136	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-137	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-139/140	0.16	U	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-141	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-142	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-144	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-145	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-146	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-147/149	0.285	J q	40	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-148	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-150	0.11	U	20	0.11	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-152	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-153/168	0.283	J q	40	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-154	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-155	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-156/157	0.22	U	4.0	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-158	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-159	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-160	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-161	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-162	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-164	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-165	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-167	0.18	U	2.0	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-169	0.20	U	2.0	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-170	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-171/173	0.16	U	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-172	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-174	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-175	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-176	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-177	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-178	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-179	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-180/193	0.240	J	40	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-181	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-182	0.16	U	20	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-183	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-184	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-185	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-186	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-187	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-188	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-189	0.19	U	2.0	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-190	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-191	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-192	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-194	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-195	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-196	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-197	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-198/199	0.19	U	40	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-200	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-201	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-202	0.16	U	20	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-203	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-204	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-205	0.11	U	20	0.11	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-206	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-207	0.11	U	20	0.11	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-208	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-209	0.959	J	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Monochlorobiphenyls	9.04	J	200	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Dichlorobiphenyls	8.4	U	200	8.4	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Trichlorobiphenyls	1.74	J q	200	0.37	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Tetrachlorobiphenyls	3.83	J q	200	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Pentachlorobiphenyls	2.28	J q	200	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Hexachlorobiphenyls	1.02	J q	200	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Heptachlorobiphenyls	0.240	J	200	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Octachlorobiphenyls	0.19	U	200	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Nonachlorobiphenyls	0.15	U	200	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	19.1	J q	200	1.0	pg/g		12/19/13 17:37	01/20/14 16:14	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*44*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-15L	*56*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-123L	*72*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-114L	*71*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-3L	*45*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-118L	*73*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-126L	*80*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-202L	*67*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-169L	*97*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-206L	*87*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-37L	*59*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-19L	*56*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-188L	*50*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-54L	*44*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-156L/157L	*85*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-167L	*82*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-209L	*85*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-189L	*76*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-105L	*73*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-208L	*84*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-1L	*40*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-104L	*52*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-81L	*72*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-77L	*71*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-205L	*86*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-155L	*51*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*50*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-111L	*71*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-178L	*77*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*

Lab Sample ID: LCS 320-32277/2-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	218		pg/g		109	60 - 135
PCB-3	200	211		pg/g		106	60 - 135
PCB-4	200	208		pg/g		104	60 - 135
PCB-15	200	223		pg/g		112	60 - 135
PCB-19	200	203		pg/g		101	60 - 135
PCB-37	200	208		pg/g		104	60 - 135
PCB-54	200	199		pg/g		100	60 - 135
PCB-77	200	218		pg/g		109	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32277/2-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-81	200	211		pg/g		105	60 - 135
PCB-104	200	202		pg/g		101	60 - 135
PCB-105	200	212		pg/g		106	60 - 135
PCB-114	200	214		pg/g		107	60 - 135
PCB-118	200	221		pg/g		110	60 - 135
PCB-123	200	207		pg/g		104	60 - 135
PCB-126	200	212		pg/g		106	60 - 135
PCB-155	200	217		pg/g		108	60 - 135
PCB-156/157	400	424		pg/g		106	60 - 135
PCB-167	200	208	G	pg/g		104	60 - 135
PCB-169	200	209	G	pg/g		104	60 - 135
PCB-188	200	215		pg/g		107	60 - 135
PCB-189	200	218		pg/g		109	60 - 135
PCB-202	200	219		pg/g		109	60 - 135
PCB-205	200	201		pg/g		100	60 - 135
PCB-206	200	208		pg/g		104	60 - 135
PCB-208	200	207		pg/g		103	60 - 135
PCB-209	200	205		pg/g		103	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*39*		*15 - 145*
PCB-15L	*51*		*15 - 145*
PCB-123L	*82*		*40 - 145*
PCB-114L	*83*		*40 - 145*
PCB-3L	*38*		*15 - 145*
PCB-118L	*84*		*40 - 145*
PCB-126L	*90*		*40 - 145*
PCB-202L	*67*		*40 - 145*
PCB-169L	*86*		*40 - 145*
PCB-206L	*85*		*40 - 145*
PCB-37L	*54*		*15 - 145*
PCB-19L	*45*		*15 - 145*
PCB-188L	*55*		*40 - 145*
PCB-54L	*56*		*15 - 145*
PCB-156L/157L	*77*		*40 - 145*
PCB-167L	*76*		*40 - 145*
PCB-209L	*83*		*40 - 145*
PCB-189L	*74*		*40 - 145*
PCB-105L	*85*		*40 - 145*
PCB-208L	*79*		*40 - 145*
PCB-1L	*30*		*15 - 145*
PCB-104L	*51*		*40 - 145*
PCB-81L	*70*		*40 - 145*
PCB-77L	*70*		*40 - 145*
PCB-205L	*82*		*40 - 145*
PCB-155L	*50*		*40 - 145*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32277/2-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32277

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*63*		*5 - 145*
PCB-111L	*79*		*10 - 145*
PCB-178L	*76*		*10 - 145*

Lab Sample ID: MB 320-32864/1-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32864

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	9.81	J	20	0.56	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-2	2.45	J q	20	0.51	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-3	1.77	J	20	0.48	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-4	24	U G	24	24	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-5	13	U	20	13	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-6	13	U	20	13	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-7	13	U	20	13	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-8	13	U	20	13	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-9	14	U	20	14	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-10	9.8	U	20	9.8	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-11	14	U	20	14	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-12/13	14	U	40	14	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-14	12	U	20	12	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-15	11	U	20	11	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-16	1.6	U	20	1.6	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-17	1.1	U	20	1.1	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-18/30	0.96	U	40	0.96	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-19	1.4	U	20	1.4	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-20/28	1.10	J	40	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-21/33	0.690	J q	40	0.34	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-22	0.39	U	20	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-23	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-24	0.83	U	20	0.83	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-25	0.34	U	20	0.34	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-26/29	0.35	U	40	0.35	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-27	0.84	U	20	0.84	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-31	0.660	J q	20	0.34	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-32	0.65	U	20	0.65	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-34	0.35	U	20	0.35	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-35	0.40	U	20	0.40	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-36	0.35	U	20	0.35	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-37	0.42	U	20	0.42	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-38	0.38	U	20	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-39	0.35	U	20	0.35	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-40/71	0.28	U	40	0.28	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-41	0.37	U	20	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-42	0.31	U	20	0.31	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-43	0.32	U	20	0.32	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-44/47/65	1.51	J q	60	0.27	pg/g		12/30/13 13:50	02/07/14 17:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32864/1-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32864

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-45	0.32	U	20	0.32	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-46	0.34	U	20	0.34	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-48	0.29	U	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-49/69	0.23	U	40	0.23	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-50/53	0.26	U	40	0.26	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-51	0.26	U	20	0.26	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-52	1.02	J q	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-54	0.63	U	20	0.63	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-55	0.44	U	20	0.44	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-56	0.48	U	20	0.48	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-57	0.43	U	20	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-58	0.43	U	20	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-59/62/75	0.21	U	60	0.21	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-60	0.46	U	20	0.46	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-61/70/74/76	0.682	J q	80	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-63	0.40	U	20	0.40	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-64	0.20	U	20	0.20	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-66	0.48	U	20	0.48	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-67	0.40	U	20	0.40	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-68	0.39	U	20	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-72	0.42	U	20	0.42	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-73	0.22	U	20	0.22	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-77	0.51	U	2.0	0.51	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-78	0.49	U	20	0.49	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-79	0.42	U	20	0.42	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-80	0.41	U	20	0.41	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-81	0.49	U	2.0	0.49	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-82	0.56	U	20	0.56	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-83	0.60	U	20	0.60	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-84	0.50	U	20	0.50	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-85/116/117	0.37	U	60	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-86/87/97/108/119/125	0.539	J	120	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-88/91	0.42	U	40	0.42	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-89	0.48	U	20	0.48	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-90/101/113	0.957	J	60	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-92	0.45	U	20	0.45	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-93/100	0.43	U	40	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-107/124	0.35	U	40	0.35	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-94	0.45	U	20	0.45	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-95	0.660	J	20	0.42	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-96	0.18	U	20	0.18	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-98/102	0.40	U	40	0.40	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-99	0.466	J q	20	0.45	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-103	0.39	U	20	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-104	0.20	U	20	0.20	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-105	0.39	U	2.0	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-106	0.38	U	20	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-110/115	0.892	J	40	0.34	pg/g		12/30/13 13:50	02/07/14 17:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32864/1-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32864

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-109	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-111	0.31	U	20	0.31	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-112	0.30	U	20	0.30	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-114	0.37	U	2.0	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-115	0.892	J	40	0.34	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-118	0.507	J q	2.0	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-120	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-121	0.31	U	20	0.31	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-122	0.39	U	20	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-123	0.36	U	2.0	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-126	0.43	U	2.0	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-127	0.38	U	20	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-128/166	0.36	U	40	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-129/138/163	0.694	J q	60	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-130	0.48	U	20	0.48	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-131	0.46	U	20	0.46	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-132	0.43	U	20	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-133	0.43	U	20	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-134/143	0.43	U	40	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-135/151	0.38	U	40	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-136	0.28	U	20	0.28	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-137	0.38	U	20	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-139/140	0.36	U	40	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-141	0.41	U	20	0.41	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-142	0.42	U	20	0.42	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-144	0.38	U	20	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-145	0.27	U	20	0.27	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-146	0.40	U	20	0.40	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-147/149	0.562	J	40	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-148	0.37	U	20	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-150	0.25	U	20	0.25	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-152	0.26	U	20	0.26	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-153/168	0.509	J q	40	0.32	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-154	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-155	0.30	U	20	0.30	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-156/157	0.36	U	4.0	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-158	0.29	U	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-159	0.30	U	20	0.30	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-160	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-161	0.29	U	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-162	0.29	U	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-164	0.32	U	20	0.32	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-165	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-167	0.28	U	2.0	0.28	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-169	0.32	U	2.0	0.32	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-170	0.26	U	20	0.26	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-171/173	0.24	U	40	0.24	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-172	0.25	U	20	0.25	pg/g		12/30/13 13:50	02/07/14 17:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32864/1-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32864

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-174	0.24	U	20	0.24	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-175	0.39	U	20	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-176	0.26	U	20	0.26	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-177	0.24	U	20	0.24	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-178	0.41	U	20	0.41	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-179	0.29	U	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-180/193	0.20	U	40	0.20	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-181	0.20	U	20	0.20	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-182	0.37	U	20	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-183	0.18	U	20	0.18	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-184	0.29	U	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-185	0.22	U	20	0.22	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-186	0.28	U	20	0.28	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-187	0.38	U	20	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-188	0.31	U	20	0.31	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-189	0.28	U	2.0	0.28	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-190	0.18	U	20	0.18	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-191	0.18	U	20	0.18	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-192	0.18	U	20	0.18	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-194	0.36	U	20	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-195	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-196	0.24	U	20	0.24	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-197	0.16	U	20	0.16	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-198/199	0.25	U	40	0.25	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-200	0.16	U	20	0.16	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-201	0.16	U	20	0.16	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-202	0.21	U	20	0.21	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-203	0.22	U	20	0.22	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-204	0.17	U	20	0.17	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-205	0.23	U	20	0.23	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-206	0.25	U	20	0.25	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-207	0.19	U	20	0.19	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-208	0.24	U	20	0.24	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-209	1.73	J	20	0.20	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Monochlorobiphenyls	14.0	J q	200	0.52	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Dichlorobiphenyls	24	U	200	24	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Trichlorobiphenyls	2.45	J q	200	0.61	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Tetrachlorobiphenyls	3.21	J q	200	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Pentachlorobiphenyls	4.02	J q	200	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Hexachlorobiphenyls	1.76	J q	200	0.35	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Heptachlorobiphenyls	0.41	U	200	0.41	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Octachlorobiphenyls	0.36	U	200	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Nonachlorobiphenyls	0.25	U	200	0.25	pg/g		12/30/13 13:50	02/07/14 17:06	1
Polychlorinated biphenyls, Total	27.2	J q	200	2.7	pg/g		12/30/13 13:50	02/07/14 17:06	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*38*		*5 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-15L	*55*		*5 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32864/1-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32864

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	75		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-114L	73		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-3L	43		5 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-118L	74		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-126L	80		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-202L	73		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-169L	90		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-206L	91		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-37L	65		5 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-19L	46		5 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-188L	65		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-54L	46		5 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-156L/157L	83		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-167L	82		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-209L	88		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-189L	83		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-105L	75		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-208L	87		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-1L	35		5 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-104L	50		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-81L	75		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-77L	75		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-205L	90		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-155L	58		10 - 145	12/30/13 13:50	02/07/14 17:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	58		5 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-111L	71		10 - 145	12/30/13 13:50	02/07/14 17:06	1
PCB-178L	81		10 - 145	12/30/13 13:50	02/07/14 17:06	1

Lab Sample ID: LCS 320-32864/2-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	204		pg/g		102	60 - 135
PCB-3	200	199		pg/g		100	60 - 135
PCB-4	200	212		pg/g		106	60 - 135
PCB-15	200	199		pg/g		99	60 - 135
PCB-19	200	210		pg/g		105	60 - 135
PCB-37	200	199		pg/g		99	60 - 135
PCB-54	200	204		pg/g		102	60 - 135
PCB-77	200	199		pg/g		99	60 - 135
PCB-81	200	209		pg/g		105	60 - 135
PCB-104	200	206		pg/g		103	60 - 135
PCB-105	200	207		pg/g		104	60 - 135
PCB-114	200	202		pg/g		101	60 - 135
PCB-118	200	210		pg/g		105	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32864/2-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-123			200	201		pg/g		100	60 - 135		
PCB-126			200	206		pg/g		103	60 - 135		
PCB-155			200	209		pg/g		104	60 - 135		
PCB-156/157			400	408		pg/g		102	60 - 135		
PCB-167			200	203		pg/g		101	60 - 135		
PCB-169			200	199		pg/g		100	60 - 135		
PCB-188			200	206		pg/g		103	60 - 135		
PCB-189			200	205		pg/g		103	60 - 135		
PCB-202			200	208		pg/g		104	60 - 135		
PCB-205			200	198		pg/g		99	60 - 135		
PCB-206			200	201		pg/g		100	60 - 135		
PCB-208			200	199		pg/g		100	60 - 135		
PCB-209			200	202		pg/g		101	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*32*		*15 - 145*
PCB-15L	*39*		*15 - 145*
PCB-123L	*45*		*40 - 145*
PCB-114L	*45*		*40 - 145*
PCB-3L	*36*		*15 - 145*
PCB-118L	*45*		*40 - 145*
PCB-126L	*52*		*40 - 145*
PCB-202L	*46*		*40 - 145*
PCB-169L	*61*		*40 - 145*
PCB-206L	*63*		*40 - 145*
PCB-37L	*40*		*15 - 145*
PCB-19L	*34*		*15 - 145*
PCB-188L	*39*	*	*40 - 145*
PCB-54L	*32*		*15 - 145*
PCB-156L/157L	*55*		*40 - 145*
PCB-167L	*52*		*40 - 145*
PCB-209L	*63*		*40 - 145*
PCB-189L	*56*		*40 - 145*
PCB-105L	*47*		*40 - 145*
PCB-208L	*58*		*40 - 145*
PCB-1L	*31*		*15 - 145*
PCB-104L	*33*	*	*40 - 145*
PCB-81L	*42*		*40 - 145*
PCB-77L	*45*		*40 - 145*
PCB-205L	*62*		*40 - 145*
PCB-155L	*35*	*	*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*50*		*5 - 145*
PCB-111L	*57*		*10 - 145*
PCB-178L	*66*		*10 - 145*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-31992/1-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31992

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.15	U	10	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1
2,3,7,8-TCDF	0.250	J	10	0.11	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8-PeCDD	0.22	U	50	0.22	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8-PeCDF	0.15	U	50	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1
2,3,4,7,8-PeCDF	0.15	U	50	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8-HxCDD	0.18	U	50	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,6,7,8-HxCDD	0.12	U	50	0.12	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8,9-HxCDD	0.11	U	50	0.11	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8-HxCDF	0.956	J q	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,6,7,8-HxCDF	0.12	U	50	0.12	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8,9-HxCDF	0.14	U	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
2,3,4,6,7,8-HxCDF	0.13	U	50	0.13	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,6,7,8-HpCDD	1.39	J	50	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,6,7,8-HpCDF	2.65	J	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8,9-HpCDF	0.17	U	50	0.17	pg/L		12/16/13 16:32	01/10/14 00:48	1
OCDD	10.1	J	100	0.20	pg/L		12/16/13 16:32	01/10/14 00:48	1
OCDF	4.14	J q	100	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*85*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,7,8-PeCDD	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,6,7,8-HxCDD	*93*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-2,3,7,8-TCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*86*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,7,8-HxCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-OCDD	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*

Lab Sample ID: LCS 320-31992/2-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	218		pg/L		109	64 - 142
2,3,7,8-TCDF	200	221		pg/L		111	71 - 142
1,2,3,7,8-PeCDD	1000	1090		pg/L		109	71 - 140
1,2,3,7,8-PeCDF	1000	1130		pg/L		113	76 - 135
2,3,4,7,8-PeCDF	1000	1110		pg/L		111	74 - 137
1,2,3,4,7,8-HxCDD	1000	1040		pg/L		104	56 - 146
1,2,3,6,7,8-HxCDD	1000	1150		pg/L		115	73 - 144
1,2,3,7,8,9-HxCDD	1000	1080		pg/L		108	71 - 151
1,2,3,4,7,8-HxCDF	1000	1190		pg/L		119	75 - 131
1,2,3,6,7,8-HxCDF	1000	1200		pg/L		120	76 - 133
1,2,3,7,8,9-HxCDF	1000	1150		pg/L		115	77 - 142
2,3,4,6,7,8-HxCDF	1000	1230		pg/L		123	80 - 137
1,2,3,4,6,7,8-HpCDD	1000	1070		pg/L		107	78 - 139
1,2,3,4,6,7,8-HpCDF	1000	1100		pg/L		110	79 - 133

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-31992/2-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3,4,7,8,9-HpCDF	1000	1060		pg/L		106	83 - 130
OCDD	2000	2080		pg/L		104	80 - 132
OCDF	2000	1960		pg/L		98	72 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*86*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*89*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*89*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*91*		*40 - 135*
13C-2,3,7,8-TCDF	*88*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*90*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*91*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*87*		*40 - 135*
13C-OCDD	*93*		*40 - 135*

Lab Sample ID: MB 320-32264/1-A
Matrix: Solid
Analysis Batch: 33441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32264

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.012	U	1.0	0.012	pg/g		12/19/13 15:47	01/07/14 16:43	1
2,3,7,8-TCDF	0.0252	J q	1.0	0.0079	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,7,8-PeCDD	0.015	U	5.0	0.015	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,7,8-PeCDF	0.013	U	5.0	0.013	pg/g		12/19/13 15:47	01/07/14 16:43	1
2,3,4,7,8-PeCDF	0.0643	J	5.0	0.014	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,7,8-HxCDD	0.0263	J q	5.0	0.013	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,6,7,8-HxCDD	0.0463	J	5.0	0.0089	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,7,8,9-HxCDD	0.0400	J q	5.0	0.0092	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,7,8-HxCDF	0.391	J	5.0	0.013	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,6,7,8-HxCDF	0.0789	J q	5.0	0.0098	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,7,8,9-HxCDF	0.0384	J q	5.0	0.013	pg/g		12/19/13 15:47	01/07/14 16:43	1
2,3,4,6,7,8-HxCDF	0.0417	J	5.0	0.011	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,6,7,8-HpCDD	0.116	J	5.0	0.016	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,6,7,8-HpCDF	1.04	J	5.0	0.019	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,7,8,9-HpCDF	0.0799	J	5.0	0.022	pg/g		12/19/13 15:47	01/07/14 16:43	1
OCDD	1.03	J	10	0.024	pg/g		12/19/13 15:47	01/07/14 16:43	1
OCDF	1.23	J	10	0.025	pg/g		12/19/13 15:47	01/07/14 16:43	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*96*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-1,2,3,7,8-PeCDD	*95*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-1,2,3,7,8-PeCDF	*94*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-1,2,3,6,7,8-HxCDD	*94*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-2,3,7,8-TCDF	*90*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*104*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*95*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-1,2,3,4,7,8-HxCDF	*87*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*
13C-OCDD	*99*		*40 - 135*	*12/19/13 15:47*	*01/07/14 16:43*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32264/2-A
Matrix: Solid
Analysis Batch: 33441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	19.0		pg/g		95	77 - 130
2,3,7,8-TCDF	20.0	19.4		pg/g		97	79 - 137
1,2,3,7,8-PeCDD	100	99.3		pg/g		99	79 - 134
1,2,3,7,8-PeCDF	100	96.9		pg/g		97	81 - 134
2,3,4,7,8-PeCDF	100	97.8		pg/g		98	76 - 132
1,2,3,4,7,8-HxCDD	100	94.5		pg/g		94	65 - 144
1,2,3,6,7,8-HxCDD	100	98.0		pg/g		98	73 - 147
1,2,3,7,8,9-HxCDD	100	103		pg/g		103	80 - 143
1,2,3,4,7,8-HxCDF	100	103		pg/g		103	72 - 140
1,2,3,6,7,8-HxCDF	100	100		pg/g		100	63 - 152
1,2,3,7,8,9-HxCDF	100	102		pg/g		102	72 - 152
2,3,4,6,7,8-HxCDF	100	100		pg/g		100	72 - 151
1,2,3,4,6,7,8-HpCDD	100	100		pg/g		100	86 - 134
1,2,3,4,6,7,8-HpCDF	100	100		pg/g		100	81 - 137
1,2,3,4,7,8,9-HpCDF	100	97.9		pg/g		98	79 - 139
OCDD	200	212		pg/g		106	80 - 137
OCDF	200	200		pg/g		100	75 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*98*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*95*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*95*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*95*		*40 - 135*
13C-2,3,7,8-TCDF	*91*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*98*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*94*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*89*		*40 - 135*
13C-OCDD	*95*		*40 - 135*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-89691/1-A
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13	U	19	13	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Barium	0.24	U	4.8	0.24	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Beryllium	0.16	U	0.48	0.16	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Cadmium	0.095	U	0.48	0.095	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Calcium	13	U	240	13	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Chromium	0.29	U	0.95	0.29	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Cobalt	0.89	U	4.8	0.89	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Copper	0.69	U	2.4	0.69	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Iron	2.8	U	9.5	2.8	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Magnesium	7.9	U	95	7.9	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Manganese	0.15	U	0.95	0.15	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Nickel	0.21	U	3.8	0.21	mg/Kg		12/04/13 10:50	12/31/13 19:42	1

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

Lab Sample ID: MB 160-89691/1-A
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	320	U	480	320	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Lead	0.16	U	0.95	0.16	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Antimony	0.61	U	0.95	0.61	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Silver	0.22	U	0.95	0.22	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Selenium	0.27	U	1.4	0.27	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Sodium	45	U	95	45	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Titanium	0.60	U	1.9	0.60	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Vanadium	1.2	U	4.8	1.2	mg/Kg		12/04/13 10:50	12/31/13 19:42	1
Zinc	1.9	U	4.8	1.9	mg/Kg		12/04/13 10:50	12/31/13 19:42	1

Lab Sample ID: LCS 160-89691/2-A
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9780	7210		mg/Kg		74	44 - 155
Barium	325	290		mg/Kg		89	74 - 125
Beryllium	92.1	80.5		mg/Kg		87	74 - 126
Cadmium	110	93.9		mg/Kg		85	73 - 139
Calcium	6700	5690		mg/Kg		85	74 - 125
Chromium	93.4	83.0		mg/Kg		89	69 - 130
Cobalt	133	121		mg/Kg		91	74 - 125
Copper	74.7	64.7		mg/Kg		87	73 - 126
Iron	13100	10900		mg/Kg		84	32 - 167
Magnesium	2980	2420		mg/Kg		81	66 - 134
Manganese	443	376		mg/Kg		85	77 - 124
Nickel	109	98.2		mg/Kg		90	72 - 126
Potassium	2770	2200		mg/Kg		79	61 - 138
Lead	152	134		mg/Kg		88	73 - 126
Antimony	121	53.4		mg/Kg		44	21 - 251
Silver	51.9	46.0		mg/Kg		89	66 - 133
Selenium	207	177		mg/Kg		85	69 - 131
Sodium	724	599		mg/Kg		83	56 - 144
Titanium	193	193		mg/Kg		100	29 - 171
Vanadium	110	92.1		mg/Kg		84	67 - 132
Zinc	299	259		mg/Kg		87	71 - 128

Lab Sample ID: 680-96525-7 MS
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: NE-B-1_SUB
Prep Type: Total/NA
Prep Batch: 89691

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	11000		1030	17000	4	mg/Kg	☼	556	75 - 125
Antimony	3.4	U	51.7	16.9	F1	mg/Kg	☼	33	75 - 125
Barium	180		103	350	F1	mg/Kg	☼	165	75 - 125
Beryllium	0.90	U	103	94.7		mg/Kg	☼	92	75 - 125
Cadmium	0.53	U	103	99.3		mg/Kg	☼	96	75 - 125
Calcium	25000		1030	29800	4	mg/Kg	☼	435	75 - 125
Chromium	12		103	112		mg/Kg	☼	96	75 - 125

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

Lab Sample ID: 680-96525-7 MS
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: NE-B-1_SUB
Prep Type: Total/NA
Prep Batch: 89691

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	8.9	J	103	110		mg/Kg	☼	97	75 - 125
Copper	17		103	120		mg/Kg	☼	99	75 - 125
Iron	15000		1030	17500	4	mg/Kg	☼	245	75 - 125
Lead	10		103	112		mg/Kg	☼	98	75 - 125
Magnesium	9900		1030	11800	4	mg/Kg	☼	180	75 - 125
Manganese	350		103	504	F1	mg/Kg	☼	151	75 - 125
Nickel	17	J	103	119		mg/Kg	☼	99	75 - 125
Potassium	2100	J	1030	3780	F1	mg/Kg	☼	161	75 - 125
Selenium	1.5	U	51.7	45.6		mg/Kg	☼	88	75 - 125
Silver	1.2	U	20.7	19.8		mg/Kg	☼	96	75 - 125
Sodium	960		1030	2560	F1	mg/Kg	☼	155	75 - 125
Titanium	930		103	1060	4	mg/Kg	☼	125	75 - 125
Vanadium	36		103	132		mg/Kg	☼	93	75 - 125
Zinc	39		103	141		mg/Kg	☼	98	75 - 125

Lab Sample ID: 680-96525-7 MSD
Matrix: Solid
Analysis Batch: 95650

Client Sample ID: NE-B-1_SUB
Prep Type: Total/NA
Prep Batch: 89691

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	11000		1040	17800	4	mg/Kg	☼	638	75 - 125	5	30
Antimony	3.4	U	52.0	17.7	F1	mg/Kg	☼	34	75 - 125	4	30
Barium	180		104	398	F1	mg/Kg	☼	211	75 - 125	13	30
Beryllium	0.90	U	104	95.8		mg/Kg	☼	92	75 - 125	1	30
Cadmium	0.53	U	104	99.1		mg/Kg	☼	95	75 - 125	0	30
Calcium	25000		1040	28600	4	mg/Kg	☼	321	75 - 125	4	30
Chromium	12		104	112		mg/Kg	☼	96	75 - 125	0	30
Cobalt	8.9	J	104	109		mg/Kg	☼	96	75 - 125	0	30
Copper	17		104	119		mg/Kg	☼	98	75 - 125	0	30
Iron	15000		1040	17800	4	mg/Kg	☼	275	75 - 125	2	30
Lead	10		104	113		mg/Kg	☼	99	75 - 125	1	30
Magnesium	9900		1040	12600	4	mg/Kg	☼	258	75 - 125	7	30
Manganese	350		104	583	F1	mg/Kg	☼	227	75 - 125	15	30
Nickel	17	J	104	120		mg/Kg	☼	99	75 - 125	0	30
Potassium	2100	J	1040	4100	F1	mg/Kg	☼	190	75 - 125	8	30
Selenium	1.5	U	52.0	46.2		mg/Kg	☼	89	75 - 125	1	30
Silver	1.2	U	20.8	19.7		mg/Kg	☼	95	75 - 125	0	30
Sodium	960		1040	2910	F1	mg/Kg	☼	188	75 - 125	13	30
Titanium	930		104	1080	4	mg/Kg	☼	145	75 - 125	2	30
Vanadium	36		104	133		mg/Kg	☼	94	75 - 125	1	30
Zinc	39		104	142		mg/Kg	☼	99	75 - 125	1	30

Lab Sample ID: MB 160-94327/1-A
Matrix: Water
Analysis Batch: 94972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	80	U	200	80	ug/L		12/23/13 15:26	12/26/13 22:49	1
Barium	4.0	U	50	4.0	ug/L		12/23/13 15:26	12/26/13 22:49	1

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

Lab Sample ID: MB 160-94327/1-A
Matrix: Water
Analysis Batch: 94972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.61	U	5.0	0.61	ug/L		12/23/13 15:26	12/26/13 22:49	1
Cadmium	0.91	U	5.0	0.91	ug/L		12/23/13 15:26	12/26/13 22:49	1
Calcium	110	U	1000	110	ug/L		12/23/13 15:26	12/26/13 22:49	1
Chromium	3.1	U ^	10	3.1	ug/L		12/23/13 15:26	12/26/13 22:49	1
Cobalt	4.9	U	50	4.9	ug/L		12/23/13 15:26	12/26/13 22:49	1
Copper	4.6	U	25	4.6	ug/L		12/23/13 15:26	12/26/13 22:49	1
Iron	28	U	100	28	ug/L		12/23/13 15:26	12/26/13 22:49	1
Magnesium	130	U	1000	130	ug/L		12/23/13 15:26	12/26/13 22:49	1
Manganese	3.3	U	15	3.3	ug/L		12/23/13 15:26	12/26/13 22:49	1
Nickel	13	U	40	13	ug/L		12/23/13 15:26	12/26/13 22:49	1
Potassium	1700	U	5000	1700	ug/L		12/23/13 15:26	12/26/13 22:49	1
Lead	1.5	U	10	1.5	ug/L		12/23/13 15:26	12/26/13 22:49	1
Antimony	4.0	U	10	4.0	ug/L		12/23/13 15:26	12/26/13 22:49	1
Silver	6.0	U ^	10	6.0	ug/L		12/23/13 15:26	12/26/13 22:49	1
Selenium	2.7	U	15	2.7	ug/L		12/23/13 15:26	12/26/13 22:49	1
Sodium	320	U	1000	320	ug/L		12/23/13 15:26	12/26/13 22:49	1
Titanium	2.4	U	20	2.4	ug/L		12/23/13 15:26	12/26/13 22:49	1
Vanadium	4.1	U	50	4.1	ug/L		12/23/13 15:26	12/26/13 22:49	1
Zinc	5.2	U	20	5.2	ug/L		12/23/13 15:26	12/26/13 22:49	1

Lab Sample ID: LCS 160-94327/2-A
Matrix: Water
Analysis Batch: 94972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	10300		ug/L		103	80 - 120
Barium	1000	1050		ug/L		105	80 - 120
Beryllium	1000	1060		ug/L		106	80 - 120
Cadmium	1000	1090		ug/L		109	80 - 120
Calcium	10000	11400		ug/L		114	80 - 120
Chromium	1000	1120	^	ug/L		112	80 - 120
Cobalt	1000	1140		ug/L		114	80 - 120
Copper	1000	1120		ug/L		112	80 - 120
Iron	10000	10500		ug/L		105	80 - 120
Magnesium	10000	10100		ug/L		101	80 - 120
Manganese	1000	1070		ug/L		107	80 - 120
Nickel	1000	1150		ug/L		115	80 - 120
Potassium	10000	10900		ug/L		109	80 - 120
Lead	1000	1150		ug/L		115	80 - 120
Antimony	500	537		ug/L		107	80 - 120
Silver	200	224	^	ug/L		112	80 - 120
Selenium	500	543		ug/L		109	80 - 120
Sodium	10000	11300		ug/L		113	80 - 120
Titanium	1000	1030		ug/L		103	80 - 120
Vanadium	1000	1030		ug/L		103	80 - 120
Zinc	1000	1110		ug/L		111	80 - 120

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

Lab Sample ID: 680-96525-9 MS
Matrix: Water
Analysis Batch: 94972

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 94327

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	80	U	10000	10400		ug/L		104	75 - 125
Barium	4.0	U	1000	1060		ug/L		106	75 - 125
Beryllium	0.61	U	1000	1050		ug/L		105	75 - 125
Cadmium	0.91	U	1000	1070		ug/L		107	75 - 125
Calcium	110	U	10000	11000		ug/L		110	75 - 125
Chromium	3.1	U ^	1000	1060	^	ug/L		106	75 - 125
Cobalt	4.9	U	1000	1120		ug/L		112	75 - 125
Copper	4.6	U	1000	1100		ug/L		110	75 - 125
Iron	28	U	10000	10300		ug/L		103	75 - 125
Magnesium	130	U	10000	9860		ug/L		99	75 - 125
Manganese	3.3	U	1000	1040		ug/L		104	75 - 125
Nickel	13	U	1000	1130		ug/L		113	75 - 125
Potassium	1700	U	10000	11000		ug/L		110	75 - 125
Lead	1.5	U	1000	1120		ug/L		112	75 - 125
Antimony	4.0	U	500	537		ug/L		107	75 - 125
Silver	6.0	U ^	200	211	^	ug/L		106	75 - 125
Selenium	2.7	U	500	539		ug/L		108	75 - 125
Sodium	320	U	10000	11500		ug/L		115	75 - 125
Titanium	2.4	U	1000	1030		ug/L		103	75 - 125
Vanadium	4.1	U	1000	1010		ug/L		101	75 - 125
Zinc	5.2	U	1000	1080		ug/L		108	75 - 125

Lab Sample ID: 680-96525-9 MSD
Matrix: Water
Analysis Batch: 94972

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 94327

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	80	U	10000	10700		ug/L		107	75 - 125	3	20
Barium	4.0	U	1000	1080		ug/L		108	75 - 125	2	20
Beryllium	0.61	U	1000	1060		ug/L		106	75 - 125	1	20
Cadmium	0.91	U	1000	1050		ug/L		105	75 - 125	2	20
Calcium	110	U	10000	10900		ug/L		109	75 - 125	2	20
Chromium	3.1	U ^	1000	1070	^	ug/L		107	75 - 125	1	20
Cobalt	4.9	U	1000	1100		ug/L		110	75 - 125	2	20
Copper	4.6	U	1000	1080		ug/L		108	75 - 125	2	20
Iron	28	U	10000	10400		ug/L		104	75 - 125	0	20
Magnesium	130	U	10000	9880		ug/L		99	75 - 125	0	20
Manganese	3.3	U	1000	1050		ug/L		105	75 - 125	1	20
Nickel	13	U	1000	1110		ug/L		111	75 - 125	2	20
Potassium	1700	U	10000	11600		ug/L		116	75 - 125	5	20
Lead	1.5	U	1000	1100		ug/L		110	75 - 125	2	20
Antimony	4.0	U	500	523		ug/L		105	75 - 125	3	20
Silver	6.0	U ^	200	213	^	ug/L		107	75 - 125	1	20
Selenium	2.7	U	500	523		ug/L		105	75 - 125	3	20
Sodium	320	U	10000	12000		ug/L		120	75 - 125	5	20
Titanium	2.4	U	1000	1040		ug/L		104	75 - 125	1	20
Vanadium	4.1	U	1000	1010		ug/L		101	75 - 125	1	20
Zinc	5.2	U	1000	1060		ug/L		106	75 - 125	2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-89693/1-A
Matrix: Solid
Analysis Batch: 94963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.25	U	0.95	0.25	mg/Kg		12/04/13 11:01	12/26/13 20:22	2
Niobium	0.36	U	2.4	0.36	mg/Kg		12/04/13 11:01	12/26/13 20:22	2
Thallium	0.14	U	0.48	0.14	mg/Kg		12/04/13 11:01	12/26/13 20:22	2
Uranium	0.019	U	0.095	0.019	mg/Kg		12/04/13 11:01	12/26/13 20:22	2

Lab Sample ID: LCS 160-89693/13-A
Matrix: Solid
Analysis Batch: 94963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	45.8	46.8	E	mg/Kg		102	80 - 120
Uranium	91.5	95.5		mg/Kg		104	80 - 120

Lab Sample ID: LCS 160-89693/2-A
Matrix: Solid
Analysis Batch: 94963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	109	112		mg/Kg		103	70 - 131
Thallium	171	189		mg/Kg		110	68 - 131

Lab Sample ID: 680-96525-7 MS
Matrix: Solid
Analysis Batch: 94963

Client Sample ID: NE-B-1_SUB
Prep Type: Total/NA
Prep Batch: 89693

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.2	J	103	111		mg/Kg	☼	103	75 - 125
Niobium	2.0	U	51.7	15.1	F	mg/Kg	☼	29	75 - 125
Thallium	0.81	U	20.7	21.6		mg/Kg	☼	104	75 - 125
Uranium	0.95		103	110		mg/Kg	☼	106	75 - 125

Lab Sample ID: 680-96525-7 MSD
Matrix: Solid
Analysis Batch: 94963

Client Sample ID: NE-B-1_SUB
Prep Type: Total/NA
Prep Batch: 89693

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.2	J	104	113		mg/Kg	☼	105	75 - 125	2	30
Niobium	2.0	U	52.0	16.2	F	mg/Kg	☼	31	75 - 125	7	30
Thallium	0.81	U	20.8	22.3		mg/Kg	☼	107	75 - 125	3	30
Uranium	0.95		104	111		mg/Kg	☼	106	75 - 125	1	30

Lab Sample ID: MB 160-94768/1-A
Matrix: Water
Analysis Batch: 95491

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		12/26/13 15:25	12/30/13 18:52	1
Niobium	2.2	U	25	2.2	ug/L		12/26/13 15:25	12/30/13 18:52	1
Thallium	0.55	U ^	2.0	0.55	ug/L		12/26/13 15:25	12/30/13 18:52	1

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

Lab Sample ID: MB 160-94768/1-A
Matrix: Water
Analysis Batch: 95491

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.23	U	1.0	0.23	ug/L		12/26/13 15:25	12/30/13 18:52	1

Lab Sample ID: LCS 160-94768/2-A
Matrix: Water
Analysis Batch: 95491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1100		ug/L		110	80 - 120
Niobium	500	503	E	ug/L		101	80 - 120
Thallium	200	227	^	ug/L		113	80 - 120
Uranium	1000	1050		ug/L		105	80 - 120

Lab Sample ID: 680-96525-9 MS
Matrix: Water
Analysis Batch: 95491

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 94768

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.7	J	1000	1020		ug/L		102	75 - 125
Niobium	2.2	U	500	313	E F	ug/L		63	75 - 125
Thallium	1.1	J ^	200	221	^	ug/L		110	75 - 125
Uranium	0.23	J	1000	1030		ug/L		103	75 - 125

Lab Sample ID: 680-96525-9 MSD
Matrix: Water
Analysis Batch: 95491

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 94768

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.7	J	1000	1050		ug/L		104	75 - 125	2	20
Niobium	2.2	U	500	416	E F	ug/L		83	75 - 125	28	20
Thallium	1.1	J ^	200	230	^	ug/L		114	75 - 125	4	20
Uranium	0.23	J	1000	1050		ug/L		105	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-89051/1-A
Matrix: Water
Analysis Batch: 89187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		12/03/13 07:05	12/03/13 09:15	1

Lab Sample ID: LCS 160-89051/2-A
Matrix: Water
Analysis Batch: 89187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.04		ug/L		101	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 160-88831/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 89215 — **Prep Batch: 88831**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg		12/02/13 13:49	12/03/13 11:50	1

Lab Sample ID: LCS 160-88831/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 89215 — **Prep Batch: 88831**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	16.3	17.4		mg/Kg		107	51 - 148

Lab Sample ID: 680-96525-7 MS — **Client Sample ID: NE-B-1_SUB**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 89215 — **Prep Batch: 88831**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.011	J	0.915	0.852		mg/Kg	☼	92	80 - 120

Lab Sample ID: 680-96525-7 MSD — **Client Sample ID: NE-B-1_SUB**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 89215 — **Prep Batch: 88831**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.011	J	0.850	0.764		mg/Kg	☼	89	80 - 120	11	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-91127/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91127

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0040	U	0.020	0.0040	mg/L			11/26/13 12:00	1
Chloride	0.020	U	0.20	0.020	mg/L			11/26/13 12:00	1
Sulfate	0.050	U	0.50	0.050	mg/L			11/26/13 12:00	1

Lab Sample ID: LCS 160-91127/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.400	0.421		mg/L		105	90 - 110
Chloride	2.00	2.02		mg/L		101	90 - 110
Sulfate	8.00	7.81		mg/L		98	90 - 110

Lab Sample ID: 680-96525-9 MS — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91127

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.19		0.400	0.608		mg/L		105	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-96525-9 MS
Matrix: Water
Analysis Batch: 91127

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	0.020	U	2.00	1.86		mg/L		93	90 - 110
Sulfate	0.050	U	4.00	3.79		mg/L		95	90 - 110

Lab Sample ID: 680-96525-9 MSD
Matrix: Water
Analysis Batch: 91127

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.19		0.400	0.603		mg/L		104	90 - 110	1	20
Chloride	0.020	U	2.00	1.86		mg/L		93	90 - 110	0	20
Sulfate	0.050	U	4.00	3.83		mg/L		96	90 - 110	1	20

Lab Sample ID: MB 160-92856/1-A
Matrix: Solid
Analysis Batch: 94320

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.040	U	0.20	0.040	mg/Kg			12/18/13 16:13	1
Chloride	0.20	U	2.0	0.20	mg/Kg			12/18/13 16:13	1
Sulfate	0.50	U	5.0	0.50	mg/Kg			12/18/13 16:13	1

Lab Sample ID: LCS 160-92856/2-A
Matrix: Solid
Analysis Batch: 94320

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.00	3.92		mg/Kg		98	90 - 110
Chloride	20.0	19.1		mg/Kg		95	90 - 110
Sulfate	80.0	75.5		mg/Kg		94	90 - 110

Lab Sample ID: 680-96525-7 MS
Matrix: Solid
Analysis Batch: 94320

Client Sample ID: NE-B-1_SUB
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	9.3		4.47	14.1		mg/Kg	☼	107	90 - 110

Lab Sample ID: 680-96525-7 MSD
Matrix: Solid
Analysis Batch: 94320

Client Sample ID: NE-B-1_SUB
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	9.3		4.40	14.1		mg/Kg	☼	110	90 - 110	0	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 680-96525-7 MS
Matrix: Solid
Analysis Batch: 94320

Client Sample ID: NE-B-1_SUB
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	690		894	1480	F	mg/Kg	☼	89	90 - 110

Lab Sample ID: 680-96525-7 MSD
Matrix: Solid
Analysis Batch: 94320

Client Sample ID: NE-B-1_SUB
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate - DL	690		881	1500		mg/Kg	☼	92	90 - 110	1	20

Method: 300.0 - Anions, Ion Chromatography - DL2

Lab Sample ID: 680-96525-7 MS
Matrix: Solid
Analysis Batch: 94320

Client Sample ID: NE-B-1_SUB
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL2	3700		4470	8880	F	mg/Kg	☼	117	90 - 110

Lab Sample ID: 680-96525-7 MSD
Matrix: Solid
Analysis Batch: 94320

Client Sample ID: NE-B-1_SUB
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride - DL2	3700		4400	8490		mg/Kg	☼	110	90 - 110	5	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-90393/1-A
Matrix: Solid
Analysis Batch: 90524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90393

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	2.471	U	10.0	4.17	pCi/g		12/09/13 08:58	12/09/13 20:41	1
Gross Beta	-0.05760	U	10.0	2.15	pCi/g		12/09/13 08:58	12/09/13 20:41	1

Lab Sample ID: LCS 160-90393/2-A
Matrix: Solid
Analysis Batch: 90524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90393

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	27.1	26.72		6.43	4.57	pCi/g	99	44 - 140
Gross Beta	26.8	23.89		3.81	2.70	pCi/g	89	38 - 130

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Lab Sample ID: MB 160-95023/1-A
Matrix: Water
Analysis Batch: 95463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95023

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	0.4357	U	3.00	1.40	pCi/L		12/27/13 12:05	12/30/13 08:44	1
Gross Beta	0.1862	U	4.00	0.917	pCi/L		12/27/13 12:05	12/30/13 08:44	1

Lab Sample ID: LCS 160-95023/2-A
Matrix: Water
Analysis Batch: 95463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95023

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	53.8	53.41		7.57	1.68	pCi/L	99	75 - 125

Lab Sample ID: LCSB 160-95023/3-A
Matrix: Water
Analysis Batch: 95463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95023

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	98.3	100.9		10.6	1.02	pCi/L	103	75 - 125

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-88188/1-A
Matrix: Water
Analysis Batch: 93503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88188

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	5.027	U		28.2	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Bismuth-212	-9.462	U		128	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Bismuth-214	24.90			23.2	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Bismuth-210M	2.242	U		11.8	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Cesium-134	-0.3885	U		10.8	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Cesium-137	2.230	U		8.68	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Cobalt-57	0.5970	U		4.93	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Cobalt-60	1.638	U		4.98	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Lead-212	-1.650	U		19.4	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Lead-214	-1.400	U		23.8	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Potassium-40	11.99	U		171	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Protactinium-231	0.4015	U		206	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Protactinium-234	-9.714	U		33.7	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Radium-224	16.51	U		149	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Thallium-208	-3.990	U		12.5	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Thorium-227	0.2235	U		61.3	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Thorium-231	14.73	U		49.3	pCi/L		11/26/13 15:20	12/19/13 19:46	1
Thorium-234	-107.8	U		194	pCi/L		11/26/13 15:20	12/19/13 19:46	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-88188/2-A
Matrix: Water
Analysis Batch: 93506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88188

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	44000	42340		4250	118	pCi/L	96	90 - 111
Cobalt-60	29800	28250		2800	62.8	pCi/L	95	89 - 110
Americium-241	139000	133100		15400	417	pCi/L	96	90 - 111

Lab Sample ID: 680-96525-9 DU
Matrix: Water
Analysis Batch: 93506

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 88188

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Actinium 228	6.61	U	-1.577	U	9.63	39.5	pCi/L	0.24	1
Bismuth-212	9.42	U	0.2548	U	64.4	122	pCi/L	0.06	1
Bismuth-214	-8.31	U	-14.25	U	674	25.7	pCi/L	0.01	1
Bismuth-210M	5.26	U	-2.807	U	7.55	13.1	pCi/L	0.52	1
Cesium-134	0.697	U	2.621	U	9.36	9.49	pCi/L	0.14	1
Cesium-137	3.06	U	0.05329	U	5.98	11.2	pCi/L	0.24	1
Cobalt-57	-0.742	U	2.433	U	5.08	5.95	pCi/L	0.35	1
Cobalt-60	-1.49	U	1.759	U	7.61	13.9	pCi/L	0.21	1
Lead-212	-0.426	U	2.547	U	9.85	18.4	pCi/L	0.13	1
Lead-214	-9.01	U	-7.525	U	82.6	23.1	pCi/L	0.01	1
Potassium-40	-44.7	U	15.87	U	70.0	154	pCi/L	0.24	1
Protactinium-231	14.3	U	63.83	U	76.4	321	pCi/L	0.49	1
Protactinium-234	3.03	U	0.3056	U	12.3	22.4	pCi/L	0.11	1
Radium-224	-24.8	U	1.892	U	84.3	152	pCi/L	0.13	1
Thallium-208	2.38	U	5.340	U	6.65	10.4	pCi/L	0.28	1
Thorium-227	4.10	U	-2.546	U	28.0	50.1	pCi/L	0.12	1
Thorium-231	5.52	U	12.43	U	26.1	54.3	pCi/L	0.11	1
Thorium-234	44.3	U	-26.34	U	152	212	pCi/L	0.27	1

Lab Sample ID: MB 160-91490/1-A
Matrix: Solid
Analysis Batch: 95979

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91490

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	-0.06018	U		0.328	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Bismuth-212	0.1353	U		0.815	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Bismuth-214	0.02653	U		0.192	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Bismuth-210M	0.01799	U		0.0683	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Cesium-134	0.006369	U		0.127	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Cesium-137	0.01516	U		0.0660	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Cobalt-57	0.004503	U		0.0349	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Cobalt-60	0.01461	U		0.0748	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Lead-212	-0.01445	U		0.130	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Lead-214	0.1168	U		0.137	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Potassium-40	-0.3478	U		1.39	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Protactinium-231	-0.02620	U		1.52	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Protactinium-234	-0.01549	U		0.178	pCi/g		12/12/13 15:18	01/03/14 15:43	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-91490/1-A
Matrix: Solid
Analysis Batch: 95979

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91490

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-224	0.05548	U		1.11	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Thallium-208	0.03595	U		0.0663	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Thorium-227	0.01504	U		0.402	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Thorium-234	-0.4687	U		1.59	pCi/g		12/12/13 15:18	01/03/14 15:43	1

Lab Sample ID: LCS 160-91490/2-A
Matrix: Solid
Analysis Batch: 95982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91490

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	31.4	30.63		3.27	0.335	pCi/g	98	87 - 120
Cobalt-60	23.6	22.74		2.33	0.173	pCi/g	96	87 - 115
Americium-241	97.5	95.38		10.0	1.25	pCi/g	98	87 - 116

Lab Sample ID: 680-96525-4 DU
Matrix: Solid
Analysis Batch: 95979

Client Sample ID: NE-B-3_SUB
Prep Type: Total/NA
Prep Batch: 91490

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Actinium 228	1.69		1.873		0.342	0.225	pCi/g	0.26	1
Bismuth-212	1.17		2.118		0.757	0.654	pCi/g	0.62	1
Bismuth-214	0.972		1.075		0.223	0.160	pCi/g	0.23	1
Bismuth-210M	-0.0442	U	0.02494	U	0.0498	0.106	pCi/g	0.52	1
Cesium-134	0.00356	U	0.03859	U	0.0250	0.0962	pCi/g	0.63	1
Cesium-137	-0.0106	U	0.007337	U	0.0483	0.0859	pCi/g	0.17	1
Cobalt-57	0.00619	U	0.02260	U	0.0267	0.0406	pCi/g	0.43	1
Cobalt-60	0.000	U	0.01340	U	0.0485	0.0872	pCi/g	0.17	1
Lead-212	1.79		1.674		0.270	0.133	pCi/g	0.21	1
Lead-214	1.18		1.272		0.223	0.187	pCi/g	0.21	1
Potassium-40	26.0		23.15		3.13	1.01	pCi/g	0.43	1
Protactinium-231	0.647	U	0.9454	U	0.441	2.56	pCi/g	0.35	1
Protactinium-234	0.0768	U	0.03636	U	0.0511	0.339	pCi/g	0.18	1
Radium-224	2.20		2.020		1.07	1.59	pCi/g	0.07	1
Thallium-208	0.623		0.6014		0.126	0.0941	pCi/g	0.09	1
Thorium-227	0.0674	U	-0.07308	U	0.268	1.71	pCi/g	0.32	1
Thorium-234	1.91	U	1.230	U	1.34	2.27	pCi/g	0.22	1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-88182/1-A
Matrix: Water
Analysis Batch: 93190

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88182

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.06470	U	1.00	0.103	pCi/L		11/26/13 14:54	12/18/13 09:27	1

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-88182/1-A
Matrix: Water
Analysis Batch: 93190

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88182

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110	11/26/13 14:54	12/18/13 09:27	1

Lab Sample ID: LCS 160-88182/2-A
Matrix: Water
Analysis Batch: 93190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88182

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.2	10.21		1.07		0.121	pCi/L	91	68 - 137		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	101		40 - 110

Lab Sample ID: 680-96525-9 DU
Matrix: Water
Analysis Batch: 93190

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 88182

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-226	0.0948	U		0.06353	U	0.0828		0.138	pCi/L			0.19	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	102		40 - 110

Lab Sample ID: MB 160-89209/1-A
Matrix: Solid
Analysis Batch: 94799

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89209

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.07217		1.00	0.0611	pCi/g		12/03/13 12:50	12/26/13 16:53	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110	12/03/13 12:50	12/26/13 16:53	1

Lab Sample ID: LCS 160-89209/2-A
Matrix: Solid
Analysis Batch: 94799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89209

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.2	9.823		0.974		0.0778	pCi/g	87	65 - 140		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	104		40 - 110

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 680-96525-3 DU
Matrix: Solid
Analysis Batch: 94799

Client Sample ID: NE-B-3_SS
Prep Type: Total/NA
Prep Batch: 89209

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-226	1.00			1.111		0.173		0.0720	pCi/g			0.31	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*101*		*40 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-89212/1-A
Matrix: Solid
Analysis Batch: 93509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89212

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	-0.05495	U	1.00	0.282	pCi/g		12/03/13 13:00	12/19/13 11:42	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*40 - 110*	*12/03/13 13:00*	*12/19/13 11:42*	*1*
Y Carrier	*90.8*		*40 - 110*	*12/03/13 13:00*	*12/19/13 11:42*	*1*

Lab Sample ID: LCS 160-89212/2-A
Matrix: Solid
Analysis Batch: 93509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89212

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-228			4.05	3.371		0.488		0.285	pCi/g	83	61 - 139		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*104*		*40 - 110*
Y Carrier	*88.6*		*40 - 110*

Lab Sample ID: 680-96525-3 DU
Matrix: Solid
Analysis Batch: 93510

Client Sample ID: NE-B-3_SS
Prep Type: Total/NA
Prep Batch: 89212

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-228	1.51			1.114		0.281		0.302	pCi/g			0.58	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*101*		*40 - 110*
Y Carrier	*88.6*		*40 - 110*

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-92634/1-A
Matrix: Water
Analysis Batch: 93855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92634

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.08674	U	1.00	0.362	pCi/L		12/17/13 14:46	12/20/13 12:27	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.8*		*40 - 110*	*12/17/13 14:46*	*12/20/13 12:27*	*1*
Y Carrier	*91.6*		*40 - 110*	*12/17/13 14:46*	*12/20/13 12:27*	*1*

Lab Sample ID: LCS 160-92634/2-A
Matrix: Water
Analysis Batch: 93855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92634

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-228	4.05	4.340		0.633	0.395	pCi/L	107	56 - 140

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*101*		*40 - 110*
Y Carrier	*90.1*		*40 - 110*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-94985/1-A
Matrix: Solid
Analysis Batch: 98289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94985

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.06170	U	1.00	0.0712	pCi/g		12/27/13 11:05	01/14/14 13:33	1
Thorium-230	0.03369		1.00	0.0282	pCi/g		12/27/13 11:05	01/14/14 13:33	1
Thorium-232	0.0008447	U	1.00	0.0333	pCi/g		12/27/13 11:05	01/14/14 13:33	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*83.9*		*30 - 110*	*12/27/13 11:05*	*01/14/14 13:33*	*1*

Lab Sample ID: LCS 160-94985/2-A
Matrix: Solid
Analysis Batch: 98290

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94985

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Thorium-230	24.5	24.66		2.29	0.0525	pCi/g	101	81 - 118

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*87.8*		*30 - 110*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: MB 160-96565/1-A
Matrix: Water
Analysis Batch: 97480

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96565

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	-0.01944	U	1.00	0.210	pCi/L		01/07/14 11:06	01/10/14 20:51	1
Thorium-230	0.1859		1.00	0.169	pCi/L		01/07/14 11:06	01/10/14 20:51	1
Thorium-232	-0.01806	U	1.00	0.163	pCi/L		01/07/14 11:06	01/10/14 20:51	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*89.2*		*30 - 110*	*01/07/14 11:06*	*01/10/14 20:51*	*1*

Lab Sample ID: LCS 160-96565/2-A
Matrix: Water
Analysis Batch: 97490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96565

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			8.64	10.39		1.30		0.144	pCi/L	120	81 - 125		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*85.6*		*30 - 110*

Lab Sample ID: LCSD 160-96565/3-A
Matrix: Water
Analysis Batch: 97698

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96565

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Thorium-230			8.64	7.311	*	0.925		0.0743	pCi/L	85	81 - 125	1.38	1

Tracer	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Thorium-229	*114*	*X*	*30 - 110*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-95022/1-A
Matrix: Solid
Analysis Batch: 97931

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95022

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.01044	U	1.00	0.0313	pCi/g		12/27/13 11:05	01/13/14 21:11	1
Uranium-238	-0.002093	U	1.00	0.0405	pCi/g		12/27/13 11:05	01/13/14 21:11	1
Uranium-233/234	0.03356		1.00	0.0252	pCi/g		12/27/13 11:05	01/13/14 21:11	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*85.0*		*30 - 110*	*12/27/13 11:05*	*01/13/14 21:11*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-95022/2-A
Matrix: Solid
Analysis Batch: 97932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95022

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.301	0.4132		0.186	0.0964	pCi/g	137	
Uranium-238	6.46	6.165		0.814	0.0479	pCi/g	95	82 - 122
Uranium-233/234	6.32	6.145		0.812	0.0480	pCi/g	97	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*88.7*		*30 - 110*

Lab Sample ID: MB 160-96566/1-A
Matrix: Water
Analysis Batch: 97503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96566

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	-0.01388	U	1.00	0.192	pCi/L		01/07/14 11:06	01/10/14 20:53	1
U-238	0.01299	U	1.00	0.169	pCi/L		01/07/14 11:06	01/10/14 20:53	1
Uranium-233/234	0.04834	U	1.00	0.155	pCi/L		01/07/14 11:06	01/10/14 20:53	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*61.2*		*30 - 110*	*01/07/14 11:06*	*01/10/14 20:53*	*1*

Lab Sample ID: LCS 160-96566/2-A
Matrix: Water
Analysis Batch: 97504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96566

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.607	0.7235		0.358	0.236	pCi/L	119	
U-238	13.0	13.69		1.77	0.189	pCi/L	105	83 - 121
Uranium-233/234	12.7	12.70		1.68	0.100	pCi/L	100	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*57.0*		*30 - 110*

Lab Sample ID: LCSD 160-96566/3-A
Matrix: Water
Analysis Batch: 97505

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96566

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Uranium-235/236	0.607	0.6708		0.379	0.284	pCi/L	110		0.07	1
U-238	13.0	14.04		1.91	0.182	pCi/L	108	83 - 121	0.1	1
Uranium-233/234	12.7	14.62		1.96	0.228	pCi/L	115	84 - 120	0.53	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCSD 160-96566/3-A
Matrix: Water
Analysis Batch: 97505

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96566

Tracer	LCSD %Yield	LCSD Qualifier	Limits
Uranium-232	47.3		30 - 110

GC/MS Semi VOA

Prep Batch: 88803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-3	NE-B-3_SS	Total/NA	Solid	3550C	
LCS 160-88803/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 160-88803/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 89755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-3	NE-B-3_SS	Total/NA	Solid	8270D	88803
LCS 160-88803/2-A	Lab Control Sample	Total/NA	Solid	8270D	88803
MB 160-88803/1-A	Method Blank	Total/NA	Solid	8270D	88803

Specialty Organics

Prep Batch: 31992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	8290	
LCS 320-31992/2-A	Lab Control Sample	Total/NA	Water	8290	
MB 320-31992/1-A	Method Blank	Total/NA	Water	8290	

Prep Batch: 32034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	HRMS-Sep	

Prep Batch: 32264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-3 - RA	NE-B-3_SS	Total/NA	Solid	8290	
680-96525-3	NE-B-3_SS	Total/NA	Solid	8290	
LCS 320-32264/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-32264/1-A	Method Blank	Total/NA	Solid	8290	

Prep Batch: 32277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-3	NE-B-3_SS	Total/NA	Solid	HRMS-Sox	
LCS 320-32277/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-32277/1-A	Method Blank	Total/NA	Solid	8290	

Prep Batch: 32864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-1	NE-B-2_SS	Total/NA	Solid	HRMS-Sox	
680-96525-6	NE-B-1_SS	Total/NA	Solid	HRMS-Sox	
LCS 320-32864/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
MB 320-32864/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	

Analysis Batch: 33441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-3	NE-B-3_SS	Total/NA	Solid	8290A	32264
LCS 320-32264/2-A	Lab Control Sample	Total/NA	Solid	8290A	32264
MB 320-32264/1-A	Method Blank	Total/NA	Solid	8290A	32264

Specialty Organics (Continued)

Analysis Batch: 33676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	8290A	31992
LCS 320-31992/2-A	Lab Control Sample	Total/NA	Water	8290A	31992
MB 320-31992/1-A	Method Blank	Total/NA	Water	8290A	31992

Analysis Batch: 33846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-3 - RA	NE-B-3_SS	Total/NA	Solid	8290A	32264

Analysis Batch: 34242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-32277/2-A	Lab Control Sample	Total/NA	Solid	1668C	32277
MB 320-32277/1-A	Method Blank	Total/NA	Solid	1668C	32277

Analysis Batch: 35058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	1668C	32034

Analysis Batch: 35734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-32864/2-A	Lab Control Sample	Total/NA	Solid	1668C	32864
MB 320-32864/1-A	Method Blank	Total/NA	Solid	1668C	32864

Analysis Batch: 35959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-1	NE-B-2_SS	Total/NA	Solid	1668C	32864
680-96525-3	NE-B-3_SS	Total/NA	Solid	1668C	32277
680-96525-6	NE-B-1_SS	Total/NA	Solid	1668C	32864

Metals

Prep Batch: 88831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-1	NE-B-2_SS	Total/NA	Solid	7471B	
680-96525-2	NE-B-2_SUB	Total/NA	Solid	7471B	
680-96525-3	NE-B-3_SS	Total/NA	Solid	7471B	
680-96525-4	NE-B-3_SUB	Total/NA	Solid	7471B	
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	7471B	
680-96525-6	NE-B-1_SS	Total/NA	Solid	7471B	
680-96525-7	NE-B-1_SUB	Total/NA	Solid	7471B	
680-96525-7 MS	NE-B-1_SUB	Total/NA	Solid	7471B	
680-96525-7 MSD	NE-B-1_SUB	Total/NA	Solid	7471B	
680-96525-8	NE-B-1_SUB DUP	Total/NA	Solid	7471B	
LCS 160-88831/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-88831/1-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 89051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	7470A	
LCS 160-89051/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 160-89051/1-A	Method Blank	Total/NA	Water	7470A	

Metals (Continued)

Analysis Batch: 89187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	7470A	89051
LCS 160-89051/2-A	Lab Control Sample	Total/NA	Water	7470A	89051
MB 160-89051/1-A	Method Blank	Total/NA	Water	7470A	89051

Analysis Batch: 89215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-1	NE-B-2_SS	Total/NA	Solid	7471B	88831
680-96525-2	NE-B-2_SUB	Total/NA	Solid	7471B	88831
680-96525-3	NE-B-3_SS	Total/NA	Solid	7471B	88831
680-96525-4	NE-B-3_SUB	Total/NA	Solid	7471B	88831
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	7471B	88831
680-96525-6	NE-B-1_SS	Total/NA	Solid	7471B	88831
680-96525-7	NE-B-1_SUB	Total/NA	Solid	7471B	88831
680-96525-7 MS	NE-B-1_SUB	Total/NA	Solid	7471B	88831
680-96525-7 MSD	NE-B-1_SUB	Total/NA	Solid	7471B	88831
680-96525-8	NE-B-1_SUB DUP	Total/NA	Solid	7471B	88831
LCS 160-88831/2-A	Lab Control Sample	Total/NA	Solid	7471B	88831
MB 160-88831/1-A	Method Blank	Total/NA	Solid	7471B	88831

Prep Batch: 89691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-1	NE-B-2_SS	Total/NA	Solid	3050B	
680-96525-2	NE-B-2_SUB	Total/NA	Solid	3050B	
680-96525-3	NE-B-3_SS	Total/NA	Solid	3050B	
680-96525-4	NE-B-3_SUB	Total/NA	Solid	3050B	
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	3050B	
680-96525-6	NE-B-1_SS	Total/NA	Solid	3050B	
680-96525-7	NE-B-1_SUB	Total/NA	Solid	3050B	
680-96525-7 MS	NE-B-1_SUB	Total/NA	Solid	3050B	
680-96525-7 MSD	NE-B-1_SUB	Total/NA	Solid	3050B	
680-96525-8	NE-B-1_SUB DUP	Total/NA	Solid	3050B	
LCS 160-89691/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-89691/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 89693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-1	NE-B-2_SS	Total/NA	Solid	3050B	
680-96525-2	NE-B-2_SUB	Total/NA	Solid	3050B	
680-96525-3	NE-B-3_SS	Total/NA	Solid	3050B	
680-96525-4	NE-B-3_SUB	Total/NA	Solid	3050B	
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	3050B	
680-96525-6	NE-B-1_SS	Total/NA	Solid	3050B	
680-96525-7	NE-B-1_SUB	Total/NA	Solid	3050B	
680-96525-7 MS	NE-B-1_SUB	Total/NA	Solid	3050B	
680-96525-7 MSD	NE-B-1_SUB	Total/NA	Solid	3050B	
680-96525-8	NE-B-1_SUB DUP	Total/NA	Solid	3050B	
LCS 160-89693/13-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 160-89693/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-89693/1-A	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 94327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	3010A	
680-96525-9 MS	RINSATE	Total/NA	Water	3010A	
680-96525-9 MSD	RINSATE	Total/NA	Water	3010A	
LCS 160-94327/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-94327/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 94768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	3010A	
680-96525-9 MS	RINSATE	Total/NA	Water	3010A	
680-96525-9 MSD	RINSATE	Total/NA	Water	3010A	
LCS 160-94768/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-94768/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 94963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-1	NE-B-2_SS	Total/NA	Solid	6020A	89693
680-96525-2	NE-B-2_SUB	Total/NA	Solid	6020A	89693
680-96525-3	NE-B-3_SS	Total/NA	Solid	6020A	89693
680-96525-4	NE-B-3_SUB	Total/NA	Solid	6020A	89693
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	6020A	89693
680-96525-6	NE-B-1_SS	Total/NA	Solid	6020A	89693
680-96525-7	NE-B-1_SUB	Total/NA	Solid	6020A	89693
680-96525-7 MS	NE-B-1_SUB	Total/NA	Solid	6020A	89693
680-96525-7 MSD	NE-B-1_SUB	Total/NA	Solid	6020A	89693
680-96525-8	NE-B-1_SUB DUP	Total/NA	Solid	6020A	89693
LCS 160-89693/13-A	Lab Control Sample	Total/NA	Solid	6020A	89693
LCS 160-89693/2-A	Lab Control Sample	Total/NA	Solid	6020A	89693
MB 160-89693/1-A	Method Blank	Total/NA	Solid	6020A	89693

Analysis Batch: 94972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	6010C	94327
680-96525-9 MS	RINSATE	Total/NA	Water	6010C	94327
680-96525-9 MSD	RINSATE	Total/NA	Water	6010C	94327
LCS 160-94327/2-A	Lab Control Sample	Total/NA	Water	6010C	94327
MB 160-94327/1-A	Method Blank	Total/NA	Water	6010C	94327

Analysis Batch: 95491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	6020A	94768
680-96525-9 MS	RINSATE	Total/NA	Water	6020A	94768
680-96525-9 MSD	RINSATE	Total/NA	Water	6020A	94768
LCS 160-94768/2-A	Lab Control Sample	Total/NA	Water	6020A	94768
MB 160-94768/1-A	Method Blank	Total/NA	Water	6020A	94768

Analysis Batch: 95650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-1	NE-B-2_SS	Total/NA	Solid	6010C	89691
680-96525-2	NE-B-2_SUB	Total/NA	Solid	6010C	89691
680-96525-3	NE-B-3_SS	Total/NA	Solid	6010C	89691

Metals (Continued)

Analysis Batch: 95650 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-4	NE-B-3_SUB	Total/NA	Solid	6010C	89691
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	6010C	89691
680-96525-6	NE-B-1_SS	Total/NA	Solid	6010C	89691
680-96525-7	NE-B-1_SUB	Total/NA	Solid	6010C	89691
680-96525-7 MS	NE-B-1_SUB	Total/NA	Solid	6010C	89691
680-96525-7 MSD	NE-B-1_SUB	Total/NA	Solid	6010C	89691
680-96525-8	NE-B-1_SUB DUP	Total/NA	Solid	6010C	89691
LCS 160-89691/2-A	Lab Control Sample	Total/NA	Solid	6010C	89691
MB 160-89691/1-A	Method Blank	Total/NA	Solid	6010C	89691

General Chemistry

Analysis Batch: 89673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-1	NE-B-2_SS	Total/NA	Solid	Moisture	
680-96525-2	NE-B-2_SUB	Total/NA	Solid	Moisture	
680-96525-3	NE-B-3_SS	Total/NA	Solid	Moisture	
680-96525-4	NE-B-3_SUB	Total/NA	Solid	Moisture	
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	Moisture	
680-96525-6	NE-B-1_SS	Total/NA	Solid	Moisture	
680-96525-7	NE-B-1_SUB	Total/NA	Solid	Moisture	
680-96525-7 MS	NE-B-1_SUB	Total/NA	Solid	Moisture	
680-96525-7 MSD	NE-B-1_SUB	Total/NA	Solid	Moisture	
680-96525-8	NE-B-1_SUB DUP	Total/NA	Solid	Moisture	

Analysis Batch: 91127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	300.0	
680-96525-9 MS	RINSATE	Total/NA	Water	300.0	
680-96525-9 MSD	RINSATE	Total/NA	Water	300.0	
LCS 160-91127/4	Lab Control Sample	Total/NA	Water	300.0	
MB 160-91127/3	Method Blank	Total/NA	Water	300.0	

Leach Batch: 92856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-1	NE-B-2_SS	Soluble	Solid	DI Leach	
680-96525-1 - DL	NE-B-2_SS	Soluble	Solid	DI Leach	
680-96525-2	NE-B-2_SUB	Soluble	Solid	DI Leach	
680-96525-2 - DL	NE-B-2_SUB	Soluble	Solid	DI Leach	
680-96525-3 - DL	NE-B-3_SS	Soluble	Solid	DI Leach	
680-96525-3 - DL2	NE-B-3_SS	Soluble	Solid	DI Leach	
680-96525-4	NE-B-3_SUB	Soluble	Solid	DI Leach	
680-96525-4 - DL	NE-B-3_SUB	Soluble	Solid	DI Leach	
680-96525-5 - DL	NE-B-3_SUB DUP	Soluble	Solid	DI Leach	
680-96525-5	NE-B-3_SUB DUP	Soluble	Solid	DI Leach	
680-96525-6 - DL3	NE-B-1_SS	Soluble	Solid	DI Leach	
680-96525-6	NE-B-1_SS	Soluble	Solid	DI Leach	
680-96525-6 - DL	NE-B-1_SS	Soluble	Solid	DI Leach	
680-96525-7 - DL2	NE-B-1_SUB	Soluble	Solid	DI Leach	
680-96525-7	NE-B-1_SUB	Soluble	Solid	DI Leach	

General Chemistry (Continued)

Leach Batch: 92856 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-7 - DL	NE-B-1_SUB	Soluble	Solid	DI Leach	
680-96525-7 MS - DL2	NE-B-1_SUB	Soluble	Solid	DI Leach	
680-96525-7 MS	NE-B-1_SUB	Soluble	Solid	DI Leach	
680-96525-7 MS - DL	NE-B-1_SUB	Soluble	Solid	DI Leach	
680-96525-7 MSD	NE-B-1_SUB	Soluble	Solid	DI Leach	
680-96525-7 MSD - DL2	NE-B-1_SUB	Soluble	Solid	DI Leach	
680-96525-7 MSD - DL	NE-B-1_SUB	Soluble	Solid	DI Leach	
680-96525-8	NE-B-1_SUB DUP	Soluble	Solid	DI Leach	
680-96525-8 - DL	NE-B-1_SUB DUP	Soluble	Solid	DI Leach	
680-96525-8 - DL2	NE-B-1_SUB DUP	Soluble	Solid	DI Leach	
LCS 160-92856/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 160-92856/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 94320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-1	NE-B-2_SS	Soluble	Solid	300.0	92856
680-96525-1 - DL	NE-B-2_SS	Soluble	Solid	300.0	92856
680-96525-2	NE-B-2_SUB	Soluble	Solid	300.0	92856
680-96525-2 - DL	NE-B-2_SUB	Soluble	Solid	300.0	92856
680-96525-3 - DL	NE-B-3_SS	Soluble	Solid	300.0	92856
680-96525-3 - DL2	NE-B-3_SS	Soluble	Solid	300.0	92856
680-96525-4	NE-B-3_SUB	Soluble	Solid	300.0	92856
680-96525-4 - DL	NE-B-3_SUB	Soluble	Solid	300.0	92856
680-96525-5	NE-B-3_SUB DUP	Soluble	Solid	300.0	92856
680-96525-5 - DL	NE-B-3_SUB DUP	Soluble	Solid	300.0	92856
680-96525-6	NE-B-1_SS	Soluble	Solid	300.0	92856
680-96525-6 - DL	NE-B-1_SS	Soluble	Solid	300.0	92856
680-96525-6 - DL3	NE-B-1_SS	Soluble	Solid	300.0	92856
680-96525-7	NE-B-1_SUB	Soluble	Solid	300.0	92856
680-96525-7 - DL	NE-B-1_SUB	Soluble	Solid	300.0	92856
680-96525-7 - DL2	NE-B-1_SUB	Soluble	Solid	300.0	92856
680-96525-7 MS	NE-B-1_SUB	Soluble	Solid	300.0	92856
680-96525-7 MS - DL	NE-B-1_SUB	Soluble	Solid	300.0	92856
680-96525-7 MS - DL2	NE-B-1_SUB	Soluble	Solid	300.0	92856
680-96525-7 MSD	NE-B-1_SUB	Soluble	Solid	300.0	92856
680-96525-7 MSD - DL	NE-B-1_SUB	Soluble	Solid	300.0	92856
680-96525-7 MSD - DL2	NE-B-1_SUB	Soluble	Solid	300.0	92856
680-96525-8	NE-B-1_SUB DUP	Soluble	Solid	300.0	92856
680-96525-8 - DL	NE-B-1_SUB DUP	Soluble	Solid	300.0	92856
680-96525-8 - DL2	NE-B-1_SUB DUP	Soluble	Solid	300.0	92856
LCS 160-92856/2-A	Lab Control Sample	Soluble	Solid	300.0	92856
MB 160-92856/1-A	Method Blank	Soluble	Solid	300.0	92856

Rad

Prep Batch: 88182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	PrecSep-21	
680-96525-9 DU	RINSATE	Total/NA	Water	PrecSep-21	
LCS 160-88182/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 88182 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-88182/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Prep Batch: 88188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	Fill_Geo-21	
680-96525-9 DU	RINSATE	Total/NA	Water	Fill_Geo-21	
LCS 160-88188/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-21	
MB 160-88188/1-A	Method Blank	Total/NA	Water	Fill_Geo-21	

Leach Batch: 88732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-3	NE-B-3_SS	Total/NA	Solid	Dry and Grind	
680-96525-3 DU	NE-B-3_SS	Total/NA	Solid	Dry and Grind	
680-96525-4	NE-B-3_SUB	Total/NA	Solid	Dry and Grind	
680-96525-4 DU	NE-B-3_SUB	Total/NA	Solid	Dry and Grind	
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	Dry and Grind	

Prep Batch: 89209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-3	NE-B-3_SS	Total/NA	Solid	DPS-21	88732
680-96525-3 DU	NE-B-3_SS	Total/NA	Solid	DPS-21	88732
680-96525-4	NE-B-3_SUB	Total/NA	Solid	DPS-21	88732
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	DPS-21	88732
LCS 160-89209/2-A	Lab Control Sample	Total/NA	Solid	DPS-21	
MB 160-89209/1-A	Method Blank	Total/NA	Solid	DPS-21	

Prep Batch: 89212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-3	NE-B-3_SS	Total/NA	Solid	DPS-0	88732
680-96525-3 DU	NE-B-3_SS	Total/NA	Solid	DPS-0	88732
680-96525-4	NE-B-3_SUB	Total/NA	Solid	DPS-0	88732
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	DPS-0	88732
LCS 160-89212/2-A	Lab Control Sample	Total/NA	Solid	DPS-0	
MB 160-89212/1-A	Method Blank	Total/NA	Solid	DPS-0	

Prep Batch: 90393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-3	NE-B-3_SS	Total/NA	Solid	Thin_Layer	88732
680-96525-4	NE-B-3_SUB	Total/NA	Solid	Thin_Layer	88732
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	Thin_Layer	88732
LCS 160-90393/2-A	Lab Control Sample	Total/NA	Solid	Thin_Layer	
MB 160-90393/1-A	Method Blank	Total/NA	Solid	Thin_Layer	

Prep Batch: 91490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-3	NE-B-3_SS	Total/NA	Solid	Fill_Geo-21	88732
680-96525-4	NE-B-3_SUB	Total/NA	Solid	Fill_Geo-21	88732
680-96525-4 DU	NE-B-3_SUB	Total/NA	Solid	Fill_Geo-21	88732
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	Fill_Geo-21	88732
LCS 160-91490/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-91490/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Rad (Continued)

Prep Batch: 92634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	PrecSep_0	
LCS 160-92634/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-92634/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Prep Batch: 94985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-3	NE-B-3_SS	Total/NA	Solid	ExtChrom	88732
680-96525-4	NE-B-3_SUB	Total/NA	Solid	ExtChrom	88732
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	ExtChrom	88732
LCS 160-94985/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-94985/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 95022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-3	NE-B-3_SS	Total/NA	Solid	ExtChrom	88732
680-96525-4	NE-B-3_SUB	Total/NA	Solid	ExtChrom	88732
680-96525-5	NE-B-3_SUB DUP	Total/NA	Solid	ExtChrom	88732
LCS 160-95022/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-95022/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 95023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	Evaporation	
LCS 160-95023/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-95023/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-95023/1-A	Method Blank	Total/NA	Water	Evaporation	

Prep Batch: 96565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-96565/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-96565/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-96565/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 96566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96525-9	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-96566/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-96566/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-96566/1-A	Method Blank	Total/NA	Water	ExtChrom	

Client Sample ID: NE-B-2_SS

Lab Sample ID: 680-96525-1

Date Collected: 11/22/13 10:00

Matrix: Solid

Date Received: 11/26/13 10:00

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	HRMS-Sox			4.93 g	20 uL	32864	12/30/13 13:50	GDB	TAL SAC
Total/NA	Analysis	1668C		1	4.93 g	20 uL	35959	02/10/14 15:59	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	7471B			0.6300 g	100 mL	88831	12/02/13 13:49	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6300 g	100 mL	89215	12/03/13 12:02	MTS	TAL SL
	Instrument ID: HAA2									
Total/NA	Prep	3050B			0.5141 g	50 mL	89693	12/04/13 11:01	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5141 g	50 mL	94963	12/26/13 20:42	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5141 g	50 mL	89691	12/04/13 10:50	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5141 g	50 mL	95650	12/31/13 19:49	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Analysis	Moisture		1			89673	12/04/13 08:12	SDB	TAL SL
	Instrument ID: NOEQUIP									
Soluble	Leach	DI Leach			4.0320 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	94320	12/18/13 18:57	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		4.0320 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	94320	12/18/13 19:14	AMF	TAL SL
	Instrument ID: IC2500									

Client Sample ID: NE-B-2_SUB

Lab Sample ID: 680-96525-2

Date Collected: 11/22/13 11:50

Matrix: Solid

Date Received: 11/26/13 10:00

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.6444 g	100 mL	88831	12/02/13 13:49	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6444 g	100 mL	89215	12/03/13 12:04	MTS	TAL SL
	Instrument ID: HAA2									
Total/NA	Prep	3050B			0.5052 g	50 mL	89693	12/04/13 11:01	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5052 g	50 mL	94963	12/26/13 20:49	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5052 g	50 mL	89691	12/04/13 10:50	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5052 g	50 mL	95650	12/31/13 19:53	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Analysis	Moisture		1			89673	12/04/13 08:12	SDB	TAL SL
	Instrument ID: NOEQUIP									
Soluble	Leach	DI Leach			3.9714 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	94320	12/18/13 19:47	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		3.9714 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	94320	12/18/13 20:03	AMF	TAL SL
	Instrument ID: IC2500									

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-3_SS
Date Collected: 11/22/13 12:45
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-3
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	3550C			30.02 g	1 mL	88803	12/02/13 12:19	CNS	TAL SL
Total/NA	Analysis	8270D		1	30.02 g	1 mL	89755	12/04/13 04:48	JSW	TAL SL
	Instrument ID: MSI									
Total/NA	Prep	8290			10.04 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A		1	10.04 g	40 uL	33441	01/08/14 03:29	JRB	TAL SAC
	Instrument ID: 3D5									
Total/NA	Prep	8290	RA		10.04 g	40 uL	32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A	RA	1	10.04 g	40 uL	33846	01/14/14 01:47	JRB	TAL SAC
	Instrument ID: 11D5									
Total/NA	Prep	HRMS-Sox			10.04 g	40 uL	32277	12/19/13 17:37	GDB	TAL SAC
Total/NA	Analysis	1668C		1	10.04 g	40 uL	35959	02/10/14 14:44	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	7471B			0.6761 g	100 mL	88831	12/02/13 13:49	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6761 g	100 mL	89215	12/03/13 12:06	MTS	TAL SL
	Instrument ID: HAA2									
Total/NA	Prep	3050B			0.5190 g	50 mL	89693	12/04/13 11:01	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5190 g	50 mL	94963	12/26/13 20:56	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5190 g	50 mL	89691	12/04/13 10:50	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5190 g	50 mL	95650	12/31/13 19:57	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Analysis	Moisture		1			89673	12/04/13 08:12	SDB	TAL SL
	Instrument ID: NOEQUIP									
Soluble	Leach	DI Leach	DL		3.9770 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	94320	12/18/13 21:25	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		3.9770 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL2	200	5 mL	5 mL	94320	12/18/13 21:42	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	88732	11/29/13 15:27	DRO	TAL SL
Total/NA	Prep	Thin_Layer			0.0854 g	1.0 g	90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.0854 g		90957	12/10/13 06:31	LES	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	DPS-0			1.0179 g	1.0 g	89212	12/03/13 13:00	RLS	TAL SL
Total/NA	Analysis	904.0		1	1.0179 g		93509	12/19/13 11:43	RTM	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	88732	11/29/13 15:27	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0179 g	1.0 g	89209	12/03/13 12:50	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0179 g		94799	12/26/13 16:53	EMN	TAL SL
	Instrument ID: GFPCPROTEAN									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	88732	11/29/13 15:27	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			371.5 g	1.0 g	91490	12/12/13 15:18	MJS	TAL SL
Total/NA	Analysis	901.1		1	371.5 g		95991	01/03/14 09:26	SMP	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	88732	11/29/13 15:27	DRO	TAL SL

Client Sample ID: NE-B-3_SS

Lab Sample ID: 680-96525-3

Date Collected: 11/22/13 12:45

Matrix: Solid

Date Received: 11/26/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	ExtChrom			1.0010 g	1.0 mL	95022	12/27/13 11:05	CEZ	TAL SL
Total/NA	Analysis	A-01-R		1	1.0010 g		97942	01/13/14 21:11	MLK	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Prep	ExtChrom			1.0010 g	1.0 mL	94985	12/27/13 11:05	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0010 g		98301	01/14/14 13:33	MLK	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: NE-B-3_SUB

Lab Sample ID: 680-96525-4

Date Collected: 11/22/13 13:45

Matrix: Solid

Date Received: 11/26/13 10:00

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.6659 g	100 mL	88831	12/02/13 13:49	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6659 g	100 mL	89215	12/03/13 12:11	MTS	TAL SL
	Instrument ID: HAA2									
Total/NA	Prep	3050B			0.5208 g	50 mL	89693	12/04/13 11:01	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5208 g	50 mL	94963	12/26/13 21:02	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5208 g	50 mL	89691	12/04/13 10:50	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5208 g	50 mL	95650	12/31/13 20:01	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Analysis	Moisture		1			89673	12/04/13 08:12	SDB	TAL SL
	Instrument ID: NOEQUIP									
Soluble	Leach	DI Leach			3.9968 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	94320	12/18/13 21:58	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		3.9968 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	94320	12/18/13 22:14	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Prep	Thin_Layer			0.0862 g	1.0 g	90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.0862 g		90958	12/10/13 06:33	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	88732	11/29/13 15:27	DRO	TAL SL
Total/NA	Prep	DPS-0			1.0061 g	1.0 g	89212	12/03/13 13:00	RLS	TAL SL
Total/NA	Analysis	904.0		1	1.0061 g		93510	12/19/13 11:47	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	88732	11/29/13 15:27	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0061 g	1.0 g	89209	12/03/13 12:50	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0061 g		94799	12/26/13 16:53	EMN	TAL SL
	Instrument ID: GFPCPROTEAN									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	88732	11/29/13 15:27	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			389.2 g	1.0 g	91490	12/12/13 15:18	MJS	TAL SL
Total/NA	Analysis	901.1		1	389.2 g		95985	01/03/14 09:27	SMP	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	88732	11/29/13 15:27	DRO	TAL SL

Client Sample ID: NE-B-3_SUB

Lab Sample ID: 680-96525-4

Date Collected: 11/22/13 13:45

Matrix: Solid

Date Received: 11/26/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	ExtChrom			1.0046 g	1.0 mL	94985	12/27/13 11:05	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	1.0046 g		98302	01/14/14 13:33	MLK	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Prep	ExtChrom			1.0046 g	1.0 mL	95022	12/27/13 11:05	CEZ	TAL SL
Total/NA	Analysis	A-01-R		1	1.0046 g		98335	01/14/14 13:39	MLK	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: NE-B-3_SUB DUP

Lab Sample ID: 680-96525-5

Date Collected: 11/22/13 13:45

Matrix: Solid

Date Received: 11/26/13 10:00

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	7471B			0.6380 g	100 mL	88831	12/02/13 13:49	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6380 g	100 mL	89215	12/03/13 12:12	MTS	TAL SL
	Instrument ID: HAA2									
Total/NA	Prep	3050B			0.5216 g	50 mL	89693	12/04/13 11:01	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5216 g	50 mL	94963	12/26/13 21:09	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5216 g	50 mL	89691	12/04/13 10:50	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5216 g	50 mL	95650	12/31/13 20:04	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Analysis	Moisture		1			89673	12/04/13 08:12	SDB	TAL SL
	Instrument ID: NOEQUIP									
Soluble	Leach	DI Leach			4.0002 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	94320	12/18/13 22:47	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		4.0002 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	94320	12/18/13 23:04	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Prep	Thin_Layer			0.0849 g	1.0 g	90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	0.0849 g		90958	12/10/13 06:33	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	88732	11/29/13 15:27	DRO	TAL SL
Total/NA	Prep	DPS-0			1.0001 g	1.0 g	89212	12/03/13 13:00	RLS	TAL SL
Total/NA	Analysis	904.0		1	1.0001 g		93510	12/19/13 11:47	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	88732	11/29/13 15:27	DRO	TAL SL
Total/NA	Prep	DPS-21			1.0001 g	1.0 g	89209	12/03/13 12:50	RLS	TAL SL
Total/NA	Analysis	903.0		1	1.0001 g		94799	12/26/13 16:53	EMN	TAL SL
	Instrument ID: GFPCPROTEAN									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	88732	11/29/13 15:27	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			371.1 g	1.0 g	91490	12/12/13 15:18	MJS	TAL SL
Total/NA	Analysis	901.1		1	371.1 g		95982	01/03/14 09:27	SMP	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Prep	ExtChrom			1.0020 g	1.0 mL	94985	12/27/13 11:05	MLM	TAL SL

Client Sample ID: NE-B-3_SUB DUP

Lab Sample ID: 680-96525-5

Date Collected: 11/22/13 13:45

Matrix: Solid

Date Received: 11/26/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	A-01-R		1	1.0020 g		98303	01/14/14 13:33	MLK	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	88732	11/29/13 15:27	DRO	TAL SL
Total/NA	Prep	ExtChrom			1.0020 g	1.0 mL	95022	12/27/13 11:05	CEZ	TAL SL
Total/NA	Analysis	A-01-R		1	1.0020 g		98336	01/14/14 13:39	MLK	TAL SL
	Instrument ID: ALPHAVISION									

Client Sample ID: NE-B-1_SS

Lab Sample ID: 680-96525-6

Date Collected: 11/22/13 09:00

Matrix: Solid

Date Received: 11/26/13 10:00

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	HRMS-Sox			5.00 g	20 uL	32864	12/30/13 13:50	GDB	TAL SAC
Total/NA	Analysis	1668C		1	5.00 g	20 uL	35959	02/10/14 17:14	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	7471B			0.6908 g	100 mL	88831	12/02/13 13:49	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6908 g	100 mL	89215	12/03/13 12:14	MTS	TAL SL
	Instrument ID: HAA2									
Total/NA	Prep	3050B			0.5254 g	50 mL	89693	12/04/13 11:01	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5254 g	50 mL	94963	12/26/13 21:16	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5254 g	50 mL	89691	12/04/13 10:50	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5254 g	50 mL	95650	12/31/13 20:08	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Analysis	Moisture		1			89673	12/04/13 08:12	SDB	TAL SL
	Instrument ID: NOEQUIP									
Soluble	Leach	DI Leach			4.0321 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	94320	12/19/13 00:09	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		4.0321 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	94320	12/19/13 00:26	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL3		4.0321 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL3	1000	5 mL	5 mL	94320	12/19/13 11:10	AMF	TAL SL
	Instrument ID: IC2500									

Client Sample ID: NE-B-1_SUB

Lab Sample ID: 680-96525-7

Date Collected: 11/22/13 10:00

Matrix: Solid

Date Received: 11/26/13 10:00

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.6620 g	100 mL	88831	12/02/13 13:49	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6620 g	100 mL	89215	12/03/13 12:15	MTS	TAL SL
	Instrument ID: HAA2									

Client Sample ID: NE-B-1_SUB

Lab Sample ID: 680-96525-7

Date Collected: 11/22/13 10:00

Matrix: Solid

Date Received: 11/26/13 10:00

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.5074 g	50 mL	89693	12/04/13 11:01	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5074 g	50 mL	94963	12/26/13 21:23	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5074 g	50 mL	89691	12/04/13 10:50	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5074 g	50 mL	95650	12/31/13 20:12	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Analysis	Moisture		1			89673	12/04/13 08:12	SDB	TAL SL
	Instrument ID: NOEQUIP									
Soluble	Leach	DI Leach			4.0341 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	94320	12/19/13 00:59	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		4.0341 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	94320	12/19/13 01:15	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		4.0341 g	40 mL	92856	12/18/13 13:25	AMF	TAL SL
Soluble	Analysis	300.0	DL2	200	5 mL	5 mL	94320	12/19/13 01:31	AMF	TAL SL
	Instrument ID: IC2500									

Client Sample ID: NE-B-1_SUB DUP

Lab Sample ID: 680-96525-8

Date Collected: 11/22/13 10:00

Matrix: Solid

Date Received: 11/26/13 10:00

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.6507 g	100 mL	88831	12/02/13 13:49	MTS	TAL SL
Total/NA	Analysis	7471B		1	0.6507 g	100 mL	89215	12/03/13 12:22	MTS	TAL SL
	Instrument ID: HAA2									
Total/NA	Prep	3050B			0.5356 g	50 mL	89693	12/04/13 11:01	WA1	TAL SL
Total/NA	Analysis	6020A		10	0.5356 g	50 mL	94963	12/26/13 22:03	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Prep	3050B			0.5356 g	50 mL	89691	12/04/13 10:50	WA1	TAL SL
Total/NA	Analysis	6010C		5	0.5356 g	50 mL	95650	12/31/13 20:35	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Analysis	Moisture		1			89673	12/04/13 08:12	SDB	TAL SL
	Instrument ID: NOEQUIP									
Soluble	Leach	DI Leach			4.0154 g	40 mL	92856	12/18/13 13:27	AMF	TAL SL
Soluble	Analysis	300.0		1	5 mL	5 mL	94320	12/19/13 03:59	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL		4.0154 g	40 mL	92856	12/18/13 13:27	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	5 mL	5 mL	94320	12/19/13 04:16	AMF	TAL SL
	Instrument ID: IC2500									
Soluble	Leach	DI Leach	DL2		4.0154 g	40 mL	92856	12/18/13 13:27	AMF	TAL SL
Soluble	Analysis	300.0	DL2	200	5 mL	5 mL	94320	12/19/13 04:32	AMF	TAL SL
	Instrument ID: IC2500									

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: RINSATE

Date Collected: 11/25/13 12:30
Date Received: 11/26/13 10:00

Lab Sample ID: 680-96525-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1022 mL	20.00 uL	31992	12/16/13 16:32	CCC	TAL SAC
Total/NA	Analysis	8290A		1	1022 mL	20.00 uL	33676	01/10/14 02:21	JRB	TAL SAC
	Instrument ID: 10D5									
Total/NA	Prep	HRMS-Sep			1004 mL	20.00 uL	32034	12/17/13 10:53	CCC	TAL SAC
Total/NA	Analysis	1668C		1	1004 mL	20.00 uL	35058	01/31/14 02:21	KSS	TAL SAC
	Instrument ID: 12DB									
Total/NA	Prep	7470A			30 mL	30 mL	89051	12/03/13 07:05	MTS	TAL SL
Total/NA	Analysis	7470A		1	30 mL	30 mL	89187	12/03/13 09:31	MTS	TAL SL
	Instrument ID: HAA2									
Total/NA	Prep	3010A			50 mL	50 mL	94327	12/23/13 15:26	WA1	TAL SL
Total/NA	Analysis	6010C		1	50 mL	50 mL	94972	12/26/13 23:04	FLC	TAL SL
	Instrument ID: ICP6500									
Total/NA	Prep	3010A			50 mL	50 mL	94768	12/26/13 15:25	WA1	TAL SL
Total/NA	Analysis	6020A		1	50 mL	50 mL	95491	12/30/13 19:05	CCB	TAL SL
	Instrument ID: ICPMS7700									
Total/NA	Analysis	300.0		1	5 mL	5 mL	91127	11/26/13 12:32	AMF	TAL SL
	Instrument ID: IC2500									
Total/NA	Prep	PrecSep-21			960.68 mL	1.0 g	88182	11/26/13 14:54	RLS	TAL SL
Total/NA	Analysis	903.0		1	960.68 mL		93190	12/18/13 09:27	RTM	TAL SL
	Instrument ID: GFPCPROTEAN									
Total/NA	Prep	Fill_Geo-21			1000 mL	1.0 g	88188	11/26/13 15:20	LEM	TAL SL
Total/NA	Analysis	901.1		1	1000 mL		93502	12/19/13 19:45	SMP	TAL SL
	Instrument ID: GAMMAVISION									
Total/NA	Prep	PrecSep_0			955.70 mL	1.0 g	92634	12/17/13 14:46	RLS	TAL SL
Total/NA	Analysis	904.0		1	955.70 mL		93855	12/20/13 12:27	RTM	TAL SL
	Instrument ID: GFPCORANGE									
Total/NA	Prep	Evaporation			200 mL	1.0 g	95023	12/27/13 12:05	MJS	TAL SL
Total/NA	Analysis	900.0		1	200 mL		95463	12/30/13 08:34	RTM	TAL SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	ExtChrom			320.42 mL	1.0 mL	96565	01/07/14 11:06	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	320.42 mL		97502	01/10/14 20:51	LES	TAL SL
	Instrument ID: ALPHAVISION									
Total/NA	Prep	ExtChrom			320.42 mL	1.0 mL	96566	01/07/14 11:06	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	320.42 mL		97506	01/10/14 20:53	MLK	TAL SL
	Instrument ID: ALPHAVISION									

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96525
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.582.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Oil, Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	350, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8290A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	N	P	J	F	N	N		
NE-B-2_SS	11-22-13	0-0.5	Northeast Property	1100	C/G	S				1				1	1								2	120g 60g
NE-B-2_SUB	11-22-13	10-15	Northeast Property	1150	C/G	S				1				1									2	↓ ↓
																							0	
																							0	
																							0	
																							0	
																							0	3.6°C / 2.4°C
																							0	
																							0	
																							0	
																							0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Kelly B. Shelley	Date/Time: 11/25/13 1130	Company: GEI	Received by: Kelly B. Shelley
Relinquished by: Kelly Shelley	Date/Time: 11/25/13 1325	Company: GEI	Received by:
Relinquished by:	Date/Time: 11/26/13 1000	Company: TA	Received by: Joe Clark

Received by:	Date/Time: 11/25/13	Company: GEI
Received by:	Date/Time: 11/26/13 1325	Company: TA
Received by: Joe Clark	Date/Time: 11-26-13 1000	Company: TA SRL

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.		Analysis Requested		Job #: 680-96525
Address: 1375 Peachtree Street NE, Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - AmchlorH - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 9315, 904.0, A01R_Th (Radionuclides)	300, 6020_Total_Mass (Anions / Total Uranium)	901.1_Ra - (HOD) HORIB Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of Containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	J	F	N	N		
NE-B-3_SS		0-0.5	Northeast Property	[illegible]	C/G	S			1	1	2	1		1	1						^	7	2x500p, 4x120g
NE-B-3_SUB		10-15	Northeast Property	1345	C/G	S			1	1	2			1								6	2x500p, 2x120g, 60g
NE-B-3_SUB DUP		10-15	Northeast Property	1345	C/G	S			1	1	2			1								5	2x500p, 3x120g
		[illegible]																				0	
																						0	
																						0	
																						0	3.6 C / 2.4 C
																						0	
																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	11/25/13 1230	GEI	[signature]	11/25/13	GEI
2	[signature]	11/25/13 1325	GEI	[signature]	11/26/13 1330	TA
3	[signature]	11/25/13 1430	TA	[signature]	11.26.13 1000	TASR

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkoy	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96525
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	309, 5620_Total_Mass (Ankers / Total Uranium)	901.1_Ra - (4000) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	P	F	N	N				
NE-B-1_SS	11-22-13	0-0.5	Northeast Property	0800	C/G	S				1				1	1							3	120, 60s
NE-B-1_SUB		8.5-13.5	Northeast Property	1000	C/G	S				1				1								2	↓
NE-B-1_SUB DUP		8.5-13.5	↓	1000	↓	↓				1				1								2	2x120
NE-B-1_SUB MS		8.5-13.5		1000						1				1								2	120, 60s
NE-B-1_SUB MSD		8.5-13.5		1000						1				1								2	2x120
																						0	
																						0	
																						0	3.6C/2.4C
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Jeff Shelkoy	11/25/13 1230	GEI	Kathryn Smith	11/25/13 1230	GEI
2	Kathryn Smith	11/25/13 1325	TA		11/26/13 1325	TA
3		11-25-13 1400	TA	Jeff Clark	11-26-13 1000	TA SRL

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 660-51811-23157.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96525
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	A01R_U - (MOD) Local Method (Radionuclides)	A01R_Th - Standard Target List (Radionuclides)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	904.0 - Standard Target List (Radionuclides)	903.0 - Standard Target List (Radionuclides)	300 - (MOD) Local Method (Anions)	6010C, 6020A, 7470A (Metals)	900.0 - Standard Target List (Radionuclides)	8260C - OLM 4.2 (VOCs)	1668C (PCB Congeners)	8082A (PCB Aroclors)	8270D SVOCs (Project list to include PAHs)	8290 (Dioxins)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	D	D	D	D	N	D	D	A	N	N	N	N	X	
Bin Sample	11/25/13	1230	G	Water	N	N	1	1	1	1	1	1	1	1	X	2	X	X	X	10	6x4p - Nitric 500p - ↓ 250p - ↓ 250p - Unpres.

3.6°C/2.4°C

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.
Deliverable Requested: I, II, III, IV, Other (specify) Level IV	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jeffrey B. Shelkey	11/25/13 1335	GEI		11/26/13 1335	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/25/13 1400		Jeff Clark	11.26.13 1022	TA STL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96525-1

Login Number: 96525

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

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

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96525-1

Login Number: 96525
List Number: 1
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento
List Creation: 12/12/13 09:39 AM

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.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96525-1

Login Number: 96525
List Number: 2
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento
List Creation: 12/12/13 09:40 AM

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.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96525-1

Login Number: 96525
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 11/26/13 01:22 PM

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6, 2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	01-31-15
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	06-30-14
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	04-17-14 *
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	03-31-14 *
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	12-31-14
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14 *
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia DEP	State Program	3	94	06-30-14
West Virginia DHHR	State Program	3	9950C	12-31-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

Laboratory: TestAmerica Sacramento

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

* Expired certification is currently pending renewal and is considered valid.

Laboratory: TestAmerica Sacramento (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	03-31-14
Alaska (UST)	State Program	10	UST-055	12-18-13 *
Arizona	State Program	9	AZ0708	08-11-14
Arkansas DEQ	State Program	6	88-0691	06-17-14
California	State Program	9	2897	01-31-15
Colorado	State Program	8	N/A	08-31-14
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-14
Guam	State Program	9	N/A	08-31-14
Hawaii	State Program	9	N/A	01-29-15
Illinois	NELAP	5	200060	03-17-15
Kansas	NELAP	7	E-10375	10-31-14
Louisiana	NELAP	6	30612	06-30-14
Michigan	State Program	5	9947	01-31-15
Nebraska	State Program	7	NE-OS-22-13	01-29-15
Nevada	State Program	9	CA44	07-31-14
New Jersey	NELAP	2	CA005	06-30-14
New York	NELAP	2	11666	03-31-14
Northern Mariana Islands	State Program	9	MP0007	02-28-14 *
Oregon	NELAP	10	CA200005	01-29-15
Pennsylvania	NELAP	3	9947	03-31-14
South Carolina	State Program	4	87014	06-30-14
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-14
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	02-28-15
Washington	State Program	10	C581	05-05-14
West Virginia DHHR	State Program	3	9930C	12-31-14
Wyoming	State Program	8	8TMS-Q	02-28-14 *

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-14
California	NELAP	9	09266CA	03-31-14
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-14
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14
Kentucky (DW)	State Program	4	90125	12-31-14
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	LA140007	12-31-14
Maryland	State Program	3	310	09-30-14
Missouri	State Program	7	780	06-30-14
Nevada	State Program	9	MO000542013-1	07-31-14
New Jersey	NELAP	2	MO002	06-30-14
New Mexico	State Program	6		06-30-10 *

* Expired certification is currently pending renewal and is considered valid.

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11616	04-01-14
North Dakota	State Program	8	R207	06-30-14
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	2013-049	08-31-14
Pennsylvania	NELAP	3	68-00540	02-28-14 *
South Carolina	State Program	4	85002001	06-30-14
Texas	NELAP	6	T104704193-13-6	07-31-14
USDA	Federal		P330-07-00122	01-09-17
USEPA Reg V SDWA	Federal	1	WG-15J	08-30-14
Utah	NELAP	8	MO000542013-5	07-31-14
Virginia	NELAP	3	2236	06-14-14
Washington	State Program	10	C592	08-30-14
West Virginia DEP	State Program	3	381	02-28-14 *

* Expired certification is currently pending renewal and is considered valid.

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-96525-3	NE-B-3_SS	74.9
680-96525-3 DU	NE-B-3_SS	101
680-96525-4	NE-B-3_SUB	90.6
680-96525-5	NE-B-3_SUB DUP	93.2
LCS 160-89209/2-A	Lab Control Sample	104
MB 160-89209/1-A	Method Blank	102

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-96525-9	RINSATE	101
680-96525-9 DU	RINSATE	102
LCS 160-88182/2-A	Lab Control Sample	101
MB 160-88182/1-A	Method Blank	101

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-96525-3	NE-B-3_SS	74.9	86.4
680-96525-3 DU	NE-B-3_SS	101	88.6
680-96525-4	NE-B-3_SUB	90.6	89.0
680-96525-5	NE-B-3_SUB DUP	93.2	86.0
LCS 160-89212/2-A	Lab Control Sample	104	88.6
MB 160-89212/1-A	Method Blank	102	90.8

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-96525-9	RINSATE	101	91.6
LCS 160-92634/2-A	Lab Control Sample	101	90.1
MB 160-92634/1-A	Method Blank	98.8	91.6

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		Th-229
Lab Sample ID	Client Sample ID	(30-110)
680-96525-3	NE-B-3_SS	86.5
680-96525-4	NE-B-3_SUB	84.6
680-96525-5	NE-B-3_SUB DUP	87.2
LCS 160-94985/2-A	Lab Control Sample	87.8
MB 160-94985/1-A	Method Blank	83.9

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		Th-229
Lab Sample ID	Client Sample ID	(30-110)
680-96525-9	RINSATE	76.6
LCS 160-96565/2-A	Lab Control Sample	85.6
LCSD 160-96565/3-A	Lab Control Sample Dup	114 X
MB 160-96565/1-A	Method Blank	89.2

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		U-232
Lab Sample ID	Client Sample ID	(30-110)
680-96525-3	NE-B-3_SS	85.4
680-96525-4	NE-B-3_SUB	79.5
680-96525-5	NE-B-3_SUB DUP	87.5
LCS 160-95022/2-A	Lab Control Sample	88.7
MB 160-95022/1-A	Method Blank	85.0

Tracer/Carrier Legend

U-232 = Uranium-232

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		U-232
Lab Sample ID	Client Sample ID	(30-110)
680-96525-9	RINSATE	56.9
LCS 160-96566/2-A	Lab Control Sample	57.0

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

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

		Percent Yield (Acceptance Limits)							
		U-232							
Lab Sample ID	Client Sample ID	(30-110)							
LCSD 160-96566/3-A	Lab Control Sample Dup	47.3							
MB 160-96566/1-A	Method Blank	61.2							

Tracer/Carrier Legend

U-232 = Uranium-232

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-2_SS — Lab Sample ID: 680-96525-1

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		0.44	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**9.6**		4.3	1.2	pg/g	0.0001	**0.00096**	1668C
PCB-81	1.2	U	4.3	1.2	pg/g	0.0003	0.00	1668C
PCB-105	**84**		4.3	3.4	pg/g	0.00003	**0.0025**	1668C
PCB-114	**3.4**	**J**	4.3	3.3	pg/g	0.00003	**0.00010**	1668C
PCB-118	**170**	**B**	4.3	3.2	pg/g	0.00003	**0.0051**	1668C
PCB-123	3.1	U	4.3	3.1	pg/g	0.00003	0.00	1668C
PCB-126	**4.3**		4.3	3.6	pg/g	0.1	**0.43**	1668C
PCB-156/157	**52**		8.5	1.2	pg/g	0.00003	**0.0016**	1668C
PCB-167	**17**		4.3	0.95	pg/g	0.00003	**0.00051**	1668C
PCB-169	1.1	U	4.3	1.1	pg/g	0.03	0.00	1668C
PCB-189	**4.8**		4.3	0.71	pg/g	0.00003	**0.00014**	1668C

Client Sample ID: NE-B-3_SS — Lab Sample ID: 680-96525-3

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		2.7	TEQ
Total PCB TEQ					pg/g		0.60	TEQ
Total TEQ					pg/g		3.3	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**32**		4.3	1.5	pg/g	0.0001	**0.0032**	1668C
PCB-81	1.4	U	4.3	1.4	pg/g	0.0003	0.00	1668C
PCB-105	**110**		4.3	3.3	pg/g	0.00003	**0.0033**	1668C
PCB-114	**5.7**		4.3	3.0	pg/g	0.00003	**0.00017**	1668C
PCB-118	**210**	**B**	4.3	3.0	pg/g	0.00003	**0.0063**	1668C
PCB-123	**4.2**	**J**	4.3	3.0	pg/g	0.00003	**0.00013**	1668C
PCB-126	**5.8**		4.3	3.6	pg/g	0.1	**0.58**	1668C
PCB-156/157	**46**		8.7	1.0	pg/g	0.00003	**0.0014**	1668C
PCB-167	**16**		4.3	0.79	pg/g	0.00003	**0.00048**	1668C
PCB-169	0.91	U	4.3	0.91	pg/g	0.03	0.00	1668C
PCB-189	**4.5**		4.3	0.64	pg/g	0.00003	**0.00014**	1668C
2,3,7,8-TCDD	**0.10**	**J q**	2.2	0.038	pg/g	1	**0.10**	8290A
1,2,3,7,8-PeCDD	**0.20**	**J**	11	0.064	pg/g	1	**0.20**	8290A
1,2,3,7,8-PeCDF	**2.9**	**J**	11	0.079	pg/g	0.03	**0.087**	8290A
2,3,4,7,8-PeCDF	**1.5**	**J B q**	11	0.082	pg/g	0.3	**0.45**	8290A
1,2,3,4,7,8-HxCDD	0.051	U	11	0.051	pg/g	0.1	0.00	8290A
1,2,3,6,7,8-HxCDD	**0.48**	**J B q**	11	0.036	pg/g	0.1	**0.048**	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: NE-B-3_SS (Continued)

Lab Sample ID: 680-96525-3

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
1,2,3,7,8,9-HxCDD	0.70	J B q	11	0.037	pg/g	0.1	0.070	8290A
1,2,3,4,7,8-HxCDF	6.1	J B	11	0.082	pg/g	0.1	0.61	8290A
1,2,3,6,7,8-HxCDF	3.0	J B	11	0.061	pg/g	0.1	0.30	8290A
1,2,3,7,8,9-HxCDF	0.39	J B	11	0.079	pg/g	0.1	0.039	8290A
2,3,4,6,7,8-HxCDF	1.2	J B	11	0.071	pg/g	0.1	0.12	8290A
1,2,3,4,6,7,8-HpCDD	1.9	J B	11	0.087	pg/g	0.01	0.019	8290A
1,2,3,4,6,7,8-HpCDF	15	B	11	0.12	pg/g	0.01	0.15	8290A
1,2,3,4,7,8,9-HpCDF	3.2	J B	11	0.14	pg/g	0.01	0.032	8290A
OCDD	10	J B	22	0.11	pg/g	0.0003	0.0030	8290A
OCDF	81	B	22	0.18	pg/g	0.0003	0.024	8290A
2,3,7,8-TCDF - RA	4.3	B	2.2	0.12	pg/g	0.1	0.43	8290A

Client Sample ID: NE-B-1_SS

Lab Sample ID: 680-96525-6

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		0.0026	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	1.5	U	4.2	1.5	pg/g	0.0001	0.00	1668C
PCB-81	1.4	U	4.2	1.4	pg/g	0.0003	0.00	1668C
PCB-105	22		4.2	1.5	pg/g	0.00003	0.00066	1668C
PCB-114	1.5	U	4.2	1.5	pg/g	0.00003	0.00	1668C
PCB-118	56	B	4.2	1.4	pg/g	0.00003	0.0017	1668C
PCB-123	1.4	U	4.2	1.4	pg/g	0.00003	0.00	1668C
PCB-126	1.5	U	4.2	1.5	pg/g	0.1	0.00	1668C
PCB-156/157	5.8	J	8.5	0.68	pg/g	0.00003	0.00017	1668C
PCB-167	2.0	J	4.2	0.53	pg/g	0.00003	0.000060	1668C
PCB-169	0.59	U	4.2	0.59	pg/g	0.03	0.00	1668C
PCB-189	0.58	U	4.2	0.58	pg/g	0.00003	0.00	1668C

Client Sample ID: RINSATE

Lab Sample ID: 680-96525-9

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	2.3	U	20	2.3	pg/L	0.0001	0.00	1668C
PCB-81	2.1	U	20	2.1	pg/L	0.0003	0.00	1668C
PCB-105	1.6	U	20	1.6	pg/L	0.00003	0.00	1668C
PCB-114	1.4	U	20	1.4	pg/L	0.00003	0.00	1668C
PCB-118	4.7	J B	20	1.4	pg/L	0.00003	0.00014	1668C
PCB-123	1.5	U	20	1.5	pg/L	0.00003	0.00	1668C

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Client Sample ID: RINSATE (Continued)

Lab Sample ID: 680-96525-9

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-126	1.9	U	20	1.9	pg/L	0.1	0.00	1668C
PCB-156/157	1.6	U	40	1.6	pg/L	0.00003	0.00	1668C
PCB-167	1.2	U	20	1.2	pg/L	0.00003	0.00	1668C
PCB-169	1.7	U	20	1.7	pg/L	0.03	0.00	1668C
PCB-189	3.0	U	20	3.0	pg/L	0.00003	0.00	1668C
2,3,7,8-TCDD	0.16	U	9.8	0.16	pg/L	1	0.00	8290A
2,3,7,8-TCDF	0.10	U	9.8	0.10	pg/L	0.1	0.00	8290A
1,2,3,7,8-PeCDD	0.22	U	49	0.22	pg/L	1	0.00	8290A
1,2,3,7,8-PeCDF	0.15	U	49	0.15	pg/L	0.03	0.00	8290A
2,3,4,7,8-PeCDF	0.16	U	49	0.16	pg/L	0.3	0.00	8290A
1,2,3,4,7,8-HxCDD	0.14	U	49	0.14	pg/L	0.1	0.00	8290A
1,2,3,6,7,8-HxCDD	0.45	U	49	0.45	pg/L	0.1	0.00	8290A
1,2,3,7,8,9-HxCDD	0.11	U	49	0.11	pg/L	0.1	0.00	8290A
1,2,3,4,7,8-HxCDF	**0.70**	**J q B**	49	0.14	pg/L	0.1	**0.070**	8290A
1,2,3,6,7,8-HxCDF	**0.43**	**J**	49	0.12	pg/L	0.1	**0.043**	8290A
1,2,3,7,8,9-HxCDF	**0.40**	**J**	49	0.14	pg/L	0.1	**0.040**	8290A
2,3,4,6,7,8-HxCDF	0.13	U	49	0.13	pg/L	0.1	0.00	8290A
1,2,3,4,6,7,8-HpCDD	**1.2**	**J B**	49	0.19	pg/L	0.01	**0.012**	8290A
1,2,3,4,6,7,8-HpCDF	**1.9**	**J B**	49	0.12	pg/L	0.01	**0.019**	8290A
1,2,3,4,7,8,9-HpCDF	**0.62**	**J**	49	0.14	pg/L	0.01	**0.0062**	8290A
OCDD	**8.8**	**J B**	98	0.19	pg/L	0.0003	**0.0026**	8290A
OCDF	**3.2**	**J B**	98	0.18	pg/L	0.0003	**0.00096**	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-202L	PCB-3L	PCB-118L	PCB-126L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)
680-96525-1	NE-B-2_SS	31	49	77	77	60	35	76	87
680-96525-3	NE-B-3_SS	46	76	86	88	67	52	87	92
680-96525-6	NE-B-1_SS	26	40	57	57	51	32	59	72
MB 320-32277/1-A	Method Blank	44	56	72	71	67	45	73	80
MB 320-32864/1-A	Method Blank	38	55	75	73	73	43	74	80

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-206L	PCB-169L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(5-145)	(5-145)	(10-145)	(5-145)	(10-145)	(10-145)
680-96525-1	NE-B-2_SS	82	109	64	38	47	34	99	93
680-96525-3	NE-B-3_SS	82	117	80	58	59	52	100	98
680-96525-6	NE-B-1_SS	80	99	50	32	37	28	87	83
MB 320-32277/1-A	Method Blank	87	97	59	56	50	44	85	82
MB 320-32864/1-A	Method Blank	91	90	65	46	65	46	83	82

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)	(10-145)
680-96525-1	NE-B-2_SS	76	78	80	77	30	41	82	82
680-96525-3	NE-B-3_SS	76	80	87	80	40	58	91	92
680-96525-6	NE-B-1_SS	75	76	61	71	26	33	61	63
MB 320-32277/1-A	Method Blank	85	76	73	84	40	52	72	71
MB 320-32864/1-A	Method Blank	88	83	75	87	35	50	75	75

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)
680-96525-1	NE-B-2_SS	84	51
680-96525-3	NE-B-3_SS	85	63
680-96525-6	NE-B-1_SS	81	39
MB 320-32277/1-A	Method Blank	86	51
MB 320-32864/1-A	Method Blank	90	58

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-202L = PCB-202L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-206L = PCB-206L
PCB-169L = PCB-169L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L

PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-32277/2-A	Lab Control Sample	39	51	82	83	38	84	90	67
LCS 320-32864/2-A	Lab Control Sample	32	39	45	45	36	45	52	46

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-32277/2-A	Lab Control Sample	86	85	54	45	55	56	77	76
LCS 320-32864/2-A	Lab Control Sample	61	63	40	34	39 *	32	55	52

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-32277/2-A	Lab Control Sample	83	74	85	79	30	51	70	70
LCS 320-32864/2-A	Lab Control Sample	63	56	47	58	31	33 *	42	45

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-205L	PCB-155L						
Lab Sample ID	Client Sample ID	(40-145)	(40-145)						
LCS 320-32277/2-A	Lab Control Sample	82	50						
LCS 320-32864/2-A	Lab Control Sample	62	35 *						

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L

PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-1L (5-145)	PCB-3L (5-145)	PCB-4L (5-145)	PCB-15L (5-145)	PCB-19L (5-145)	PCB-37L (5-145)	PCB-54L (5-145)	PCB-77L (10-145)
680-96525-9	RINSATE	45	53	52	66	56	65	48	73

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-81L (10-145)	PCB-104L (10-145)	PCB-105L (10-145)	PCB-114L (10-145)	PCB-118L (10-145)	PCB-123L (10-145)	PCB-126L (10-145)	PCB-155L (10-145)
680-96525-9	RINSATE	73	54	72	72	72	71	72	61

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	CB-156L/15 (10-145)	PCB-167L (10-145)	PCB-169L (10-145)	PCB-188L (10-145)	PCB-189L (10-145)	PCB-202L (10-145)	PCB-205L (10-145)	PCB-206L (10-145)
680-96525-9	RINSATE	81	80	76	66	74	77	84	82

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-208L (10-145)	PCB-209L (10-145)						
680-96525-9	RINSATE	86	80						

Surrogate Legend

PCB-1L = PCB-1L
PCB-3L = PCB-3L
PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-19L = PCB-19L
PCB-37L = PCB-37L
PCB-54L = PCB-54L
PCB-77L = PCB-77L
PCB-81L = PCB-81L
PCB-104L = PCB-104L
PCB-105L = PCB-105L
PCB-114L = PCB-114L
PCB-118L = PCB-118L
PCB-123L = PCB-123L
PCB-126L = PCB-126L
PCB-155L = PCB-155L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-169L = PCB-169L
PCB-188L = PCB-188L
PCB-189L = PCB-189L
PCB-202L = PCB-202L
PCB-205L = PCB-205L
PCB-206L = PCB-206L
PCB-208L = PCB-208L
PCB-209L = PCB-209L

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96525-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDD2 (40-135)	TCDD (40-135)	PeCDD (40-135)	HpCDF1 (40-135)	PeCDF1 (40-135)	TCDF (40-135)	HpCDD (40-135)	OCDD (40-135)
680-96525-3	NE-B-3_SS	91	91	85	97	85		107	90
680-96525-3 - RA	NE-B-3_SS						91		
LCS 320-32264/2-A	Lab Control Sample	95	98	95	94	95	91	98	95
MB 320-32264/1-A	Method Blank	94	96	95	95	94	90	104	99

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	HxCDF1 (40-135)
680-96525-3	NE-B-3_SS	87
680-96525-3 - RA	NE-B-3_SS	
LCS 320-32264/2-A	Lab Control Sample	89
MB 320-32264/1-A	Method Blank	87

Surrogate Legend

HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
TCDF = 13C-2,3,7,8-TCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF1 (40-135)	HxCDD2 (40-135)	HxCDF1 (40-135)	HpCDD (40-135)	HpCDF1 (40-135)
680-96525-9	RINSATE	84	87	87	87	94	86	86	89
LCS 320-31992/2-A	Lab Control Sample	86	88	89	89	91	87	90	91
MB 320-31992/1-A	Method Blank	85	88	87	87	93	88	86	88

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OCDD (40-135)
680-96525-9	RINSATE	84
LCS 320-31992/2-A	Lab Control Sample	93
MB 320-31992/1-A	Method Blank	87

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
OCDD = 13C-OCDD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 680-96723-1
Client Project/Site: TIMET

For:
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Kathryn Smith

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2/13/2014 4:09:57 PM

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

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

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

Job ID: 680-96723-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: GEI Consultants, Inc.

Project: TIMET

Report Number: 680-96723-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 12/04/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 4.9º C and 5.1º C.

Method 8290 was canceled for sample RINSATE (680-96723-14) due do a spiking error in the batch.

SEMIVOLATILE ORGANIC COMPOUNDS (SOLID)

Samples DD-B-4_SS (680-96723-6) and DD-B-9_SS (680-96723-8) were analyzed for Semivolatile Organic Compounds (Solid) in accordance with EPA SW846 Method 8270D. The samples were prepared on 12/16/2013 and analyzed on 12/26/2013.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (AQUEOUS)

Sample RINSATE (680-96723-14) was analyzed for Semivolatile Organic Compounds (Aqueous) in accordance with EPA SW846 Method 8270D. The samples were prepared on 12/05/2013 and analyzed on 01/11/2014.

Phenol-d5 (Surr) failed the surrogate recovery criteria high for MB 160-89913/1-A. Phenol-d5 (Surr) failed the surrogate recovery criteria high for LCS 160-89913/2-A. Phenol-d5 (Surr) failed the surrogate recovery criteria high for LCSD 160-89913/3-A. Refer to the QC report for details.

Benzo[a]pyrene, Fluoranthene and Fluorene failed the recovery criteria high for LCS 160-89913/2-A. Benzo[a]pyrene, Fluoranthene and Fluorene failed the recovery criteria high for LCSD 160-89913/3-A.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Samples P-B-7_SS (680-96723-1), P-B-7_SS DUP (680-96723-2), P-B-5_SS (680-96723-4), DD-B-4_SS (680-96723-6), DD-B-9_SS (680-96723-8), DD-B-6_SS (680-96723-10) and P-B-4_SS (680-96723-12) were analyzed for chlorinated biphenyl congeners in accordance with epa method 1668C. The samples were prepared on 12/19/2013 and 12/30/2013 and analyzed on 02/08/2014, 02/09/2014 and 02/10/2014.

PCB-1 was detected in method blank MB 320-32277/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 320-32277/1-A at levels that

Job ID: 680-96723-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. PCB-1 was detected in method blank MB 320-32864/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 320-32864/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

PCB-105 and PCB-118 failed the recovery criteria high for the MS of sample 680-96439-11 in batch 320-34287.

PCB-118 and PCB-209 failed the recovery criteria low for the MSD of sample 680-96439-11 in batch 320-34287.

Several analytes failed the recovery criteria low for the MS of sample P-B-7_SSMS (680-96723-1) in batch 320-35735. PCB-206, PCB-208, PCB-209 and PCB-4 failed the recovery criteria high.

For the MSD of sample P-B-7_SSMSD (680-96723-1) in batch 320-35735, Several analytes failed the recovery criteria low. PCB-37 failed the recovery criteria high. Also, PCB-37 exceeded the RPD limit.

The concentration of one or more analytes associated with the following samples exceeded the instrument calibration range: DD-B-4_SS (680-96723-6). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The concentration of one or more analytes associated with the following samples exceeded the instrument calibration range: P-B-7_SS (680-96723-1), P-B-7_SS (680-96723-1 MS), P-B-7_SS (680-96723-1 MSD). These analytes have been qualified; however, the peak(s) did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The concentration of the PCB 209 analyte associated with the following sample exceeded the instrument calibration range: P-B-7_SS DUP (680-96723-2). This analyte has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Samples P-B-7_SS (680-96723-1)[10X], P-B-7_SS DUP (680-96723-2)[10X], DD-B-4_SS (680-96723-6)[10X], DD-B-9_SS (680-96723-8)[10X], DD-B-6_SS (680-96723-10)[10X] and P-B-4_SS (680-96723-12)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Sample RINSATE (680-96723-14) was analyzed for chlorinated biphenyl congeners in accordance with EPA method 1668C. The samples were prepared on 01/09/2014 and analyzed on 02/07/2014.

PCB-110/115 was detected in method blank MB 320-33524/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 320-33524/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

DIOXINS AND FURANS

Job ID: 680-96723-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Samples DD-B-4_SS (680-96723-6) and DD-B-9_SS (680-96723-8) were analyzed for dioxins and furans in accordance with EPA Method 8290A. The samples were prepared on 12/19/2013 and analyzed on 01/08/2014, 01/14/2014 and 01/25/2014.

Several analytes were detected in method blank MB 320-32264/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Sample DD-B-4_SS (680-96723-6)[30X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the dioxins and furans analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Samples P-B-7_SS (680-96723-1), P-B-7_SS DUP (680-96723-2), P-B-7_SUB (680-96723-3), P-B-5_SS (680-96723-4), P-B-5_SUB (680-96723-5), DD-B-4_SS (680-96723-6), DD-B-4_SUB (680-96723-7), DD-B-9_SS (680-96723-8), DD-B-9_SUB (680-96723-9), DD-B-6_SS (680-96723-10), DD-B-6_SUB (680-96723-11), P-B-4_SS (680-96723-12) and P-B-4_SUB (680-96723-13) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/05/2013 and 12/06/2013 and analyzed on 01/08/2014 and 01/09/2014.

Several analytes failed the recovery criteria low for the MS of sample P-B-4_SUBMS (680-96723-13) in batch 160-97291. Aluminum and Sodium failed the recovery criteria high.

Several analytes failed the recovery criteria low for the MSD of sample P-B-4_SUBMSD (680-96723-13) in batch 160-97291. Aluminum, Magnesium and Sodium failed the recovery criteria high.

Several analytes failed the recovery criteria low for the MS of sample P-B-7_SSMS (680-96723-1) in batch 160-97021. Aluminum, Calcium and Sodium failed the recovery criteria high.

Antimony and Selenium failed the recovery criteria low for the MSD of sample P-B-7_SSMSD (680-96723-1) in batch 160-97021. Several analytes failed the recovery criteria high.

Samples P-B-7_SS (680-96723-1)[5X], P-B-7_SS DUP (680-96723-2)[5X], P-B-7_SUB (680-96723-3)[5X], P-B-5_SS (680-96723-4)[5X], P-B-5_SUB (680-96723-5)[5X], DD-B-4_SS (680-96723-6)[5X], DD-B-4_SUB (680-96723-7)[5X], DD-B-9_SS (680-96723-8)[10X], DD-B-9_SS (680-96723-8)[5X], DD-B-9_SUB (680-96723-9)[10X], DD-B-9_SUB (680-96723-9)[5X], DD-B-6_SS (680-96723-10)[10X], DD-B-6_SS (680-96723-10)[5X], DD-B-6_SUB (680-96723-11)[10X], DD-B-6_SUB (680-96723-11)[5X], P-B-4_SS (680-96723-12)[10X], P-B-4_SS (680-96723-12)[5X], P-B-4_SUB (680-96723-13)[10X] and P-B-4_SUB (680-96723-13)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Sample RINSATE (680-96723-14) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 01/03/2014 and analyzed on 01/08/2014.

Zinc was detected in method blank MB 160-96025/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

Job ID: 680-96723-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

METALS (ICPMS)

Samples P-B-7_SS (680-96723-1), P-B-7_SS DUP (680-96723-2), P-B-7_SUB (680-96723-3), P-B-5_SS (680-96723-4), P-B-5_SUB (680-96723-5), DD-B-4_SS (680-96723-6), DD-B-4_SUB (680-96723-7), DD-B-9_SS (680-96723-8), DD-B-9_SUB (680-96723-9), DD-B-6_SS (680-96723-10), DD-B-6_SUB (680-96723-11), P-B-4_SS (680-96723-12) and P-B-4_SUB (680-96723-13) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 12/05/2013 and 12/06/2013 and analyzed on 12/25/2013, 12/26/2013 and 12/31/2013.

Niobium failed the recovery criteria low for the MS/MSD of sample P-B-4_SUBMS/MSD (680-96723-13) in batch 160-95495.

Niobium failed the recovery criteria low for the MS/MSD of sample P-B-7_SSMS/MSD (680-96723-1) in batch 160-94702.

Samples P-B-7_SS (680-96723-1)[10X], P-B-7_SS DUP (680-96723-2)[10X], P-B-7_SUB (680-96723-3)[10X], P-B-5_SS (680-96723-4)[10X], P-B-5_SUB (680-96723-5)[10X], DD-B-4_SS (680-96723-6)[10X], DD-B-4_SS (680-96723-6)[20X], DD-B-4_SUB (680-96723-7)[10X], DD-B-9_SS (680-96723-8)[10X], DD-B-9_SUB (680-96723-9)[10X], DD-B-6_SS (680-96723-10)[10X], DD-B-6_SUB (680-96723-11)[10X], P-B-4_SS (680-96723-12)[10X] and P-B-4_SUB (680-96723-13)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Sample RINSATE (680-96723-14) was analyzed for Metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 01/03/2014 and analyzed on 01/09/2014.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample RINSATE (680-96723-14) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 12/06/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples P-B-7_SS (680-96723-1), P-B-7_SS DUP (680-96723-2), P-B-7_SUB (680-96723-3), P-B-5_SS (680-96723-4), P-B-5_SUB (680-96723-5), DD-B-4_SS (680-96723-6), DD-B-4_SUB (680-96723-7), DD-B-9_SS (680-96723-8), DD-B-9_SUB (680-96723-9), DD-B-6_SS (680-96723-10), DD-B-6_SUB (680-96723-11), P-B-4_SS (680-96723-12) and P-B-4_SUB (680-96723-13) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 12/09/2013 and analyzed on 12/11/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

ANIONS BY IC

Samples P-B-7_SS (680-96723-1), P-B-7_SS DUP (680-96723-2), P-B-7_SUB (680-96723-3), P-B-5_SS (680-96723-4), P-B-5_SUB (680-96723-5), DD-B-4_SS (680-96723-6), DD-B-4_SUB (680-96723-7), DD-B-9_SS (680-96723-8), DD-B-9_SUB (680-96723-9), DD-B-6_SS (680-96723-10), DD-B-6_SUB (680-96723-11), P-B-4_SS (680-96723-12) and P-B-4_SUB (680-96723-13) were analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were leached on 12/30/2013 and analyzed on 01/08/2014.

These samples were prepped outside the 28 day hold: DD-B-4_SS (680-96723-6), DD-B-4_SUB (680-96723-7), DD-B-6_SS (680-96723-10), DD-B-6_SUB (680-96723-11), DD-B-9_SS (680-96723-8), DD-B-9_SUB (680-96723-9), P-B-4_SS (680-96723-12),

Job ID: 680-96723-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

P-B-4_SUB (680-96723-13), P-B-5_SS (680-96723-4), P-B-5_SUB (680-96723-5), P-B-7_SS (680-96723-1), P-B-7_SS (680-96723-1 MS), P-B-7_SS (680-96723-1 MSD), P-B-7_SS DUP (680-96723-2), P-B-7_SUB (680-96723-3)

Samples P-B-7_SS (680-96723-1)[20X], P-B-7_SS (680-96723-1)[50X], P-B-7_SS DUP (680-96723-2)[20X], P-B-7_SS DUP (680-96723-2)[50X], P-B-7_SUB (680-96723-3)[20X], P-B-5_SS (680-96723-4)[20X], P-B-5_SUB (680-96723-5)[20X], DD-B-4_SS (680-96723-6)[20X], DD-B-4_SUB (680-96723-7)[20X], DD-B-9_SS (680-96723-8)[20X], DD-B-9_SS (680-96723-8)[200X], DD-B-9_SUB (680-96723-9)[20X], DD-B-6_SS (680-96723-10)[20X], DD-B-6_SS (680-96723-10)[50X], DD-B-6_SUB (680-96723-11)[20X], P-B-4_SS (680-96723-12)[20X], P-B-4_SS (680-96723-12)[50X], P-B-4_SUB (680-96723-13)[100X] and P-B-4_SUB (680-96723-13)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

ANIONS BY IC

Sample RINSATE (680-96723-14) was analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were analyzed on 12/04/2013.

No difficulties were encountered during the Anions analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/MOISTURE

Samples P-B-7_SS (680-96723-1), P-B-7_SS DUP (680-96723-2), P-B-7_SUB (680-96723-3), P-B-5_SS (680-96723-4), P-B-5_SUB (680-96723-5), DD-B-4_SS (680-96723-6), DD-B-4_SUB (680-96723-7), DD-B-9_SS (680-96723-8), DD-B-9_SUB (680-96723-9), DD-B-6_SS (680-96723-10), DD-B-6_SUB (680-96723-11), P-B-4_SS (680-96723-12) and P-B-4_SUB (680-96723-13) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 12/05/2013.

No difficulties were encountered during the % solids/moisture analysis.

All quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Samples DD-B-4_SS (680-96723-6), DD-B-4_SUB (680-96723-7), DD-B-9_SS (680-96723-8) and DD-B-9_SUB (680-96723-9) were analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were leached on 12/05/2013, prepared on 12/09/2013 and analyzed on 12/10/2013.

No difficulties were encountered during the radioactivity analysis.

All quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Sample RINSATE (680-96723-14) was analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were prepared on 12/31/2013 and analyzed on 01/02/2014.

No difficulties were encountered during the gross alpha & beta analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226 AND OTHER GAMMA EMITTERS (GS)

Samples DD-B-4_SS (680-96723-6), DD-B-4_SUB (680-96723-7), DD-B-9_SS (680-96723-8) and DD-B-9_SUB (680-96723-9) were analyzed for Radium-226 and other gamma emitters (GS) in accordance with EPA Method 901.1. The samples were leached on 12/05/2013, prepared on 12/12/2013 and analyzed on 01/03/2014.

No difficulties were encountered during the radium-226 analysis.

Job ID: 680-96723-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All quality control parameters were within the acceptance limits.

GAMMA EMITTERS

Sample RINSATE (680-96723-14) was analyzed for Gamma Emitters in accordance with 901.1. The samples were prepared on 12/23/2013 and analyzed on 01/11/2014.

No difficulties were encountered during the Gamma Emitters analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226 (GFPC)

Samples DD-B-4_SS (680-96723-6), DD-B-4_SUB (680-96723-7), DD-B-9_SS (680-96723-8) and DD-B-9_SUB (680-96723-9) were analyzed for Radium-226 (GFPC) in accordance with EPA Method 903.0. The samples were leached on 12/05/2013, prepared on 12/09/2013 and analyzed on 01/01/2014.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226

Sample RINSATE (680-96723-14) was analyzed for Radium-226 in accordance with EPA Method 903.0. The samples were prepared on 12/05/2013 and analyzed on 12/27/2013.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Samples DD-B-4_SS (680-96723-6), DD-B-4_SUB (680-96723-7), DD-B-9_SS (680-96723-8) and DD-B-9_SUB (680-96723-9) were analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were leached on 12/05/2013, prepared on 12/09/2013 and analyzed on 12/30/2013.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Sample RINSATE (680-96723-14) was analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were prepared on 12/05/2013 and analyzed on 12/24/2013.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC THORIUM

Samples DD-B-4_SS (680-96723-6), DD-B-4_SUB (680-96723-7), DD-B-9_SS (680-96723-8) and DD-B-9_SUB (680-96723-9) were analyzed for Isotopic Thorium in accordance with A01R_Th. The samples were leached on 12/05/2013, prepared on 01/22/2014 and analyzed on 01/24/2014.

Thorium-230 was detected in method blank MB 160-100377/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the thorium analysis.

Job ID: 680-96723-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All other quality control parameters were within the acceptance limits.

THORIUM

Sample RINSATE (680-96723-14) was analyzed for Thorium in accordance with A01R_Th. The samples were prepared on 01/22/2014 and analyzed on 01/23/2014.

No difficulties were encountered during the Thorium analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC URANIUM

Samples DD-B-4_SS (680-96723-6), DD-B-4_SUB (680-96723-7), DD-B-9_SS (680-96723-8) and DD-B-9_SUB (680-96723-9) were analyzed for Isotopic Uranium in accordance with A01R_U. The samples were leached on 12/05/2013, prepared on 01/06/2014 and analyzed on 01/16/2014 and 01/17/2014.

No difficulties were encountered during the uranium analysis.

All quality control parameters were within the acceptance limits.

URANIUM

Sample RINSATE (680-96723-14) was analyzed for Uranium in accordance with A01R_U. The samples were prepared on 01/09/2014 and analyzed on 01/16/2014.

No difficulties were encountered during the Uranium analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-96723-1	P-B-7_SS	Solid	12/02/13 10:15	12/04/13 09:20
680-96723-2	P-B-7_SS DUP	Solid	12/02/13 10:15	12/04/13 09:20
680-96723-3	P-B-7_SUB	Solid	12/02/13 11:20	12/04/13 09:20
680-96723-4	P-B-5_SS	Solid	12/02/13 12:55	12/04/13 09:20
680-96723-5	P-B-5_SUB	Solid	12/02/13 13:30	12/04/13 09:20
680-96723-6	DD-B-4_SS	Solid	12/02/13 14:30	12/04/13 09:20
680-96723-7	DD-B-4_SUB	Solid	12/02/13 15:11	12/04/13 09:20
680-96723-8	DD-B-9_SS	Solid	12/03/13 08:00	12/04/13 09:20
680-96723-9	DD-B-9_SUB	Solid	12/03/13 08:50	12/04/13 09:20
680-96723-10	DD-B-6_SS	Solid	12/03/13 09:25	12/04/13 09:20
680-96723-11	DD-B-6_SUB	Solid	12/03/13 10:15	12/04/13 09:20
680-96723-12	P-B-4_SS	Solid	12/03/13 11:30	12/04/13 09:20
680-96723-13	P-B-4_SUB	Solid	12/03/13 12:30	12/04/13 09:20
680-96723-14	RINSATE	Water	12/03/13 12:30	12/04/13 09:20

Method Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
1668C	Chlorinated Biphenyl Congeners (HRGC/HRMS)	EPA	TAL SAC
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
903.0	Radium-226 (GFPC)	EPA	TAL SL
903.0	Total Alpha-Emitting Radium Isotopes by GFPC	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL

Protocol References:

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Dioxin

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.
U	Indicates the analyte was analyzed for but not detected.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
E	Result exceeded calibration range.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
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.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
*	Isotope Dilution analyte exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
F	MS/MSD Recovery and/or RPD exceeds the 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.
F1	MS and/or MSD Recovery exceeds the control limits
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.

Rad

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Tracer exceeds control limit

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
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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: P-B-7_SS
Date Collected: 12/02/13 10:15
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-1
Matrix: Solid
Percent Solids: 94.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**69**	**J B**	410	4.1	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-2	**75**	**J B**	410	4.3	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-3	**74**	**J B**	410	4.6	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-4	180	U	410	180	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-5	120	U	410	120	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-6	120	U	410	120	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-7	110	U	410	110	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-8	**170**	**J**	410	110	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-9	120	U	410	120	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-10	100	U	410	100	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-11	120	U	410	120	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-12/13	120	U	820	120	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-14	100	U	410	100	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-15	**330**	**J**	410	120	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-16	**49**	**J**	410	20	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-17	**36**	**J**	410	14	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-18/30	**100**	**J**	820	12	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-19	19	U	410	19	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-20/28	**600**	**J B**	820	15	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-21/33	**190**	**J B**	820	14	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-22	**200**	**J**	410	16	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-23	14	U	410	14	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-24	10	U	410	10	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-25	**16**	**J q**	410	14	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-26/29	**44**	**J q**	820	14	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-27	10	U	410	10	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-31	**650**	**B**	410	14	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-32	**35**	**J**	410	8.1	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-34	14	U	410	14	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-35	**26**	**J**	410	16	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-36	14	U	410	14	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-37	**520**		410	17	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-38	15	U	410	15	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-39	14	U	410	14	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-40/71	**800**	**J**	820	20	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-41	26	U	410	26	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-42	**360**	**J**	410	23	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-43	23	U	410	23	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-44/47/65	**5100**	**B**	1200	19	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-45	23	U	410	23	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-46	24	U	410	24	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-48	**170**	**J**	410	21	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-49/69	**2300**		820	17	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-50/53	**160**	**J**	820	19	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-51	19	U	410	19	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-52	**15000**	**B**	410	21	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-54	7.2	U	410	7.2	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-55	87	U	410	87	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-56	**2000**		410	94	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: P-B-7_SS
Date Collected: 12/02/13 10:15
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-1
Matrix: Solid
Percent Solids: 94.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	85	U	410	85	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-58	86	U	410	86	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-59/62/75	15	U	1200	15	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-60	**1100**		410	90	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-61/70/74/76	**19000**	**B**	1600	84	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-63	**200**	**J**	410	80	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-64	**1900**		410	14	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-66	**6600**		410	95	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-67	80	U	410	80	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-68	76	U	410	76	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-72	82	U	410	82	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-73	16	U	410	16	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-77	**600**	**G**	96	96	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-78	97	U	410	97	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-79	**490**	**q**	410	84	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-80	80	U	410	80	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-81	93	U G	93	93	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-82	**4500**	**G**	700	700	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-83	**1300**	**G**	760	760	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-84	**7000**	**G**	640	640	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-85/116/117	**6200**		1200	470	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-86/87/97/108/119/125	**24000**	**B**	2500	480	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-88/91	**3000**		820	540	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-89	600	U G	600	600	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-90/101/113	**33000**	**B**	1200	490	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-92	**5100**	**G**	570	570	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-93/100	540	U	820	540	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-107/124	**1600**		820	440	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-94	570	U G	570	570	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-95	**19000**	**B G**	530	530	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-96	**51**	**J**	410	4.0	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-98/102	500	U	820	500	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-99	**18000**	**B G**	570	570	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-103	500	U G	500	500	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-104	4.8	U	410	4.8	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-105	**24000**	**G**	480	480	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-106	480	U G	480	480	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-110/115	**51000**	**B**	820	430	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-109	**2700**		410	410	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-111	390	U	410	390	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-112	380	U	410	380	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-114	**710**	**G**	470	470	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-118	**50000**	**E B G**	440	440	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-120	420	U G	420	420	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-121	390	U	410	390	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-122	490	U G	490	490	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-123	**490**	**q G**	450	450	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-126	550	U G	550	550	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-127	480	U G	480	480	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10

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Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: P-B-7_SS
Date Collected: 12/02/13 10:15
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-1
Matrix: Solid
Percent Solids: 94.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-128/166	**8800**		820	97	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-129/138/163	**45000**	**B**	1200	100	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-130	**2400**		410	130	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-131	**440**		410	120	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-132	**11000**		410	120	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-133	**290**	**J**	410	120	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-134/143	**1400**		820	120	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-135/151	**4700**		820	100	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-136	**2000**		410	75	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-137	**2500**		410	100	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-139/140	**580**	**J**	820	98	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-141	**4700**		410	110	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-142	110	U	410	110	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-144	**830**		410	100	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-145	73	U	410	73	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-146	**3700**		410	110	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-147/149	**17000**	**B**	820	100	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-148	100	U	410	100	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-150	68	U	410	68	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-152	70	U	410	70	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-153/168	**25000**	**B**	820	85	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-154	**170**	**J**	410	90	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-155	81	U	410	81	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-156/157	**9100**		82	60	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-158	**4900**		410	78	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-159	48	U	410	48	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-160	89	U	410	89	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-161	78	U	410	78	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-162	47	U	410	47	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-164	**2400**		410	86	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-165	90	U	410	90	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-167	**2400**	**G**	43	43	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-169	53	U G	53	53	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-170	**5600**		410	13	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-171/173	**1300**		820	12	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-172	**600**		410	13	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-174	**2700**		410	13	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-175	**100**	**J**	410	9.0	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-176	**200**	**J**	410	6.0	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-177	**1600**		410	13	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-178	**300**	**J**	410	9.4	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-179	**500**		410	6.6	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-180/193	**7200**		820	10	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-181	**76**	**J**	410	10	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-182	**26**	**J**	410	8.4	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-183	**1400**		410	9.3	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-184	**14**	**J**	410	6.7	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-185	**98**	**J q**	410	11	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-186	6.4	U	410	6.4	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10

Client Sample ID: P-B-7_SS
Date Collected: 12/02/13 10:15
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-1
Matrix: Solid
Percent Solids: 94.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-187	1900		410	8.7	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-188	11	J	410	7.0	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-189	250		41	10	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-190	890		410	9.4	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-191	170	J	410	9.1	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-192	9.5	U	410	9.5	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-194	740		410	11	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-195	200	J	410	10	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-196	310	J	410	7.3	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-197	93	J	410	4.9	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-198/199	580	J	820	7.6	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-200	47	J	410	5.0	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-201	95	J q	410	4.9	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-202	88	J	410	6.3	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-203	360	J	410	6.8	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-204	25	J	410	5.1	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-205	45	J q	410	7.2	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-206	620		410	11	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-207	860		410	8.5	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-208	580		410	11	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
PCB-209	58000	E B	410	9.8	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
Total Monochlorobiphenyls	220	J B	4100	4.3	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
Total Dichlorobiphenyls	510	J	4100	120	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
Total Trichlorobiphenyls	2500	J B q	4100	14	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
Total Tetrachlorobiphenyls	55000	B q	4100	53	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
Total Pentachlorobiphenyls	250000	B q	4100	480	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
Total Hexachlorobiphenyls	150000	B	4100	89	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
Total Heptachlorobiphenyls	25000	q	4100	9.6	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
Total Octachlorobiphenyls	2600	J q	4100	6.9	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
Total Nonachlorobiphenyls	2100	J	4100	10	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10
Polychlorinated biphenyls, Total	550000	B q	4100	79	pg/g	☼	12/30/13 13:50	02/08/14 12:19	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*41*		*5 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-15L	*55*		*5 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-123L	*84*		*10 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-114L	*86*		*10 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-202L	*80*		*10 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-3L	*46*		*5 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-118L	*85*		*10 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-126L	*92*		*10 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-206L	*99*		*10 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-169L	*100*		*10 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-37L	*70*		*5 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-19L	*48*		*5 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-188L	*73*		*10 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-54L	*52*		*5 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-156L/157L	*91*		*10 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-167L	*96*		*10 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*
PCB-209L	*94*		*10 - 145*	*12/30/13 13:50*	*02/08/14 12:19*	*10*

Client Sample ID: P-B-7_SS
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Lab Sample ID: 680-96723-1
Matrix: Solid
Percent Solids: 94.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-189L	90		10 - 145	12/30/13 13:50	02/08/14 12:19	10
PCB-105L	88		10 - 145	12/30/13 13:50	02/08/14 12:19	10
PCB-208L	90		10 - 145	12/30/13 13:50	02/08/14 12:19	10
PCB-1L	37		5 - 145	12/30/13 13:50	02/08/14 12:19	10
PCB-104L	51		10 - 145	12/30/13 13:50	02/08/14 12:19	10
PCB-81L	85		10 - 145	12/30/13 13:50	02/08/14 12:19	10
PCB-77L	88		10 - 145	12/30/13 13:50	02/08/14 12:19	10
PCB-205L	97		10 - 145	12/30/13 13:50	02/08/14 12:19	10
PCB-155L	64		10 - 145	12/30/13 13:50	02/08/14 12:19	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	76		5 - 145	12/30/13 13:50	02/08/14 12:19	10
PCB-111L	79		10 - 145	12/30/13 13:50	02/08/14 12:19	10
PCB-178L	86		10 - 145	12/30/13 13:50	02/08/14 12:19	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		98	69	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Antimony	3.1	U	4.9	3.1	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Barium	**220**		25	1.2	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Beryllium	0.83	U	2.5	0.83	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Cadmium	0.49	U	2.5	0.49	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Calcium	**29000**		1200	65	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Chromium	**14**		4.9	1.5	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Cobalt	**11**	**J**	25	4.6	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Copper	**21**		12	3.6	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Iron	**18000**		49	15	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Lead	**18**		4.9	0.84	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Magnesium	**11000**		490	41	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Manganese	**890**		4.9	0.76	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Nickel	**18**	**J**	20	1.1	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Potassium	**2200**	**J**	2500	1700	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Selenium	1.4	U	7.4	1.4	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Silver	1.1	U	4.9	1.1	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Sodium	**2000**		490	230	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Titanium	**2000**		9.8	3.1	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Vanadium	**52**		25	6.2	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5
Zinc	**45**		25	9.7	mg/Kg	☼	12/05/13 10:06	01/08/14 14:33	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.0**	**J**	4.9	1.3	mg/Kg	☼	12/05/13 09:53	12/25/13 05:18	10
Niobium	**4.0**	**J**	12	1.9	mg/Kg	☼	12/05/13 09:53	12/25/13 05:18	10
Thallium	0.75	U	2.5	0.75	mg/Kg	☼	12/05/13 09:53	12/25/13 05:18	10
Uranium	**1.1**		0.49	0.098	mg/Kg	☼	12/05/13 09:53	12/25/13 05:18	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.032	0.011	mg/Kg	☼	12/09/13 07:33	12/11/13 12:05	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: P-B-7_SS

Lab Sample ID: 680-96723-1

Date Collected: 12/02/13 10:15

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 94.3

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	19	H	4.2	0.85	mg/Kg	☼		01/08/14 03:23	20
Sulfate	1000	H	110	11	mg/Kg	☼		01/08/14 03:23	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100	H	110	11	mg/Kg	☼		01/08/14 03:39	50

Client Sample ID: P-B-7_SS DUP

Lab Sample ID: 680-96723-2

Date Collected: 12/02/13 10:15

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 93.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	110	J B	430	1.9	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-2	110	J B	430	2.0	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-3	110	J B	430	2.1	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-4	69	U	430	69	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-5	41	U	430	41	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-6	110	J	430	41	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-7	38	U	430	38	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-8	200	J	430	40	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-9	43	U	430	43	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-10	50	U	430	50	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-11	63	J	430	42	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-12/13	190	J	850	43	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-14	36	U	430	36	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-15	580		430	49	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-16	70	J	430	6.0	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-17	45	J	430	4.2	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-18/30	150	J	850	3.6	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-19	10	J q	430	5.0	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-20/28	930	B	850	18	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-21/33	220	J B	850	17	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-22	270	J	430	19	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-23	16	U	430	16	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-24	3.1	U	430	3.1	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-25	41	J	430	17	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-26/29	87	J	850	17	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-27	10	J q	430	3.2	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-31	870	B	430	17	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-32	48	J	430	2.5	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-34	17	U	430	17	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-35	54	J	430	19	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-36	100	J	430	17	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-37	1100		430	22	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-38	18	U	430	18	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-39	17	U	430	17	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-40/71	1300		850	22	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-41	73	J	430	29	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-42	620		430	24	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: P-B-7_SS DUP
Date Collected: 12/02/13 10:15
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-2
Matrix: Solid
Percent Solids: 93.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-43	64	J	430	25	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-44/47/65	8900	B	1300	21	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-45	110	J	430	25	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-46	40	J	430	26	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-48	300	J	430	22	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-49/69	4200		850	18	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-50/53	320	J	850	21	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-51	29	J	430	21	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-52	26000	B	430	23	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-54	3.1	U	430	3.1	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-55	84	U	430	84	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-56	2800		430	91	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-57	83	U	430	83	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-58	850		430	83	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-59/62/75	120	J	1300	16	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-60	1500		430	88	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-61/70/74/76	25000	B	1700	82	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-63	250	J	430	78	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-64	3200		430	15	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-66	9200		430	93	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-67	77	U	430	77	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-68	74	U	430	74	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-72	80	U	430	80	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-73	36	J	430	17	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-77	1300	G	100	100	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-78	270	J	430	94	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-79	300	J	430	81	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-80	78	U	430	78	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-81	99	U G	99	99	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-82	7100	G	820	820	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-83	2600	G	890	890	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-84	12000	G	740	740	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-85/116/117	11000		1300	550	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-86/87/97/108/119/125	39000	B	2600	560	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-88/91	5300		850	620	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-89	700	U G	700	700	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-90/101/113	55000	B	1300	570	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-92	8300	G	660	660	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-93/100	630	U	850	630	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-107/124	2400		850	520	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-94	660	U G	660	660	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-95	33000	G B	620	620	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-96	110	J	430	2.8	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-98/102	800	J	850	580	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-99	31000	G B	660	660	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-103	580	U G	580	580	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-104	3.3	U	430	3.3	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-105	38000	G	570	570	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-106	560	U G	560	560	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: P-B-7_SS DUP
Date Collected: 12/02/13 10:15
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-2
Matrix: Solid
Percent Solids: 93.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-110/115	81000	B	850	500	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-109	3800	G	480	480	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-111	460	U G	460	460	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-112	440	U G	440	440	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-114	1100	G	530	530	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-118	70000	E G B	500	500	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-120	490	U G	490	490	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-121	460	U G	460	460	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-122	580	G	570	570	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-123	920	G	530	530	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-126	590	U G	590	590	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-127	560	U G	560	560	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-128/166	14000		850	170	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-129/138/163	72000	B	1300	180	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-130	4200		430	230	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-131	750		430	220	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-132	19000		430	210	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-133	490		430	210	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-134/143	2600		850	210	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-135/151	7900		850	190	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-136	3500		430	130	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-137	4300		430	180	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-139/140	1000		850	180	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-141	8200		430	200	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-142	200	U	430	200	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-144	1500		430	180	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-145	130	U	430	130	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-146	6300		430	200	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-147/149	29000	B	850	180	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-148	180	U	430	180	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-150	120	U	430	120	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-152	120	U	430	120	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-153/168	41000	B	850	150	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-154	310	J	430	160	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-155	160	U	430	160	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-156/157	13000		85	83	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-158	8000		430	140	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-159	71	U	430	71	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-160	160	U	430	160	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-161	140	U	430	140	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-162	300	J	430	69	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-164	3800		430	150	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-165	160	U	430	160	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-167	3600	G	63	63	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-169	81	U G	81	81	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-170	8900		430	12	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-171/173	2200		850	11	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-172	950		430	11	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-174	4400		430	11	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10

Client Sample ID: P-B-7_SS DUP
Date Collected: 12/02/13 10:15
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-2
Matrix: Solid
Percent Solids: 93.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-175	200	J	430	6.1	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-176	380	J	430	4.1	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-177	2900		430	11	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-178	550		430	6.4	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-179	930		430	4.5	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-180/193	12000		850	8.9	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-181	130	J q	430	9.1	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-182	55	J	430	5.7	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-183	2400		430	8.2	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-184	41	J	430	4.6	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-185	260	J	430	9.9	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-186	4.3	U	430	4.3	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-187	3400		430	5.9	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-188	29	J	430	4.7	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-189	390		43	4.6	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-190	1400		430	8.3	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-191	310	J	430	8.0	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-192	8.4	U	430	8.4	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-194	1300		430	8.3	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-195	400	J	430	7.7	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-196	610		430	3.8	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-197	240	J	430	2.6	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-198/199	1300		850	4.0	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-200	100	J	430	2.6	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-201	270	J	430	2.6	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-202	220	J	430	3.0	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-203	720		430	3.5	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-204	68	J	430	2.7	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-205	110	J	430	5.9	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-206	1700		430	8.3	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-207	2200		430	6.0	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-208	1500		430	7.0	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
PCB-209	140000	E B	430	14	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
Total Monochlorobiphenyls	320	J B	4300	2.0	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
Total Dichlorobiphenyls	1100	J	4300	45	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
Total Trichlorobiphenyls	4000	J q B	4300	13	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
Total Tetrachlorobiphenyls	87000	B	4300	53	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
Total Pentachlorobiphenyls	400000	B	4300	550	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
Total Hexachlorobiphenyls	240000	B	4300	160	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
Total Heptachlorobiphenyls	42000	q	4300	7.6	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
Total Octachlorobiphenyls	5300		4300	4.2	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
Total Nonachlorobiphenyls	5400		4300	7.1	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10
Polychlorinated biphenyls, Total	930000	q B	4300	85	pg/g	☼	12/30/13 13:50	02/09/14 01:15	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*24*		*5 - 145*	*12/30/13 13:50*	*02/09/14 01:15*	*10*
PCB-15L	*24*		*5 - 145*	*12/30/13 13:50*	*02/09/14 01:15*	*10*
PCB-123L	*24*		*10 - 145*	*12/30/13 13:50*	*02/09/14 01:15*	*10*
PCB-114L	*25*		*10 - 145*	*12/30/13 13:50*	*02/09/14 01:15*	*10*
PCB-202L	*24*		*10 - 145*	*12/30/13 13:50*	*02/09/14 01:15*	*10*

Client Sample ID: P-B-7_SS DUP
Date Collected: 12/02/13 10:15
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-2
Matrix: Solid
Percent Solids: 93.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-3L	28		5 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-118L	25		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-126L	28		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-206L	26		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-169L	27		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-37L	22		5 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-19L	21		5 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-188L	22		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-54L	20		5 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-156L/157L	26		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-167L	25		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-209L	26		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-189L	25		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-105L	25		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-208L	27		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-1L	27		5 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-104L	16		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-81L	26		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-77L	26		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-205L	26		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-155L	17		10 - 145	12/30/13 13:50	02/09/14 01:15	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	53		5 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-111L	74		10 - 145	12/30/13 13:50	02/09/14 01:15	10
PCB-178L	79		10 - 145	12/30/13 13:50	02/09/14 01:15	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		100	73	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Antimony	3.3	U	5.2	3.3	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Barium	**300**		26	1.3	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Beryllium	0.88	U	2.6	0.88	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Cadmium	0.52	U	2.6	0.52	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Calcium	**30000**		1300	69	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Chromium	**21**		5.2	1.6	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Cobalt	**10**	**J**	26	4.9	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Copper	**19**		13	3.8	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Iron	**17000**		52	15	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Lead	**18**		5.2	0.89	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Magnesium	**11000**		520	43	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Manganese	**890**		5.2	0.80	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Nickel	**31**		21	1.2	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Potassium	**2200**	**J**	2600	1800	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Selenium	1.5	U	7.8	1.5	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Silver	1.2	U	5.2	1.2	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Sodium	**2200**		520	240	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Titanium	**2000**		10	3.3	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Vanadium	**52**		26	6.5	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5
Zinc	**43**		26	10	mg/Kg	☼	12/05/13 10:06	01/08/14 14:48	5

Client Sample ID: P-B-7_SS DUP

Lab Sample ID: 680-96723-2
Date Collected: 12/02/13 10:15
Matrix: Solid
Date Received: 12/04/13 09:20
Percent Solids: 93.5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	J	5.2	1.4	mg/Kg	☼	12/05/13 09:53	12/25/13 05:45	10
Niobium	3.0	J	13	2.0	mg/Kg	☼	12/05/13 09:53	12/25/13 05:45	10
Thallium	0.79	U	2.6	0.79	mg/Kg	☼	12/05/13 09:53	12/25/13 05:45	10
Uranium	1.1		0.52	0.10	mg/Kg	☼	12/05/13 09:53	12/25/13 05:45	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	J	0.035	0.012	mg/Kg	☼	12/09/13 07:33	12/11/13 12:15	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	26	H	4.3	0.86	mg/Kg	☼		01/08/14 05:51	20
Sulfate	1300	H	110	11	mg/Kg	☼		01/08/14 05:51	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500	H	110	11	mg/Kg	☼		01/08/14 15:09	50

Client Sample ID: P-B-7_SUB

Lab Sample ID: 680-96723-3
Date Collected: 12/02/13 11:20
Matrix: Solid
Date Received: 12/04/13 09:20
Percent Solids: 95.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		93	65	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Antimony	3.0	U	4.7	3.0	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Barium	180		23	1.2	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Beryllium	0.79	U	2.3	0.79	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Cadmium	0.47	U	2.3	0.47	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Calcium	22000		1200	62	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Chromium	12		4.7	1.4	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Cobalt	7.6	J	23	4.4	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Copper	17		12	3.4	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Iron	16000		47	14	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Lead	8.9		4.7	0.80	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Magnesium	9500		470	39	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Manganese	380		4.7	0.72	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Nickel	16	J	19	1.0	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Potassium	2300		2300	1600	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Selenium	1.3	U	7.0	1.3	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Silver	1.1	U	4.7	1.1	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Sodium	890		470	220	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Titanium	880		9.3	2.9	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Vanadium	41		23	5.9	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5
Zinc	37		23	9.2	mg/Kg	☼	12/05/13 10:06	01/08/14 14:52	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9	J	4.7	1.2	mg/Kg	☼	12/05/13 09:53	12/25/13 05:52	10
Niobium	1.8	U	12	1.8	mg/Kg	☼	12/05/13 09:53	12/25/13 05:52	10
Thallium	0.71	U	2.3	0.71	mg/Kg	☼	12/05/13 09:53	12/25/13 05:52	10

Client Sample ID: P-B-7_SUB
Date Collected: 12/02/13 11:20
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-3
Matrix: Solid
Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.86		0.47	0.093	mg/Kg	☼	12/05/13 09:53	12/25/13 05:52	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.032	0.011	mg/Kg	☼	12/09/13 07:33	12/11/13 12:17	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	7.6	H	0.21	0.042	mg/Kg	☼		01/08/14 06:07	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370	H	42	4.2	mg/Kg	☼		01/08/14 06:24	20
Sulfate	210	H	100	10	mg/Kg	☼		01/08/14 06:24	20

Client Sample ID: P-B-5_SS
Date Collected: 12/02/13 12:55
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-4
Matrix: Solid
Percent Solids: 93.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	3.5	J q B	42	0.95	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-2	0.94	U	42	0.94	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-3	2.1	J B	42	0.94	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-4	44	U G	44	44	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-5	7.8	U	42	7.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-6	7.8	U	42	7.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-7	7.3	U	42	7.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-8	7.6	U	42	7.6	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-9	8.3	U	42	8.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-10	26	U	42	26	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-11	8.1	U	42	8.1	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-12/13	8.2	U	85	8.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-14	6.8	U	42	6.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-15	7.9	U	42	7.9	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-16	2.9	U	42	2.9	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-17	2.1	U	42	2.1	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-18/30	1.8	U	85	1.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-19	2.8	U	42	2.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-20/28	5.9	J q B	85	1.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-21/33	2.9	J q B	85	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-22	1.5	U	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-23	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-24	1.5	U	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-25	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-26/29	1.4	U	85	1.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-27	1.5	U	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-31	4.7	J q B	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-32	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-34	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1

Client Sample ID: P-B-5_SS
Date Collected: 12/02/13 12:55
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-4
Matrix: Solid
Percent Solids: 93.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-35	1.6	U	42	1.6	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-36	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-37	**6.9**	**J**	42	1.6	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-38	1.5	U	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-39	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-40/71	**4.9**	**J q**	85	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-41	1.6	U	42	1.6	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-42	**4.7**	**J**	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-43	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-44/47/65	**17**	**J B**	130	1.1	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-45	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-46	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-48	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-49/69	**7.9**	**J**	85	1.0	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-50/53	**1.9**	**J**	85	1.1	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-51	1.1	U	42	1.1	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-52	**36**	**J B**	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-54	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-55	1.7	U	42	1.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-56	**5.3**	**J**	42	1.9	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-57	1.7	U	42	1.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-58	1.7	U	42	1.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-59/62/75	**1.1**	**J q**	130	0.89	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-60	1.8	U	42	1.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-61/70/74/76	**41**	**J B**	170	1.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-63	1.6	U	42	1.6	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-64	**11**	**J**	42	0.84	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-66	**16**	**J q**	42	1.9	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-67	1.6	U	42	1.6	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-68	1.5	U	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-72	1.6	U	42	1.6	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-73	0.95	U	42	0.95	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-77	**21**		4.2	1.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-78	1.9	U	42	1.9	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-79	1.7	U	42	1.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-80	1.6	U	42	1.6	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-81	1.8	U	4.2	1.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-82	**24**	**J**	42	5.6	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-83	6.0	U	42	6.0	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-84	**35**	**J**	42	5.0	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-85/116/117	**32**	**J**	130	3.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-86/87/97/108/119/125	**100**	**J B**	250	3.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-88/91	**16**	**J**	85	4.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-89	4.8	U	42	4.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-90/101/113	**120**	**J B**	130	3.9	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-92	**21**	**J q**	42	4.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-93/100	4.3	U	85	4.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-107/124	**7.3**	**J**	85	3.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-94	4.5	U	42	4.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: P-B-5_SS
Date Collected: 12/02/13 12:55
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-4
Matrix: Solid
Percent Solids: 93.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-95	**81**	**B**	42	4.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-96	0.75	U	42	0.75	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-98/102	4.0	U	85	4.0	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-99	**72**	**B**	42	4.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-103	3.9	U	42	3.9	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-104	0.98	U	42	0.98	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-105	**88**		4.2	3.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-106	3.8	U	42	3.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-110/115	**290**	**B**	85	3.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-109	**13**	**J**	42	3.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-111	3.1	U	42	3.1	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-112	3.0	U	42	3.0	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-114	3.6	U	4.2	3.6	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-118	**160**	**B**	4.2	3.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-120	3.3	U	42	3.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-121	3.1	U	42	3.1	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-122	3.9	U	42	3.9	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-123	3.6	U	4.2	3.6	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-126	**7.1**		4.2	3.9	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-127	3.8	U	42	3.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-128/166	**68**	**J**	85	1.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-129/138/163	**290**	**B**	130	1.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-130	**19**	**J**	42	2.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-131	**2.4**	**J**	42	2.1	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-132	**67**		42	2.0	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-133	2.0	U	42	2.0	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-134/143	**9.8**	**J**	85	2.0	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-135/151	**27**	**J**	85	1.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-136	**8.5**	**J q**	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-137	**14**	**J**	42	1.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-139/140	**3.5**	**J q**	85	1.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-141	**32**	**J**	42	1.9	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-142	1.9	U	42	1.9	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-144	**5.4**	**J**	42	1.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-145	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-146	**25**	**J**	42	1.9	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-147/149	**110**	**B**	85	1.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-148	1.7	U	42	1.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-150	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-152	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-153/168	**160**	**B**	85	1.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-154	1.5	U	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-155	1.9	U	42	1.9	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-156/157	**53**		8.5	1.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-158	**33**	**J**	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-159	1.4	U	42	1.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-160	1.5	U	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-161	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-162	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: P-B-5_SS
Date Collected: 12/02/13 12:55
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-4
Matrix: Solid
Percent Solids: 93.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-164	**18**	**J**	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-165	1.5	U	42	1.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-167	**19**		4.2	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-169	1.4	U	4.2	1.4	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-170	**61**		42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-171/173	**13**	**J**	85	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-172	**6.9**	**J q**	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-174	**28**	**J**	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-175	**1.9**	**J q**	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-176	**2.4**	**J**	42	0.86	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-177	**19**	**J**	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-178	**3.5**	**J**	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-179	**5.0**	**J**	42	0.93	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-180/193	**88**		85	1.0	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-181	1.0	U	42	1.0	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-182	1.2	U	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-183	**18**	**J**	42	0.92	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-184	**1.7**	**J**	42	0.96	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-185	**2.1**	**J q**	42	1.1	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-186	0.91	U	42	0.91	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-187	**21**	**J**	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-188	1.3	U	42	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-189	**3.4**	**J**	4.2	0.82	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-190	**7.9**	**J**	42	0.93	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-191	**2.9**	**J**	42	0.90	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-192	0.94	U	42	0.94	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-194	**14**	**J**	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-195	**4.2**	**J q**	42	1.1	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-196	**8.1**	**J q**	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-197	**3.4**	**J q**	42	0.81	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-198/199	**13**	**J**	85	1.3	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-200	**1.6**	**J**	42	0.82	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-201	**4.7**	**J**	42	0.81	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-202	**2.9**	**J**	42	1.2	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-203	**7.0**	**J**	42	1.1	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-204	**2.6**	**J**	42	0.85	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-205	**2.9**	**J**	42	0.69	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-206	**23**	**J**	42	0.94	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-207	**29**	**J**	42	0.73	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-208	**18**	**J**	42	0.91	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
PCB-209	**470**	**B**	42	0.69	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
Total Monochlorobiphenyls	**5.6**	**J q B**	420	0.94	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
Total Dichlorobiphenyls	44	U	420	44	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
Total Trichlorobiphenyls	**20**	**J q B**	420	1.6	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
Total Tetrachlorobiphenyls	**170**	**J q B**	420	1.5	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
Total Pentachlorobiphenyls	**1100**	**q B**	420	3.8	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
Total Hexachlorobiphenyls	**960**	**q B**	420	1.6	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
Total Heptachlorobiphenyls	**290**	**J q**	420	1.1	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
Total Octachlorobiphenyls	**64**	**J q**	420	1.0	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1

Client Sample ID: P-B-5_SS
Date Collected: 12/02/13 12:55
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-4
Matrix: Solid
Percent Solids: 93.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Nonachlorobiphenyls	69	J	420	0.86	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1
Polychlorinated biphenyls, Total	3100	q B	420	5.7	pg/g	☼	12/30/13 13:50	02/10/14 18:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*24*		*5 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-15L	*34*		*5 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-123L	*44*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-114L	*44*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-202L	*39*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-3L	*30*		*5 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-118L	*45*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-126L	*53*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-206L	*60*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-169L	*74*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-37L	*40*		*5 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-19L	*26*		*5 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-188L	*28*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-54L	*23*		*5 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-156L/157L	*65*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-167L	*61*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-209L	*55*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-189L	*58*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-105L	*46*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-208L	*55*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-1L	*25*		*5 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-104L	*26*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-81L	*47*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-77L	*48*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-205L	*60*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-155L	*31*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*45*		*5 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-111L	*53*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*
PCB-178L	*61*		*10 - 145*	*12/30/13 13:50*	*02/10/14 18:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		100	70	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Antimony	3.2	U	5.0	3.2	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Barium	180		25	1.3	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Beryllium	0.85	U	2.5	0.85	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Cadmium	0.50	U	2.5	0.50	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Calcium	30000		1300	67	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Chromium	14		5.0	1.5	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Cobalt	8.6	J	25	4.7	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Copper	19		13	3.6	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Iron	17000		50	15	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Lead	10		5.0	0.86	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Magnesium	11000		500	42	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Manganese	470		5.0	0.77	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5

Client Sample ID: P-B-5_SS

Lab Sample ID: 680-96723-4

Date Collected: 12/02/13 12:55

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	18	J	20	1.1	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Potassium	2200	J	2500	1700	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Selenium	1.4	U	7.5	1.4	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Silver	1.2	U	5.0	1.2	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Sodium	1100		500	240	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Titanium	980		10	3.2	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Vanadium	44		25	6.3	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5
Zinc	44		25	9.9	mg/Kg	☼	12/05/13 10:06	01/08/14 14:56	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2	J	5.0	1.3	mg/Kg	☼	12/05/13 09:53	12/25/13 05:59	10
Niobium	1.9	U	13	1.9	mg/Kg	☼	12/05/13 09:53	12/25/13 05:59	10
Thallium	0.76	U	2.5	0.76	mg/Kg	☼	12/05/13 09:53	12/25/13 05:59	10
Uranium	1.1		0.50	0.10	mg/Kg	☼	12/05/13 09:53	12/25/13 05:59	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.033	0.011	mg/Kg	☼	12/09/13 07:33	12/11/13 12:18	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.63	H	0.21	0.043	mg/Kg	☼		01/08/14 06:40	1
Chloride	22	H	2.1	0.21	mg/Kg	☼		01/08/14 06:40	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	360	H	110	11	mg/Kg	☼		01/08/14 06:57	20

Client Sample ID: P-B-5_SUB

Lab Sample ID: 680-96723-5

Date Collected: 12/02/13 13:30

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 94.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9700		97	68	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Antimony	3.1	U	4.9	3.1	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Barium	150		24	1.2	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Beryllium	0.82	U	2.4	0.82	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Cadmium	0.49	U	2.4	0.49	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Calcium	26000		1200	65	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Chromium	11		4.9	1.5	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Cobalt	8.3	J	24	4.6	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Copper	16		12	3.5	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Iron	16000		49	14	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Lead	16		4.9	0.84	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Magnesium	9200		490	41	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Manganese	420		4.9	0.75	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Nickel	17	J	19	1.1	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Potassium	2400		2400	1600	mg/Kg	☼	12/05/13 10:06	01/09/14 12:37	5
Selenium	1.4	U	7.3	1.4	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5

Client Sample ID: P-B-5_SUB

Lab Sample ID: 680-96723-5

Date Collected: 12/02/13 13:30

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.1	U	4.9	1.1	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Sodium	**1100**		490	230	mg/Kg	☼	12/05/13 10:06	01/09/14 12:37	5
Titanium	**840**		9.7	3.1	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Vanadium	**39**		24	6.1	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5
Zinc	**41**		24	9.7	mg/Kg	☼	12/05/13 10:06	01/08/14 15:07	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.1**	**J**	4.9	1.3	mg/Kg	☼	12/05/13 09:53	12/25/13 06:19	10
Niobium	1.9	U	12	1.9	mg/Kg	☼	12/05/13 09:53	12/25/13 06:19	10
Thallium	0.74	U	2.4	0.74	mg/Kg	☼	12/05/13 09:53	12/25/13 06:19	10
Uranium	**0.79**		0.49	0.097	mg/Kg	☼	12/05/13 09:53	12/25/13 06:19	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	12/09/13 07:33	12/11/13 12:20	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**11**	**H**	4.2	0.85	mg/Kg	☼		01/08/14 07:13	20
Chloride	**350**	**H**	42	4.2	mg/Kg	☼		01/08/14 07:13	20
Sulfate	**550**	**H**	110	11	mg/Kg	☼		01/08/14 07:13	20

Client Sample ID: DD-B-4_SS

Lab Sample ID: 680-96723-6

Date Collected: 12/02/13 14:30

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	37	U	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Acenaphthylene	37	U	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Anthracene	37	U	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Benzo[a]anthracene	**75**	**J**	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Benzo[b]fluoranthene	**150**	**J**	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Benzo[k]fluoranthene	**55**	**J**	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Benzo[g,h,i]perylene	**98**	**J**	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Benzo[a]pyrene	**89**	**J**	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Chrysene	**98**	**J**	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Dibenz(a,h)anthracene	37	U	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Fluoranthene	**88**	**J**	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Fluorene	37	U	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Indeno[1,2,3-cd]pyrene	**92**	**J**	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Naphthalene	37	U	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Phenanthrene	37	U	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1
Pyrene	**92**	**J**	370	37	ug/Kg	☼	12/16/13 13:12	12/26/13 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*74*		*53 - 97*	*12/16/13 13:12*	*12/26/13 21:09*	*1*
2,4,6-Tribromophenol (Surr)	*96*		*46 - 111*	*12/16/13 13:12*	*12/26/13 21:09*	*1*
Nitrobenzene-d5 (Surr)	*73*		*55 - 98*	*12/16/13 13:12*	*12/26/13 21:09*	*1*
Phenol-d5 (Surr)	*78*		*54 - 101*	*12/16/13 13:12*	*12/26/13 21:09*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: DD-B-4_SS
Date Collected: 12/02/13 14:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-6
Matrix: Solid
Percent Solids: 89.3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*85*		*58 - 123*	*12/16/13 13:12*	*12/26/13 21:09*	*1*
2-Fluorobiphenyl (Surr)	*82*		*56 - 97*	*12/16/13 13:12*	*12/26/13 21:09*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**300**	**J B**	440	5.1	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-2	**180**	**J B**	440	5.2	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-3	**140**	**J B**	440	5.4	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-4	**510**	**q**	440	94	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-5	130	U	440	130	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-6	**470**	**q**	440	130	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-7	120	U	440	120	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-8	**860**	**q**	440	130	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-9	140	U	440	140	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-10	56	U	440	56	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-11	**4400**	**q**	440	140	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-12/13	**480**	**J**	890	140	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-14	120	U	440	120	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-15	**640**	**q**	440	140	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-16	**320**	**J**	440	23	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-17	**210**	**J**	440	16	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-18/30	**380**	**J**	890	14	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-19	**57**	**J**	440	22	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-20/28	**1400**	**B**	890	36	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-21/33	**720**	**J B**	890	33	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-22	**560**		440	38	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-23	32	U	440	32	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-24	12	U	440	12	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-25	**70**	**J q**	440	34	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-26/29	**190**	**J q**	890	34	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-27	**42**	**J**	440	12	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-31	**1000**	**B**	440	33	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-32	**140**	**J**	440	9.4	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-34	34	U	440	34	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-35	**800**		440	39	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-36	34	U	440	34	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-37	**860**		440	40	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-38	37	U	440	37	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-39	35	U	440	35	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-40/71	**800**	**J**	890	34	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-41	**120**	**J**	440	45	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-42	**450**		440	38	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-43	39	U	440	39	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-44/47/65	**3300**	**B**	1300	33	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-45	**170**	**J**	440	38	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-46	**70**	**J**	440	41	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-48	**240**	**J**	440	35	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-49/69	**2700**	**B**	890	29	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-50/53	**220**	**J**	890	32	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: DD-B-4_SS
Date Collected: 12/02/13 14:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-6
Matrix: Solid
Percent Solids: 89.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-51	40	J	440	32	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-52	21000	B	440	36	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-54	8.0	U	440	8.0	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-55	110	U	440	110	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-56	2200		440	120	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-57	110	U	440	110	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-58	110	U	440	110	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-59/62/75	160	J	1300	25	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-60	800		440	120	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-61/70/74/76	10000	B	1800	110	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-63	100	U	440	100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-64	3000	B	440	24	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-66	6000		440	120	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-67	100	U	440	100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-68	98	U	440	98	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-72	110	U	440	110	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-73	27	U	440	27	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-77	1700	G	130	130	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-78	120	U	440	120	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-79	1300		440	110	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-80	100	U	440	100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-81	140	U G	140	140	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-82	5700	G	1400	1400	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-83	1900	G	1500	1500	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-84	9300	G	1300	1300	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-85/116/117	13000		1300	930	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-86/87/97/108/119/125	43000	B	2700	960	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-88/91	7600	G	1100	1100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-89	1200	U G	1200	1200	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-90/101/113	86000	B	1300	970	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-92	15000	G	1100	1100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-93/100	1100	U G	1100	1100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-107/124	2100		890	880	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-94	1100	U G	1100	1100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-95	53000	G B	1100	1100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-96	110	J	440	5.7	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-98/102	1000	U G	1000	1000	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-99	39000	G	1100	1100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-103	990	U G	990	990	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-104	6.2	U	440	6.2	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-105	30000	G	960	960	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-106	960	U G	960	960	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-110/115	110000	B	890	850	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-109	5100	G	820	820	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-111	780	U G	780	780	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-112	750	U G	750	750	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-114	990	U G	990	990	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-115	110000	B	890	850	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-118	77000	G E B	900	900	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: DD-B-4_SS
Date Collected: 12/02/13 14:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-6
Matrix: Solid
Percent Solids: 89.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-120	830	U G	830	830	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-121	780	U G	780	780	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-122	980	U G	980	980	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-123	890	U G	890	890	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-126	1100	U G	1100	1100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-127	960	U G	960	960	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-128/166	**19000**	**G**	1100	1100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-129/138/163	**140000**	**B**	1300	1200	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-130	**7000**	**G**	1500	1500	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-131	1400	U G	1400	1400	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-132	**36000**	**G**	1400	1400	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-133	1400	U G	1400	1400	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-134/143	**4400**	**G**	1400	1400	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-135/151	**30000**	**G**	1200	1200	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-136	**11000**	**G**	880	880	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-137	**5000**	**G**	1200	1200	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-139/140	1200	U G	1200	1200	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-141	**20000**	**G**	1300	1300	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-142	1300	U G	1300	1300	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-144	**4700**	**G**	1200	1200	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-145	860	U G	860	860	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-146	**16000**	**G**	1300	1300	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-147/149	**83000**	**G B**	1200	1200	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-148	1200	U G	1200	1200	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-150	800	U G	800	800	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-152	820	U G	820	820	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-153/168	**100000**	**G B**	1000	1000	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-154	1100	U G	1100	1100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-155	890	U G	890	890	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-156/157	**16000**	**G**	180	180	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-158	**13000**	**G**	910	910	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-159	150	U	440	150	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-160	1100	U G	1100	1100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-161	920	U G	920	920	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-162	**430**	**J**	440	140	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-164	**8400**	**G**	1000	1000	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-165	1100	U G	1100	1100	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-167	**5400**	**G**	140	140	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-169	160	U G	160	160	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-170	**36000**		440	58	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-171/173	**10000**		890	53	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-172	**5100**		440	55	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-174	**31000**		440	54	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-175	**1100**		440	22	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-176	**2800**		440	15	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-177	**18000**		440	55	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-178	**4600**		440	23	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-179	**9300**		440	16	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-180/193	**68000**	**B**	890	44	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10

Client Sample ID: DD-B-4_SS
Date Collected: 12/02/13 14:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-6
Matrix: Solid
Percent Solids: 89.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-181	45	U	440	45	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-182	21	U	440	21	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-183	**16000**		440	41	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-184	**110**	**J**	440	17	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-185	**1300**		440	49	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-186	16	U	440	16	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-187	**31000**		440	22	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-188	**69**	**J**	440	17	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-189	**1400**		44	21	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-190	**7100**		440	41	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-191	**1400**		440	40	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-192	41	U	440	41	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-194	**12000**		440	32	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-195	**4100**		440	30	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-196	**5700**		440	20	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-197	**730**		440	13	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-198/199	**11000**		890	21	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-200	**1200**		440	13	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-201	**1300**		440	13	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-202	**1600**		440	17	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-203	**7100**		440	18	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-204	**110**	**J**	440	14	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-205	**700**		440	21	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-206	**4500**		440	22	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-207	**3300**		440	16	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-208	**2700**		440	20	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
PCB-209	**250000**	**E B**	440	20	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
Total Monochlorobiphenyls	**630**	**J B**	4400	5.2	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
Total Dichlorobiphenyls	**7300**	**q**	4400	120	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
Total Trichlorobiphenyls	**6700**	**q B**	4400	28	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
Total Tetrachlorobiphenyls	**55000**	**B**	4400	73	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
Total Pentachlorobiphenyls	**500000**	**B**	4400	940	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
Total Hexachlorobiphenyls	**520000**	**B**	4400	980	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
Total Heptachlorobiphenyls	**240000**	**B**	4400	35	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
Total Octachlorobiphenyls	**45000**		4400	19	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
Total Nonachlorobiphenyls	**10000**		4400	19	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10
Polychlorinated biphenyls, Total	**1600000**	**q B**	4400	220	pg/g	☼	12/19/13 17:37	02/08/14 00:38	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*52*		*5 - 145*	*12/19/13 17:37*	*02/08/14 00:38*	*10*
PCB-15L	*74*		*5 - 145*	*12/19/13 17:37*	*02/08/14 00:38*	*10*
PCB-123L	*91*		*10 - 145*	*12/19/13 17:37*	*02/08/14 00:38*	*10*
PCB-114L	*88*		*10 - 145*	*12/19/13 17:37*	*02/08/14 00:38*	*10*
PCB-202L	*78*		*10 - 145*	*12/19/13 17:37*	*02/08/14 00:38*	*10*
PCB-3L	*59*		*5 - 145*	*12/19/13 17:37*	*02/08/14 00:38*	*10*
PCB-118L	*91*		*10 - 145*	*12/19/13 17:37*	*02/08/14 00:38*	*10*
PCB-126L	*102*		*10 - 145*	*12/19/13 17:37*	*02/08/14 00:38*	*10*
PCB-206L	*91*		*10 - 145*	*12/19/13 17:37*	*02/08/14 00:38*	*10*
PCB-169L	*103*		*10 - 145*	*12/19/13 17:37*	*02/08/14 00:38*	*10*
PCB-37L	*91*		*5 - 145*	*12/19/13 17:37*	*02/08/14 00:38*	*10*

Client Sample ID: DD-B-4_SS
Date Collected: 12/02/13 14:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-6
Matrix: Solid
Percent Solids: 89.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-19L	58		5 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-188L	72		10 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-54L	59		5 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-156L/157L	95		10 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-167L	88		10 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-209L	97		10 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-189L	79		10 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-105L	94		10 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-208L	92		10 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-1L	49		5 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-104L	60		10 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-81L	89		10 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-77L	90		10 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-205L	90		10 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-155L	69		10 - 145	12/19/13 17:37	02/08/14 00:38	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	99		5 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-111L	91		10 - 145	12/19/13 17:37	02/08/14 00:38	10
PCB-178L	99		10 - 145	12/19/13 17:37	02/08/14 00:38	10

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	5.1		2.2	0.067	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
1,2,3,7,8-PeCDD	12		11	0.22	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
1,2,3,7,8-PeCDF	180		11	0.51	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
2,3,4,7,8-PeCDF	100	B	11	0.53	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
1,2,3,4,7,8-HxCDD	10	J B	11	0.15	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
1,2,3,6,7,8-HxCDD	19	B	11	0.10	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
1,2,3,7,8,9-HxCDD	20	B	11	0.11	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
1,2,3,4,7,8-HxCDF	560	B	11	0.50	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
1,2,3,6,7,8-HxCDF	180	B	11	0.37	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
1,2,3,7,8,9-HxCDF	26	B	11	0.48	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
2,3,4,6,7,8-HxCDF	78	B	11	0.43	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
1,2,3,4,6,7,8-HpCDD	110	B	11	0.44	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
1,2,3,4,6,7,8-HpCDF	1100	B	11	2.3	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
1,2,3,4,7,8,9-HpCDF	390	B	11	2.7	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1
OCDD	660	B	22	0.38	pg/g	☼	12/19/13 15:47	01/08/14 04:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	90		40 - 135	12/19/13 15:47	01/08/14 04:11	1
13C-2,3,7,8-TCDD	94		40 - 135	12/19/13 15:47	01/08/14 04:11	1
13C-1,2,3,7,8-PeCDD	96		40 - 135	12/19/13 15:47	01/08/14 04:11	1
13C-1,2,3,4,6,7,8-HpCDF	98		40 - 135	12/19/13 15:47	01/08/14 04:11	1
13C-1,2,3,7,8-PeCDF	92		40 - 135	12/19/13 15:47	01/08/14 04:11	1
13C-2,3,7,8-TCDF	87		40 - 135	12/19/13 15:47	01/08/14 04:11	1
13C-1,2,3,4,6,7,8-HpCDD	104		40 - 135	12/19/13 15:47	01/08/14 04:11	1
13C-OCDD	111		40 - 135	12/19/13 15:47	01/08/14 04:11	1
13C-1,2,3,4,7,8-HxCDF	85		40 - 135	12/19/13 15:47	01/08/14 04:11	1

Client Sample ID: DD-B-4_SS
Date Collected: 12/02/13 14:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-6
Matrix: Solid
Percent Solids: 89.3

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDF	37000	B	670	36	pg/g	☼	12/19/13 15:47	01/25/14 07:03	30

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-OCDD	*74*		*40 - 135*	*12/19/13 15:47*	*01/25/14 07:03*	*30*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	210	B	2.2	2.1	pg/g	☼	12/19/13 15:47	01/14/14 04:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*100*		*40 - 135*	*12/19/13 15:47*	*01/14/14 04:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		110	76	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Antimony	3.5	U	5.4	3.5	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Barium	290		27	1.4	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Beryllium	0.92	U	2.7	0.92	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Cadmium	0.54	U	2.7	0.54	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Calcium	28000		1400	72	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Chromium	170		5.4	1.7	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Cobalt	14	J	27	5.1	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Copper	89		14	4.0	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Iron	16000		54	16	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Lead	42		5.4	0.94	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Magnesium	14000		540	45	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Manganese	2000		5.4	0.84	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Nickel	30		22	1.2	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Potassium	2200	J	2700	1800	mg/Kg	☼	12/05/13 10:06	01/09/14 12:40	5
Selenium	1.6	U	8.2	1.6	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Silver	5.2	J	5.4	1.3	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Sodium	890		540	260	mg/Kg	☼	12/05/13 10:06	01/09/14 12:40	5
Titanium	3000		11	3.4	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Vanadium	320		27	6.9	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5
Zinc	85		27	11	mg/Kg	☼	12/05/13 10:06	01/08/14 15:11	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.8	J	5.4	1.4	mg/Kg	☼	12/05/13 09:53	12/25/13 06:26	10
Niobium	160		27	4.1	mg/Kg	☼	12/05/13 09:53	12/26/13 18:07	20
Thallium	0.83	U	2.7	0.83	mg/Kg	☼	12/05/13 09:53	12/25/13 06:26	10
Uranium	21		0.54	0.11	mg/Kg	☼	12/05/13 09:53	12/25/13 06:26	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.033	0.011	mg/Kg	☼	12/09/13 07:33	12/11/13 12:22	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	23	H	4.5	0.89	mg/Kg	☼		01/08/14 07:29	20
Chloride	910	H	45	4.5	mg/Kg	☼		01/08/14 07:29	20
Sulfate	640	H	110	11	mg/Kg	☼		01/08/14 07:29	20

Client Sample ID: DD-B-4_SS
Date Collected: 12/02/13 14:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-6
Matrix: Solid

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	126		10.0	5.59	pCi/g		12/09/13 08:58	12/10/13 06:33	1
Gross Beta	48.8		10.0	3.63	pCi/g		12/09/13 08:58	12/10/13 06:33	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.10			0.240	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Bismuth-212	4.12			0.970	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Bismuth-214	4.57			0.177	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Bismuth-210M	0.0433	U		0.164	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Cesium-134	0.0172	U		0.0737	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Cesium-137	0.0337	U		0.121	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Cobalt-57	0.00948	U		0.0920	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Cobalt-60	0.000	U		0.206	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Lead-212	2.14			0.192	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Lead-214	4.75			0.242	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Potassium-40	20.0			0.728	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Protactinium-231	0.891	U		3.88	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Protactinium-234	0.0946	U		0.480	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Radium-224	1.16	U		3.11	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Thallium-208	0.834			0.0972	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Thorium-227	-0.384	U		0.917	pCi/g		12/12/13 15:18	01/03/14 09:26	1
Thorium-234	6.47			3.07	pCi/g		12/12/13 15:18	01/03/14 09:26	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	5.23		1.00	0.0990	pCi/g		12/09/13 08:58	01/01/14 15:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*12/09/13 08:58*	*01/01/14 15:58*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.33		1.00	0.415	pCi/g		12/09/13 09:05	12/30/13 10:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*12/09/13 09:05*	*12/30/13 10:59*	*1*
Y Carrier	*87.5*		*40 - 110*	*12/09/13 09:05*	*12/30/13 10:59*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.90		1.00	0.0798	pCi/g		01/22/14 08:12	01/24/14 19:12	1
Thorium-230	5.58		1.00	0.0583	pCi/g		01/22/14 08:12	01/24/14 19:12	1
Thorium-232	1.49		1.00	0.0702	pCi/g		01/22/14 08:12	01/24/14 19:12	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*83.2*		*30 - 110*	*01/22/14 08:12*	*01/24/14 19:12*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	6.78		1.00	0.0492	pCi/g		01/06/14 12:37	01/16/14 23:40	1
Uranium-235/236	0.401		1.00	0.0612	pCi/g		01/06/14 12:37	01/16/14 23:40	1

Client Sample ID: DD-B-4_SS

Lab Sample ID: 680-96723-6

Date Collected: 12/02/13 14:30

Matrix: Solid

Date Received: 12/04/13 09:20

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-238	6.79		1.00	0.0491	pCi/g		01/06/14 12:37	01/16/14 23:40	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*88.2*		*30 - 110*	*01/06/14 12:37*	*01/16/14 23:40*	*1*

Client Sample ID: DD-B-4_SUB

Lab Sample ID: 680-96723-7

Date Collected: 12/02/13 15:11

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 93.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		100	71	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Antimony	3.2	U	5.0	3.2	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Barium	170		25	1.3	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Beryllium	0.85	U	2.5	0.85	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Cadmium	0.50	U	2.5	0.50	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Calcium	20000		1300	67	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Chromium	17		5.0	1.6	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Cobalt	8.9	J	25	4.7	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Copper	18		13	3.7	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Iron	18000		50	15	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Lead	10		5.0	0.87	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Magnesium	10000		500	42	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Manganese	360		5.0	0.78	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Nickel	18	J	20	1.1	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Potassium	2100	J	2500	1700	mg/Kg	☼	12/05/13 10:06	01/09/14 12:44	5
Selenium	1.5	U	7.6	1.5	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Silver	1.2	U	5.0	1.2	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Sodium	850		500	240	mg/Kg	☼	12/05/13 10:06	01/09/14 12:44	5
Titanium	1100		10	3.2	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Vanadium	56		25	6.4	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5
Zinc	45		25	10	mg/Kg	☼	12/05/13 10:06	01/08/14 15:15	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5	J	5.0	1.3	mg/Kg	☼	12/05/13 09:53	12/25/13 06:32	10
Niobium	12	J	13	1.9	mg/Kg	☼	12/05/13 09:53	12/25/13 06:32	10
Thallium	0.77	U	2.5	0.77	mg/Kg	☼	12/05/13 09:53	12/25/13 06:32	10
Uranium	1.3		0.50	0.10	mg/Kg	☼	12/05/13 09:53	12/25/13 06:32	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.034	0.011	mg/Kg	☼	12/09/13 07:33	12/11/13 12:23	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.6	H	0.21	0.043	mg/Kg	☼		01/08/14 07:46	1
Sulfate	190	H	5.4	0.54	mg/Kg	☼		01/08/14 07:46	1

Client Sample ID: DD-B-4_SUB
Date Collected: 12/02/13 15:11
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-7
Matrix: Solid
Percent Solids: 93.6

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320	H	43	4.3	mg/Kg	☼		01/08/14 08:02	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	31.8		10.0	7.34	pCi/g		12/09/13 08:58	12/10/13 06:33	1
Gross Beta	30.0		10.0	3.15	pCi/g		12/09/13 08:58	12/10/13 06:33	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.68			0.242	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Bismuth-212	2.98			0.797	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Bismuth-214	1.11			0.127	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Bismuth-210M	0.00754	U		0.127	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Cesium-134	0.0512	U		0.0768	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Cesium-137	0.000363	U		0.0876	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Cobalt-57	-0.00979	U		0.0629	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Cobalt-60	0.0216	U		0.0866	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Lead-212	1.60			0.176	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Lead-214	1.13			0.200	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Potassium-40	24.8			0.877	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Protactinium-231	0.931	U		2.73	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Protactinium-234	0.0750	U		0.255	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Radium-224	1.61	U		1.74	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Thallium-208	0.583			0.0828	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Thorium-227	-0.0412	U		1.71	pCi/g		12/12/13 15:18	01/03/14 09:23	1
Thorium-234	0.942	U		2.22	pCi/g		12/12/13 15:18	01/03/14 09:23	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	1.13		1.00	0.0913	pCi/g		12/09/13 08:58	01/01/14 15:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*40 - 110*	*12/09/13 08:58*	*01/01/14 15:58*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.54		1.00	0.342	pCi/g		12/09/13 09:05	12/30/13 11:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*40 - 110*	*12/09/13 09:05*	*12/30/13 11:00*	*1*
Y Carrier	*86.0*		*40 - 110*	*12/09/13 09:05*	*12/30/13 11:00*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.31		1.00	0.0811	pCi/g		01/22/14 08:12	01/24/14 19:13	1
Thorium-230	0.834		1.00	0.0738	pCi/g		01/22/14 08:12	01/24/14 19:13	1
Thorium-232	1.35		1.00	0.0615	pCi/g		01/22/14 08:12	01/24/14 19:13	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*79.4*		*30 - 110*	*01/22/14 08:12*	*01/24/14 19:13*	*1*

Client Sample ID: DD-B-4_SUB

Lab Sample ID: 680-96723-7

Date Collected: 12/02/13 15:11

Matrix: Solid

Date Received: 12/04/13 09:20

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	1.08		1.00	0.0777	pCi/g		01/06/14 12:37	01/17/14 19:28	1
Uranium-235/236	0.0684		1.00	0.0647	pCi/g		01/06/14 12:37	01/17/14 19:28	1
Uranium-238	1.17		1.00	0.0519	pCi/g		01/06/14 12:37	01/17/14 19:28	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*84.0*		*30 - 110*	*01/06/14 12:37*	*01/17/14 19:28*	*1*

Client Sample ID: DD-B-9_SS

Lab Sample ID: 680-96723-8

Date Collected: 12/03/13 08:00

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Acenaphthylene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Anthracene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Benzo[a]anthracene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Benzo[b]fluoranthene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Benzo[k]fluoranthene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Benzo[g,h,i]perylene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Benzo[a]pyrene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Chrysene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Dibenz(a,h)anthracene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Fluoranthene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Fluorene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Indeno[1,2,3-cd]pyrene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Naphthalene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Phenanthrene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1
Pyrene	36	U	350	36	ug/Kg	☼	12/16/13 13:12	12/26/13 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*76*		*53 - 97*	*12/16/13 13:12*	*12/26/13 21:41*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*46 - 111*	*12/16/13 13:12*	*12/26/13 21:41*	*1*
Nitrobenzene-d5 (Surr)	*78*		*55 - 98*	*12/16/13 13:12*	*12/26/13 21:41*	*1*
Phenol-d5 (Surr)	*79*		*54 - 101*	*12/16/13 13:12*	*12/26/13 21:41*	*1*
Terphenyl-d14 (Surr)	*80*		*58 - 123*	*12/16/13 13:12*	*12/26/13 21:41*	*1*
2-Fluorobiphenyl (Surr)	*80*		*56 - 97*	*12/16/13 13:12*	*12/26/13 21:41*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	13	J B	420	2.8	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-2	4.8	J q B	420	3.0	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-3	12	J q B	420	3.2	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-4	70	U	420	70	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-5	110	U	420	110	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-6	110	U	420	110	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-7	100	U	420	100	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-8	110	U	420	110	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-9	120	U	420	120	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-10	43	U	420	43	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: DD-B-9_SS
Date Collected: 12/03/13 08:00
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-8
Matrix: Solid
Percent Solids: 93.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-11	110	U	420	110	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-12/13	120	U	840	120	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-14	96	U	420	96	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-15	**130**	**J**	420	120	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-16	**31**	**J q**	420	20	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-17	**21**	**J q**	420	14	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-18/30	**69**	**J**	840	12	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-19	17	U	420	17	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-20/28	**250**	**J B**	840	9.3	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-21/33	**92**	**J B**	840	8.6	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-22	**99**	**J**	420	9.9	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-23	8.4	U	420	8.4	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-24	10	U	420	10	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-25	**13**	**J**	420	8.7	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-26/29	**35**	**J**	840	8.7	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-27	10	U	420	10	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-31	**180**	**J B**	420	8.6	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-32	**22**	**J**	420	8.0	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-34	8.8	U	420	8.8	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-35	**43**	**J**	420	10	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-36	8.9	U	420	8.9	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-37	**170**	**J**	420	11	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-38	9.6	U	420	9.6	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-39	9.0	U	420	9.0	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-40/71	**160**	**J**	840	5.8	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-41	**19**	**J q**	420	7.5	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-42	**92**	**J**	420	6.4	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-43	6.6	U	420	6.6	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-44/47/65	**540**	**J B**	1300	5.5	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-45	**19**	**J q**	420	6.5	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-46	6.9	U	420	6.9	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-48	**46**	**J**	420	5.9	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-49/69	**270**	**J B**	840	4.8	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-50/53	**36**	**J**	840	5.4	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-51	5.4	U	420	5.4	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-52	**1300**	**B**	420	6.0	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-54	5.8	U	420	5.8	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-55	16	U	420	16	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-56	**230**	**J**	420	17	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-57	16	U	420	16	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-58	16	U	420	16	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-59/62/75	**17**	**J q**	1300	4.3	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-60	**110**	**J**	420	17	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-61/70/74/76	**990**	**J B**	1700	15	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-63	15	U	420	15	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-64	**220**	**J B**	420	4.0	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-66	**520**		420	17	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-67	15	U	420	15	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-68	14	U	420	14	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: DD-B-9_SS
Date Collected: 12/03/13 08:00
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-8
Matrix: Solid
Percent Solids: 93.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-72	15	U	420	15	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-73	4.6	U	420	4.6	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-77	**150**		42	21	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-78	18	U	420	18	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-79	**66**	**J q**	420	15	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-80	15	U	420	15	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-81	19	U	42	19	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-82	**440**		420	89	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-83	**110**	**J**	420	97	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-84	**760**		420	81	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-85/116/117	**560**	**J**	1300	60	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-86/87/97/108/119/125	**2500**	**B**	2500	61	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-88/91	**360**	**J**	840	68	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-89	76	U	420	76	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-90/101/113	**4000**	**B**	1300	62	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-92	**660**		420	72	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-93/100	68	U	840	68	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-107/124	**120**	**J**	840	56	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-94	72	U	420	72	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-95	**2600**	**B**	420	67	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-96	**5.6**	**J q**	420	3.8	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-98/102	64	U	840	64	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-99	**1700**		420	72	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-103	63	U	420	63	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-104	4.0	U	420	4.0	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-105	**1600**	**G**	64	64	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-106	61	U	420	61	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-110/115	**5400**	**B**	840	55	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-109	**240**	**J**	420	52	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-111	50	U	420	50	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-112	48	U	420	48	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-114	61	U G	61	61	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-115	**5400**	**B**	840	55	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-118	**3700**	**G B**	56	56	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-120	53	U	420	53	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-121	50	U	420	50	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-122	63	U	420	63	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-123	59	U G	59	59	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-126	71	U G	71	71	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-127	61	U	420	61	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-128/166	**980**		840	38	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-129/138/163	**7000**	**B**	1300	39	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-130	**320**	**J**	420	50	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-131	**54**	**J**	420	47	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-132	**1800**		420	45	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-133	**55**	**J**	420	44	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-134/143	**210**	**J**	840	45	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-135/151	**1300**		840	40	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-136	**450**		420	29	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10

Client Sample ID: DD-B-9_SS
Date Collected: 12/03/13 08:00
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-8
Matrix: Solid
Percent Solids: 93.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-137	200	J	420	39	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-139/140	46	J q	840	38	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-141	1200		420	42	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-142	44	U	420	44	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-144	220	J	420	39	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-145	28	U	420	28	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-146	750		420	42	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-147/149	3700	B	840	39	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-148	39	U	420	39	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-150	26	U	420	26	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-152	27	U	420	27	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-153/168	4900	B	840	33	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-154	35	U	420	35	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-155	30	U	420	30	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-156/157	910		84	17	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-158	680		420	30	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-159	14	U	420	14	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-160	35	U	420	35	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-161	30	U	420	30	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-162	15	J q	420	13	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-164	460		420	33	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-165	35	U	420	35	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-167	320		42	14	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-169	14	U	42	14	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-170	2400		420	14	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-171/173	630	J	840	13	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-172	360	J	420	14	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-174	2000		420	14	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-175	68	J	420	5.8	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-176	150	J	420	3.9	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-177	1100		420	14	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-178	290	J	420	6.1	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-179	490		420	4.3	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-180/193	4900	B	840	11	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-181	11	U	420	11	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-182	13	J	420	5.4	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-183	1000		420	10	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-184	11	J	420	4.4	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-185	88	J	420	12	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-186	4.1	U	420	4.1	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-187	1900		420	5.6	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-188	4.5	U	420	4.5	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-189	82		42	7.5	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-190	530		420	10	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-191	76	J q	420	9.8	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-192	10	U	420	10	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-194	960		420	11	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-195	310	J	420	10	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-196	460		420	13	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10

Client Sample ID: DD-B-9_SS
Date Collected: 12/03/13 08:00
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-8
Matrix: Solid
Percent Solids: 93.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-197	86	J	420	8.9	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-198/199	850		840	14	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-200	64	J	420	9.1	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-201	110	J	420	9.0	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-202	120	J	420	12	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-203	550		420	12	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-204	9.3	U	420	9.3	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-205	60	J q	420	7.1	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-206	410	J	420	8.6	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-207	450		420	6.6	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-208	320	J	420	8.2	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
PCB-209	28000	B	420	5.7	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
Total Monochlorobiphenyls	30	J q B	4200	3.0	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
Total Dichlorobiphenyls	130	J	4200	100	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
Total Trichlorobiphenyls	1000	J q B	4200	11	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
Total Tetrachlorobiphenyls	4800	q B	4200	11	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
Total Pentachlorobiphenyls	25000	q B	4200	61	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
Total Hexachlorobiphenyls	26000	q B	4200	34	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
Total Heptachlorobiphenyls	16000	q B	4200	8.9	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
Total Octachlorobiphenyls	3600	J q	4200	11	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
Total Nonachlorobiphenyls	1200	J	4200	7.8	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10
Polychlorinated biphenyls, Total	100000	q B	4200	25	pg/g	☼	12/19/13 17:37	02/08/14 01:54	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*49*		*5 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-15L	*65*		*5 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-123L	*81*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-114L	*79*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-202L	*73*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-3L	*54*		*5 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-118L	*83*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-126L	*85*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-206L	*89*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-169L	*127*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-37L	*76*		*5 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-19L	*61*		*5 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-188L	*68*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-54L	*63*		*5 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-156L/157L	*95*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-167L	*87*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-209L	*94*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-189L	*79*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-105L	*82*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-208L	*85*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-1L	*46*		*5 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-104L	*58*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-81L	*76*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-77L	*75*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-205L	*86*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*
PCB-155L	*69*		*10 - 145*	*12/19/13 17:37*	*02/08/14 01:54*	*10*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: DD-B-9_SS
Date Collected: 12/03/13 08:00
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-8
Matrix: Solid
Percent Solids: 93.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	82		5 - 145	12/19/13 17:37	02/08/14 01:54	10
PCB-111L	85		10 - 145	12/19/13 17:37	02/08/14 01:54	10
PCB-178L	98		10 - 145	12/19/13 17:37	02/08/14 01:54	10

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.69	J	2.1	0.045	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
1,2,3,7,8-PeCDD	1.2	J	10	0.10	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
1,2,3,7,8-PeCDF	16		10	0.14	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
2,3,4,7,8-PeCDF	9.7	J B	10	0.15	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
1,2,3,4,7,8-HxCDD	0.95	J q B	10	0.085	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
1,2,3,6,7,8-HxCDD	2.3	J B	10	0.060	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
1,2,3,7,8,9-HxCDD	2.6	J B	10	0.062	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
1,2,3,4,7,8-HxCDF	50	B	10	0.16	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
1,2,3,6,7,8-HxCDF	21	B	10	0.12	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
1,2,3,7,8,9-HxCDF	2.7	J B	10	0.15	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
2,3,4,6,7,8-HxCDF	8.3	J B	10	0.14	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
1,2,3,4,6,7,8-HpCDD	19	B	10	0.17	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
1,2,3,4,6,7,8-HpCDF	160	B	10	0.53	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
1,2,3,4,7,8,9-HpCDF	40	B	10	0.62	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
OCDD	160	B	21	0.23	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1
OCDF	6600	B	21	1.0	pg/g	☼	12/19/13 15:47	01/08/14 04:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	90		40 - 135	12/19/13 15:47	01/08/14 04:53	1
13C-2,3,7,8-TCDD	90		40 - 135	12/19/13 15:47	01/08/14 04:53	1
13C-1,2,3,7,8-PeCDD	88		40 - 135	12/19/13 15:47	01/08/14 04:53	1
13C-1,2,3,4,6,7,8-HpCDF	98		40 - 135	12/19/13 15:47	01/08/14 04:53	1
13C-1,2,3,7,8-PeCDF	88		40 - 135	12/19/13 15:47	01/08/14 04:53	1
13C-2,3,7,8-TCDF	84		40 - 135	12/19/13 15:47	01/08/14 04:53	1
13C-1,2,3,4,6,7,8-HpCDD	102		40 - 135	12/19/13 15:47	01/08/14 04:53	1
13C-OCDD	106		40 - 135	12/19/13 15:47	01/08/14 04:53	1
13C-1,2,3,4,7,8-HxCDF	85		40 - 135	12/19/13 15:47	01/08/14 04:53	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	18	B	2.1	0.58	pg/g	☼	12/19/13 15:47	01/14/14 01:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	96		40 - 135	12/19/13 15:47	01/14/14 01:49	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9500		100	72	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Antimony	3.3	U	5.1	3.3	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Barium	210		26	1.3	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Beryllium	0.86	U *	2.6	0.86	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Cadmium	0.51	U	2.6	0.51	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Calcium	19000		1300	68	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Chromium	38		5.1	1.6	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Cobalt	9.7	J	26	4.8	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Copper	48		13	3.7	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: DD-B-9_SS
Date Collected: 12/03/13 08:00
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-8
Matrix: Solid
Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13000		51	15	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Lead	16		5.1	0.88	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Magnesium	8400		510	43	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Manganese	800	*	5.1	0.79	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Nickel	17	J	20	1.2	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Potassium	3400	U	5100	3400	mg/Kg	☼	12/06/13 07:38	01/09/14 22:12	10
Selenium	1.5	U	7.7	1.5	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Silver	1.2	U	5.1	1.2	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Sodium	1900		1000	480	mg/Kg	☼	12/06/13 07:38	01/09/14 22:12	10
Titanium	1200		10	3.2	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Vanadium	71		26	6.4	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5
Zinc	45		26	10	mg/Kg	☼	12/06/13 07:38	01/08/14 15:26	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9	J	5.1	1.3	mg/Kg	☼	12/06/13 07:42	12/31/13 01:28	10
Niobium	41		13	1.9	mg/Kg	☼	12/06/13 07:42	12/31/13 01:28	10
Thallium	0.78	U	2.6	0.78	mg/Kg	☼	12/06/13 07:42	12/31/13 01:28	10
Uranium	6.0		0.51	0.10	mg/Kg	☼	12/06/13 07:42	12/31/13 01:28	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.033	0.011	mg/Kg	☼	12/09/13 07:33	12/11/13 12:25	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	100	H	4.3	0.86	mg/Kg	☼		01/08/14 08:52	20
Sulfate	2200	H	110	11	mg/Kg	☼		01/08/14 08:52	20

General Chemistry - Soluble - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4500	H	430	43	mg/Kg	☼		01/08/14 13:31	200

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	88.5		10.0	5.51	pCi/g		12/09/13 08:58	12/10/13 06:34	1
Gross Beta	45.9		10.0	3.47	pCi/g		12/09/13 08:58	12/10/13 06:34	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.05			0.286	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Bismuth-212	1.17			1.15	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Bismuth-214	3.67			0.191	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Bismuth-210M	-0.0218	U		0.158	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Cesium-134	0.00604	U		0.132	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Cesium-137	0.00659	U		0.102	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Cobalt-57	-0.0462	U		0.683	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Cobalt-60	0.0107	U		0.108	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Lead-212	1.95			0.169	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Lead-214	4.06			0.205	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Potassium-40	24.3			0.779	pCi/g		12/12/13 15:18	01/03/14 09:24	1

Client Sample ID: DD-B-9_SS

Lab Sample ID: 680-96723-8

Date Collected: 12/03/13 08:00

Matrix: Solid

Date Received: 12/04/13 09:20

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Protactinium-231	0.910	U		3.30	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Protactinium-234	0.127	U		0.426	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Radium-224	**2.76**			2.74	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Thallium-208	**0.661**			0.112	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Thorium-227	0.201	U		1.97	pCi/g		12/12/13 15:18	01/03/14 09:24	1
Thorium-234	**3.59**			2.61	pCi/g		12/12/13 15:18	01/03/14 09:24	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**4.94**		1.00	0.107	pCi/g		12/09/13 08:58	01/01/14 15:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*12/09/13 08:58*	*01/01/14 15:58*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.05**		1.00	0.333	pCi/g		12/09/13 09:06	12/30/13 11:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*12/09/13 09:06*	*12/30/13 11:00*	*1*
Y Carrier	*87.1*		*40 - 110*	*12/09/13 09:06*	*12/30/13 11:00*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.65**		1.00	0.115	pCi/g		01/22/14 08:12	01/24/14 19:13	1
Thorium-230	**2.65**		1.00	0.0719	pCi/g		01/22/14 08:12	01/24/14 19:13	1
Thorium-232	**1.59**		1.00	0.0798	pCi/g		01/22/14 08:12	01/24/14 19:13	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*80.0*		*30 - 110*	*01/22/14 08:12*	*01/24/14 19:13*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**3.84**		1.00	0.0513	pCi/g		01/06/14 12:37	01/16/14 23:40	1
Uranium-235/236	**0.210**		1.00	0.0421	pCi/g		01/06/14 12:37	01/16/14 23:40	1
Uranium-238	**3.16**		1.00	0.0584	pCi/g		01/06/14 12:37	01/16/14 23:40	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*82.2*		*30 - 110*	*01/06/14 12:37*	*01/16/14 23:40*	*1*

Client Sample ID: DD-B-9_SUB

Lab Sample ID: 680-96723-9

Date Collected: 12/03/13 08:50

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 92.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8900**		99	69	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Antimony	3.2	U	4.9	3.2	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Barium	**130**		25	1.2	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Beryllium	0.84	U *	2.5	0.84	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Cadmium	0.49	U	2.5	0.49	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Calcium	**26000**		1200	66	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: DD-B-9_SUB
Date Collected: 12/03/13 08:50
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-9
Matrix: Solid
Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	13		4.9	1.5	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Cobalt	7.4	J	25	4.6	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Copper	16		12	3.6	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Iron	13000		49	15	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Lead	8.2		4.9	0.85	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Magnesium	7900		490	41	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Manganese	270	*	4.9	0.76	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Nickel	15	J	20	1.1	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Potassium	3300	U	4900	3300	mg/Kg	☼	12/06/13 07:38	01/09/14 22:24	10
Selenium	1.4	U	7.4	1.4	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Silver	1.2	U	4.9	1.2	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Sodium	1100		990	470	mg/Kg	☼	12/06/13 07:38	01/09/14 22:24	10
Titanium	720		9.9	3.1	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Vanadium	37		25	6.2	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5
Zinc	35		25	9.8	mg/Kg	☼	12/06/13 07:38	01/08/14 15:30	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		4.9	1.3	mg/Kg	☼	12/06/13 07:42	12/31/13 01:35	10
Niobium	8.9	J	12	1.9	mg/Kg	☼	12/06/13 07:42	12/31/13 01:35	10
Thallium	0.75	U	2.5	0.75	mg/Kg	☼	12/06/13 07:42	12/31/13 01:35	10
Uranium	1.6		0.49	0.098	mg/Kg	☼	12/06/13 07:42	12/31/13 01:35	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.031	0.010	mg/Kg	☼	12/09/13 07:33	12/11/13 12:26	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.9	H	0.22	0.043	mg/Kg	☼		01/08/14 09:24	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	280	H	110	11	mg/Kg	☼		01/08/14 09:41	20

General Chemistry - Soluble - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190	H	43	4.3	mg/Kg	☼		01/08/14 13:47	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	26.6		10.0	5.91	pCi/g		12/09/13 08:58	12/10/13 06:34	1
Gross Beta	32.3		10.0	3.17	pCi/g		12/09/13 08:58	12/10/13 06:34	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.06			0.191	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Bismuth-212	1.68	U		1.69	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Bismuth-214	1.12			0.144	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Bismuth-210M	0.0475	U		0.157	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Cesium-134	-0.0520	U		0.172	pCi/g		12/12/13 15:18	01/03/14 09:25	1

Client Sample ID: DD-B-9_SUB
Date Collected: 12/03/13 08:50
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-9
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Cesium-137	0.0292	U		0.114	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Cobalt-57	0.0126	U		0.0962	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Cobalt-60	0.0552	U		0.143	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Lead-212	**1.89**			0.208	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Lead-214	**1.39**			0.254	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Potassium-40	**22.5**			1.32	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Protactinium-231	0.475	U		3.51	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Protactinium-234	-0.118	U		0.492	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Radium-224	**2.54**			2.39	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Thallium-208	**0.551**			0.109	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Thorium-227	0.0820	U		2.60	pCi/g		12/12/13 15:18	01/03/14 09:25	1
Thorium-234	1.01	U		3.51	pCi/g		12/12/13 15:18	01/03/14 09:25	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**0.990**		1.00	0.119	pCi/g		12/09/13 08:58	01/01/14 15:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*12/09/13 08:58*	*01/01/14 15:59*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.37**		1.00	0.354	pCi/g		12/09/13 09:06	12/30/13 11:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*12/09/13 09:06*	*12/30/13 11:00*	*1*
Y Carrier	*90.1*		*40 - 110*	*12/09/13 09:06*	*12/30/13 11:00*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.59**		1.00	0.0798	pCi/g		01/22/14 08:12	01/24/14 19:13	1
Thorium-230	**1.25**		1.00	0.0753	pCi/g		01/22/14 08:12	01/24/14 19:13	1
Thorium-232	**1.36**		1.00	0.0638	pCi/g		01/22/14 08:12	01/24/14 19:13	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*76.8*		*30 - 110*	*01/22/14 08:12*	*01/24/14 19:13*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.977**		1.00	0.0548	pCi/g		01/06/14 12:37	01/16/14 23:40	1
Uranium-235/236	0.0131	U	1.00	0.0394	pCi/g		01/06/14 12:37	01/16/14 23:40	1
Uranium-238	**1.03**		1.00	0.0479	pCi/g		01/06/14 12:37	01/16/14 23:40	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*88.4*		*30 - 110*	*01/06/14 12:37*	*01/16/14 23:40*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: DD-B-6_SS
Date Collected: 12/03/13 09:25
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-10
Matrix: Solid
Percent Solids: 92.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	6.8	U	420	6.8	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-2	7.2	U	420	7.2	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-3	7.8	U	420	7.8	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-4	330	U	420	330	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-5	310	U	420	310	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-6	310	U	420	310	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-7	290	U	420	290	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-8	310	U	420	310	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-9	330	U	420	330	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-10	210	U	420	210	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-11	**1500**		420	320	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-12/13	330	U	850	330	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-14	270	U	420	270	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-15	340	U	420	340	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-16	43	U	420	43	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-17	30	U	420	30	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-18/30	26	U	850	26	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-19	33	U	420	33	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-20/28	**53**	**J B**	850	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-21/33	14	U	850	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-22	16	U	420	16	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-23	14	U	420	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-24	22	U	420	22	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-25	15	U	420	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-26/29	15	U	850	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-27	23	U	420	23	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-31	**48**	**J B**	420	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-32	18	U	420	18	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-34	15	U	420	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-35	**62**	**J q**	420	17	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-36	15	U	420	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-37	20	U q	420	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-38	16	U	420	16	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-39	15	U	420	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-40/71	**36**	**J q**	850	12	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-41	16	U	420	16	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-42	14	U	420	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-43	14	U	420	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-44/47/65	**78**	**J q B**	1300	12	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-45	14	U	420	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-46	15	U	420	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-48	12	U	420	12	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-49/69	**52**	**J**	850	10	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-50/53	11	U	850	11	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-51	11	U	420	11	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-52	**190**	**J B**	420	13	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-54	15	U	420	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-55	15	U	420	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-56	**48**	**J q**	420	16	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: DD-B-6_SS
Date Collected: 12/03/13 09:25
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-10
Matrix: Solid
Percent Solids: 92.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	14	U	420	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-58	15	U	420	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-59/62/75	9.0	U	1300	9.0	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-60	15	U	420	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-61/70/74/76	**260**	**J B**	1700	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-63	14	U	420	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-64	**30**	**J q**	420	8.5	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-66	**110**	**J**	420	16	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-67	14	U	420	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-68	13	U	420	13	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-72	14	U	420	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-73	9.6	U	420	9.6	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-77	**61**	**q**	42	18	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-78	16	U	420	16	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-79	14	U	420	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-80	14	U	420	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-81	20	U	42	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-82	**94**	**J q**	420	28	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-83	**32**	**J**	420	31	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-84	**100**	**J**	420	26	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-85/116/117	**87**	**J q**	1300	19	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-86/87/97/108/119/125	**400**	**J B**	2500	19	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-88/91	**34**	**J q**	850	22	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-89	24	U	420	24	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-90/101/113	**510**	**J B**	1300	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-92	**69**	**J q**	420	23	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-93/100	22	U	850	22	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-107/124	**34**	**J q**	850	18	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-94	23	U	420	23	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-95	**280**	**J B**	420	21	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-96	7.3	U	420	7.3	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-98/102	20	U	850	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-99	**250**	**J B**	420	23	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-103	20	U	420	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-104	7.1	U	420	7.1	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-105	**490**		42	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-106	20	U	420	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-110/115	**860**	**B**	850	17	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-109	**46**	**J q**	420	17	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-111	16	U	420	16	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-112	15	U	420	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-114	19	U	42	19	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-118	**820**	**B**	42	19	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-120	17	U	420	17	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-121	16	U	420	16	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-122	20	U	420	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-123	20	U	42	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-126	24	U	42	24	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-127	19	U	420	19	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: DD-B-6_SS
Date Collected: 12/03/13 09:25
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-10
Matrix: Solid
Percent Solids: 92.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-128/166	260	J	850	21	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-129/138/163	1300	B	1300	22	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-130	60	J q	420	28	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-131	27	U	420	27	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-132	300	J	420	25	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-133	25	U	420	25	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-134/143	32	J q	850	26	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-135/151	160	J	850	23	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-136	48	J	420	17	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-137	44	J q	420	22	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-139/140	22	U	850	22	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-141	160	J	420	24	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-142	25	U	420	25	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-144	33	J	420	22	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-145	16	U	420	16	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-146	130	J	420	24	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-147/149	510	J B	850	22	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-148	22	U	420	22	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-150	15	U	420	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-152	15	U	420	15	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-153/168	900	B	850	19	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-154	20	U	420	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-155	17	U	420	17	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-156/157	200		85	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-158	150	J	420	17	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-159	11	U	420	11	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-160	20	U	420	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-161	17	U	420	17	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-162	11	U	420	11	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-164	64	J	420	19	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-165	20	U	420	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-167	61	q	42	10	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-169	13	U	42	13	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-170	400	J	420	13	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-171/173	79	J q	850	11	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-172	38	J q	420	12	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-174	290	J	420	12	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-175	12	U	420	12	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-176	17	J q	420	8.3	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-177	190	J	420	12	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-178	46	J q	420	13	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-179	67	J	420	9.0	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-180/193	870		850	9.5	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-181	9.7	U	420	9.7	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-182	12	U	420	12	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-183	160	J	420	8.8	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-184	9.3	U	420	9.3	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-185	29	J	420	11	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-186	8.8	U	420	8.8	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10

Client Sample ID: DD-B-6_SS
Date Collected: 12/03/13 09:25
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-10
Matrix: Solid
Percent Solids: 92.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-187	**310**	**J**	420	12	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-188	9.6	U	420	9.6	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-189	13	U	42	13	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-190	**68**	**J q**	420	8.9	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-191	**15**	**J q**	420	8.6	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-192	8.9	U	420	8.9	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-194	**220**	**J**	420	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-195	**58**	**J**	420	13	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-196	**130**	**J**	420	9.0	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-197	**41**	**J**	420	6.0	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-198/199	**300**	**J**	850	9.3	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-200	**24**	**J**	420	6.1	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-201	**59**	**J**	420	6.0	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-202	**61**	**J**	420	7.7	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-203	**180**	**J**	420	8.3	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-204	6.3	U	420	6.3	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-205	**15**	**J q**	420	9.2	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-206	**360**	**J**	420	13	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-207	**340**	**J**	420	10	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-208	**300**	**J**	420	12	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
PCB-209	**27000**	**B**	420	9.4	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
Total Monochlorobiphenyls	7.8	U	4200	7.8	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
Total Dichlorobiphenyls	**1500**	**J**	4200	310	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
Total Trichlorobiphenyls	**180**	**J q B**	4200	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
Total Tetrachlorobiphenyls	**870**	**J q B**	4200	14	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
Total Pentachlorobiphenyls	**4100**	**J q B**	4200	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
Total Hexachlorobiphenyls	**4400**	**q B**	4200	20	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
Total Heptachlorobiphenyls	**2600**	**J q**	4200	11	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
Total Octachlorobiphenyls	**1100**	**J q**	4200	8.7	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
Total Nonachlorobiphenyls	**1000**	**J**	4200	12	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10
Polychlorinated biphenyls, Total	**43000**	**q B**	4200	43	pg/g	☼	12/30/13 13:50	02/09/14 03:46	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*36*		*5 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-15L	*44*		*5 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-123L	*60*		*10 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-114L	*60*		*10 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-202L	*67*		*10 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-3L	*41*		*5 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-118L	*59*		*10 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-126L	*63*		*10 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-206L	*82*		*10 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-169L	*73*		*10 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-37L	*41*		*5 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-19L	*39*		*5 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-188L	*56*		*10 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-54L	*38*		*5 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-156L/157L	*73*		*10 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-167L	*74*		*10 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*
PCB-209L	*90*		*10 - 145*	*12/30/13 13:50*	*02/09/14 03:46*	*10*

Client Sample ID: DD-B-6_SS
Date Collected: 12/03/13 09:25
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-10
Matrix: Solid
Percent Solids: 92.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-189L	69		10 - 145	12/30/13 13:50	02/09/14 03:46	10
PCB-105L	61		10 - 145	12/30/13 13:50	02/09/14 03:46	10
PCB-208L	78		10 - 145	12/30/13 13:50	02/09/14 03:46	10
PCB-1L	35		5 - 145	12/30/13 13:50	02/09/14 03:46	10
PCB-104L	45		10 - 145	12/30/13 13:50	02/09/14 03:46	10
PCB-81L	53		10 - 145	12/30/13 13:50	02/09/14 03:46	10
PCB-77L	53		10 - 145	12/30/13 13:50	02/09/14 03:46	10
PCB-205L	84		10 - 145	12/30/13 13:50	02/09/14 03:46	10
PCB-155L	49		10 - 145	12/30/13 13:50	02/09/14 03:46	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	59		5 - 145	12/30/13 13:50	02/09/14 03:46	10
PCB-111L	64		10 - 145	12/30/13 13:50	02/09/14 03:46	10
PCB-178L	78		10 - 145	12/30/13 13:50	02/09/14 03:46	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		100	73	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Antimony	3.4	U	5.2	3.4	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Barium	**180**		26	1.3	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Beryllium	0.88	U *	2.6	0.88	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Cadmium	0.52	U	2.6	0.52	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Calcium	**16000**		1300	70	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Chromium	**49**		5.2	1.6	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Cobalt	**9.0**	**J**	26	4.9	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Copper	**19**		13	3.8	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Iron	**16000**		52	16	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Lead	**58**		5.2	0.90	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Magnesium	**11000**		520	44	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Manganese	**1200**	*****	5.2	0.81	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Nickel	**32**		21	1.2	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Potassium	3500	U	5200	3500	mg/Kg	☼	12/06/13 07:38	01/09/14 22:28	10
Selenium	1.5	U	7.9	1.5	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Silver	1.2	U	5.2	1.2	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Sodium	**750**	**J**	1000	490	mg/Kg	☼	12/06/13 07:38	01/09/14 22:28	10
Titanium	**920**		10	3.3	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Vanadium	**150**		26	6.6	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5
Zinc	**52**		26	10	mg/Kg	☼	12/06/13 07:38	01/08/14 15:34	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.4**	**J**	5.2	1.4	mg/Kg	☼	12/06/13 07:42	12/31/13 01:41	10
Niobium	**25**		13	2.0	mg/Kg	☼	12/06/13 07:42	12/31/13 01:41	10
Thallium	0.80	U	2.6	0.80	mg/Kg	☼	12/06/13 07:42	12/31/13 01:41	10
Uranium	**8.3**		0.52	0.10	mg/Kg	☼	12/06/13 07:42	12/31/13 01:41	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**	**J**	0.031	0.010	mg/Kg	☼	12/09/13 07:33	12/11/13 12:28	1

Client Sample ID: DD-B-6_SS

Lab Sample ID: 680-96723-10

Date Collected: 12/03/13 09:25
Matrix: Solid
Date Received: 12/04/13 09:20
Percent Solids: 92.8

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	4.1	H	0.22	0.043	mg/Kg	☼		01/08/14 09:57	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3700	H	110	11	mg/Kg	☼		01/08/14 10:14	20

General Chemistry - Soluble - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200	H	110	11	mg/Kg	☼		01/08/14 14:04	50

Client Sample ID: DD-B-6_SUB

Lab Sample ID: 680-96723-11

Date Collected: 12/03/13 10:15
Matrix: Solid
Date Received: 12/04/13 09:20
Percent Solids: 94.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		100	73	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Antimony	3.3	U	5.2	3.3	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Barium	140		26	1.3	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Beryllium	0.88	U *	2.6	0.88	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Cadmium	0.52	U	2.6	0.52	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Calcium	26000		1300	69	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Chromium	11		5.2	1.6	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Cobalt	8.9	J	26	4.9	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Copper	17		13	3.8	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Iron	15000		52	15	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Lead	8.1		5.2	0.89	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Magnesium	11000		520	43	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Manganese	330	*	5.2	0.80	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Nickel	18	J	21	1.2	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Potassium	3500	U	5200	3500	mg/Kg	☼	12/06/13 07:38	01/09/14 22:31	10
Selenium	1.5	U	7.8	1.5	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Silver	1.2	U	5.2	1.2	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Sodium	800	J	1000	490	mg/Kg	☼	12/06/13 07:38	01/09/14 22:31	10
Titanium	810		10	3.3	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Vanadium	43		26	6.5	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5
Zinc	37		26	10	mg/Kg	☼	12/06/13 07:38	01/08/14 15:38	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2	J	5.2	1.3	mg/Kg	☼	12/06/13 07:42	12/31/13 01:48	10
Niobium	6.7	J	13	2.0	mg/Kg	☼	12/06/13 07:42	12/31/13 01:48	10
Thallium	0.79	U	2.6	0.79	mg/Kg	☼	12/06/13 07:42	12/31/13 01:48	10
Uranium	1.5		0.52	0.10	mg/Kg	☼	12/06/13 07:42	12/31/13 01:48	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.033	0.011	mg/Kg	☼	12/09/13 07:33	12/11/13 12:33	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: DD-B-6_SUB

Lab Sample ID: 680-96723-11

Date Collected: 12/03/13 10:15
Matrix: Solid
Date Received: 12/04/13 09:20
Percent Solids: 94.7

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.45	H	0.21	0.042	mg/Kg	☼		01/08/14 10:46	1
Sulfate	110	H	5.3	0.53	mg/Kg	☼		01/08/14 10:46	1

General Chemistry - Soluble - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120	H	42	4.2	mg/Kg	☼		01/08/14 14:20	20

Client Sample ID: P-B-4_SS

Lab Sample ID: 680-96723-12

Date Collected: 12/03/13 11:30
Matrix: Solid
Date Received: 12/04/13 09:20
Percent Solids: 90.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	93	J B	440	5.6	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-2	71	J B	440	6.1	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-3	130	J B	440	6.9	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-4	220	U	440	220	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-5	190	U	440	190	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-6	200	U	440	200	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-7	180	U	440	180	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-8	190	U	440	190	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-9	210	U	440	210	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-10	150	U	440	150	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-11	200	U	440	200	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-12/13	200	U	880	200	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-14	170	U	440	170	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-15	220	J	440	220	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-16	33	U	440	33	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-17	23	U	440	23	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-18/30	22	J q	880	20	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-19	25	U	440	25	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-20/28	76	J B	880	15	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-21/33	29	J B	880	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-22	25	J	440	16	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-23	14	U	440	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-24	17	U	440	17	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-25	14	U	440	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-26/29	14	U	880	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-27	17	U	440	17	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-31	45	J q B	440	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-32	13	U	440	13	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-34	14	U	440	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-35	16	U	440	16	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-36	14	U	440	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-37	83	J	440	20	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-38	15	U	440	15	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-39	14	U	440	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-40/71	51	J	880	11	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-41	14	U	440	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-42	13	J q	440	12	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: P-B-4_SS
Date Collected: 12/03/13 11:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-12
Matrix: Solid
Percent Solids: 90.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-43	13	U	440	13	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-44/47/65	**140**	**J B**	1300	11	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-45	12	U	440	12	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-46	13	U	440	13	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-48	11	U	440	11	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-49/69	**71**	**J**	880	9.2	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-50/53	10	U	880	10	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-51	10	U	440	10	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-52	**280**	**J B**	440	12	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-54	11	U	440	11	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-55	17	U	440	17	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-56	**81**	**J**	440	19	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-57	17	U	440	17	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-58	17	U	440	17	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-59/62/75	**14**	**J q**	1300	8.1	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-60	**41**	**J q**	440	18	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-61/70/74/76	**430**	**J B**	1800	17	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-63	16	U	440	16	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-64	**64**	**J**	440	7.7	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-66	**180**	**J**	440	19	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-67	16	U	440	16	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-68	15	U	440	15	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-72	17	U	440	17	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-73	8.7	U	440	8.7	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-77	**75**		44	24	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-78	19	U	440	19	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-79	17	U	440	17	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-80	16	U	440	16	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-81	20	U	44	20	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-82	**160**	**J**	440	36	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-83	**43**	**J q**	440	39	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-84	**210**	**J**	440	33	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-85/116/117	**170**	**J q**	1300	24	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-86/87/97/108/119/125	**710**	**J B**	2600	25	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-88/91	**78**	**J q**	880	27	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-89	31	U	440	31	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-90/101/113	**930**	**J B**	1300	25	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-92	**150**	**J**	440	29	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-93/100	28	U	880	28	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-107/124	**59**	**J q**	880	23	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-94	29	U	440	29	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-95	**530**	**B**	440	27	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-96	7.0	U	440	7.0	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-98/102	26	U	880	26	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-99	**470**	**B**	440	29	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-103	26	U	440	26	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-104	7.3	U	440	7.3	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-105	**650**		44	27	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-106	25	U	440	25	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: P-B-4_SS
Date Collected: 12/03/13 11:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-12
Matrix: Solid
Percent Solids: 90.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-110/115	1400	B	880	22	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-109	84	J q	440	21	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-111	20	U	440	20	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-112	19	U	440	19	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-114	37	J	44	26	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-118	1100	B	44	22	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-120	21	U	440	21	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-121	20	U	440	20	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-122	25	U	440	25	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-123	24	J	44	23	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-126	31	U	44	31	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-127	25	U	440	25	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-128/166	250	J	880	18	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-129/138/163	1300	B	1300	19	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-130	90	J	440	24	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-131	23	U	440	23	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-132	320	J	440	21	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-133	21	U	440	21	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-134/143	22	U	880	22	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-135/151	140	J q	880	19	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-136	59	J	440	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-137	60	J	440	19	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-139/140	18	U	880	18	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-141	170	J	440	20	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-142	21	U	440	21	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-144	30	J q	440	19	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-145	13	U	440	13	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-146	130	J	440	20	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-147/149	550	J B	880	19	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-148	19	U	440	19	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-150	13	U	440	13	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-152	13	U	440	13	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-153/168	810	J B	880	16	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-154	17	U	440	17	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-155	14	U	440	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-156/157	260		88	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-158	160	J	440	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-159	11	U	440	11	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-160	17	U	440	17	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-161	14	U	440	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-162	11	U	440	11	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-164	65	J q	440	16	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-165	17	U	440	17	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-167	87		44	10	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-169	13	U	44	13	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-170	210	J q	440	13	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-171/173	110	J	880	12	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-172	83	J	440	13	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-174	170	J	440	13	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10

Client Sample ID: P-B-4_SS
Date Collected: 12/03/13 11:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-12
Matrix: Solid
Percent Solids: 90.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-175	29	J	440	12	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-176	27	J	440	8.3	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-177	89	J q	440	13	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-178	26	J q	440	13	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-179	32	J q	440	9.0	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-180/193	560	J	880	10	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-181	10	U	440	10	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-182	11	U	440	11	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-183	110	J	440	9.3	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-184	34	J	440	9.2	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-185	26	J	440	11	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-186	8.8	U	440	8.8	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-187	150	J	440	12	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-188	9.2	U	440	9.2	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-189	27	J q	44	11	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-190	40	J q	440	9.4	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-191	19	J	440	9.1	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-192	9.4	U	440	9.4	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-194	190	J	440	11	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-195	38	J q	440	10	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-196	130	J	440	12	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-197	91	J	440	7.8	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-198/199	160	J	880	12	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-200	23	J	440	7.9	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-201	91	J	440	7.8	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-202	40	J	440	9.4	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-203	120	J q	440	11	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-204	41	J	440	8.2	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-205	38	J q	440	7.7	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-206	750		440	10	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-207	800		440	8.0	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-208	540		440	10	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
PCB-209	30000	B	440	10	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
Total Monochlorobiphenyls	300	J B	4400	6.2	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
Total Dichlorobiphenyls	220	J	4400	190	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
Total Trichlorobiphenyls	280	J q B	4400	17	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
Total Tetrachlorobiphenyls	1400	J q B	4400	14	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
Total Pentachlorobiphenyls	6800	q B	4400	25	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
Total Hexachlorobiphenyls	4400	q B	4400	17	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
Total Heptachlorobiphenyls	1700	J q	4400	11	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
Total Octachlorobiphenyls	970	J q	4400	9.5	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
Total Nonachlorobiphenyls	2100	J	4400	9.5	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10
Polychlorinated biphenyls, Total	49000	q B	4400	31	pg/g	☼	12/30/13 13:59	02/09/14 05:01	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*35*		*5 - 145*	*12/30/13 13:59*	*02/09/14 05:01*	*10*
PCB-15L	*39*		*5 - 145*	*12/30/13 13:59*	*02/09/14 05:01*	*10*
PCB-123L	*47*		*10 - 145*	*12/30/13 13:59*	*02/09/14 05:01*	*10*
PCB-114L	*44*		*10 - 145*	*12/30/13 13:59*	*02/09/14 05:01*	*10*
PCB-202L	*56*		*10 - 145*	*12/30/13 13:59*	*02/09/14 05:01*	*10*

Client Sample ID: P-B-4_SS
Date Collected: 12/03/13 11:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-12
Matrix: Solid
Percent Solids: 90.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-3L	39		5 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-118L	47		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-126L	46		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-206L	67		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-169L	55		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-37L	33		5 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-19L	30		5 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-188L	48		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-54L	30		5 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-156L/157L	52		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-167L	57		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-209L	69		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-189L	51		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-105L	45		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-208L	63		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-1L	35		5 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-104L	33		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-81L	47		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-77L	45		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-205L	62		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-155L	40		10 - 145	12/30/13 13:59	02/09/14 05:01	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	45		5 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-111L	59		10 - 145	12/30/13 13:59	02/09/14 05:01	10
PCB-178L	77		10 - 145	12/30/13 13:59	02/09/14 05:01	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		110	75	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Antimony	3.4	U	5.3	3.4	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Barium	**260**		27	1.3	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Beryllium	0.90	U *	2.7	0.90	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Cadmium	0.53	U	2.7	0.53	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Calcium	**28000**		1300	71	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Chromium	**56**		5.3	1.6	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Cobalt	**11**	**J**	27	5.0	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Copper	**25**		13	3.9	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Iron	**18000**		53	16	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Lead	**21**		5.3	0.92	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Magnesium	**12000**		530	44	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Manganese	**1200**	*****	5.3	0.82	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Nickel	**23**		21	1.2	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Potassium	3600	U	5300	3600	mg/Kg	☼	12/06/13 07:38	01/09/14 22:35	10
Selenium	1.5	U	8.0	1.5	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Silver	1.2	U	5.3	1.2	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Sodium	**1300**		1100	500	mg/Kg	☼	12/06/13 07:38	01/09/14 22:35	10
Titanium	**2300**		11	3.4	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Vanadium	**170**		27	6.7	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5
Zinc	**52**		27	11	mg/Kg	☼	12/06/13 07:38	01/08/14 15:42	5

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: P-B-4_SS

Lab Sample ID: 680-96723-12
Date Collected: 12/03/13 11:30
Matrix: Solid
Date Received: 12/04/13 09:20
Percent Solids: 90.6

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		5.3	1.4	mg/Kg	☼	12/06/13 07:42	12/31/13 01:55	10
Niobium	15		13	2.0	mg/Kg	☼	12/06/13 07:42	12/31/13 01:55	10
Thallium	0.81	U	2.7	0.81	mg/Kg	☼	12/06/13 07:42	12/31/13 01:55	10
Uranium	3.3		0.53	0.11	mg/Kg	☼	12/06/13 07:42	12/31/13 01:55	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	J	0.035	0.012	mg/Kg	☼	12/09/13 07:33	12/11/13 12:35	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	31	H	4.4	0.88	mg/Kg	☼		01/08/14 11:52	20
Sulfate	1400	H	110	11	mg/Kg	☼		01/08/14 11:52	20

General Chemistry - Soluble - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200	H	110	11	mg/Kg	☼		01/08/14 14:36	50

Client Sample ID: P-B-4_SUB

Lab Sample ID: 680-96723-13
Date Collected: 12/03/13 12:30
Matrix: Solid
Date Received: 12/04/13 09:20
Percent Solids: 93.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		91	64	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Antimony	2.9	U	4.6	2.9	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Barium	240		23	1.1	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Beryllium	0.77	U *	2.3	0.77	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Cadmium	0.46	U	2.3	0.46	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Calcium	26000		1100	61	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Chromium	11		4.6	1.4	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Cobalt	7.6	J	23	4.3	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Copper	27		11	3.3	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Iron	16000		46	14	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Lead	17		4.6	0.78	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Magnesium	9800		460	38	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Manganese	600	*	4.6	0.70	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Nickel	15	J	18	1.0	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Potassium	3100	U	4600	3100	mg/Kg	☼	12/06/13 07:38	01/09/14 22:39	10
Selenium	1.3	U	6.8	1.3	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Silver	1.1	U	4.6	1.1	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Sodium	790	J	910	430	mg/Kg	☼	12/06/13 07:38	01/09/14 22:39	10
Titanium	1100		9.1	2.9	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Vanadium	42		23	5.7	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5
Zinc	49		23	9.0	mg/Kg	☼	12/06/13 07:38	01/08/14 15:53	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2	J	4.6	1.2	mg/Kg	☼	12/06/13 07:42	12/31/13 02:01	10
Niobium	1.7	U	11	1.7	mg/Kg	☼	12/06/13 07:42	12/31/13 02:01	10
Thallium	0.69	U	2.3	0.69	mg/Kg	☼	12/06/13 07:42	12/31/13 02:01	10

Client Sample ID: P-B-4_SUB

Lab Sample ID: 680-96723-13

Date Collected: 12/03/13 12:30

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.85		0.46	0.091	mg/Kg	☼	12/06/13 07:42	12/31/13 02:01	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.034	0.011	mg/Kg	☼	12/09/13 07:33	12/11/13 12:36	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	48	H	4.2	0.85	mg/Kg	☼		01/08/14 12:25	20
Sulfate	220	H	110	11	mg/Kg	☼		01/08/14 12:25	20

General Chemistry - Soluble - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100	H	210	21	mg/Kg	☼		01/08/14 14:53	100

Client Sample ID: RINSATE

Lab Sample ID: 680-96723-14

Date Collected: 12/03/13 12:30

Matrix: Water

Date Received: 12/04/13 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.98	U	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Acenaphthylene	0.98	U	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Anthracene	0.98	U	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Benzo[a]anthracene	0.98	U	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Benzo[b]fluoranthene	0.98	U	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Benzo[k]fluoranthene	0.98	U	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Benzo[g,h,i]perylene	0.98	U	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Benzo[a]pyrene	0.98	U *	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Chrysene	0.98	U	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Dibenz(a,h)anthracene	0.98	U	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Fluoranthene	0.98	U *	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Fluorene	0.98	U *	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Indeno[1,2,3-cd]pyrene	0.98	U	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Naphthalene	0.98	U	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Phenanthrene	0.98	U	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1
Pyrene	0.98	U	9.8	0.98	ug/L		12/05/13 09:43	01/11/14 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*48*		*10 - 74*	*12/05/13 09:43*	*01/11/14 20:19*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*47 - 103*	*12/05/13 09:43*	*01/11/14 20:19*	*1*
Nitrobenzene-d5 (Surr)	*81*		*31 - 105*	*12/05/13 09:43*	*01/11/14 20:19*	*1*
Phenol-d5 (Surr)	*28*		*10 - 50*	*12/05/13 09:43*	*01/11/14 20:19*	*1*
Terphenyl-d14 (Surr)	*80*		*68 - 116*	*12/05/13 09:43*	*01/11/14 20:19*	*1*
2-Fluorobiphenyl (Surr)	*77*		*30 - 99*	*12/05/13 09:43*	*01/11/14 20:19*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	21	J	200	1.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-2	1.4	U	200	1.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-3	6.2	J	200	1.5	pg/L		01/09/14 13:29	02/07/14 19:37	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: RINSATE
Date Collected: 12/03/13 12:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-14
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-4	61	U	200	61	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-5	46	U	200	46	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-6	46	U	200	46	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-7	43	U	200	43	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-8	45	U	200	45	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-9	48	U	200	48	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-10	36	U	200	36	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-11	47	U	200	47	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-12/13	48	U	390	48	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-14	40	U	200	40	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-15	47	U	200	47	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-16	11	U	200	11	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-17	8.1	U	200	8.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-18/30	6.9	U	390	6.9	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-19	11	U	200	11	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-20/28	**9.1**	**J B**	390	3.6	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-21/33	**5.1**	**J q B**	390	3.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-22	3.9	U	200	3.9	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-23	3.3	U	200	3.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-24	5.9	U	200	5.9	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-25	3.4	U	200	3.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-26/29	3.4	U	390	3.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-27	6.0	U	200	6.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-31	**8.2**	**J q B**	200	3.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-32	4.7	U	200	4.7	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-34	3.4	U	200	3.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-35	4.0	U	200	4.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-36	3.5	U	200	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-37	**4.4**	**J q**	200	4.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-38	3.7	U	200	3.7	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-39	3.5	U	200	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-40/71	3.1	U	390	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-41	4.0	U	200	4.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-42	3.5	U	200	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-43	3.5	U	200	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-44/47/65	**9.9**	**J q B**	590	3.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-45	3.5	U	200	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-46	3.7	U	200	3.7	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-48	3.2	U	200	3.2	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-49/69	**4.0**	**J q B**	390	2.6	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-50/53	2.9	U	390	2.9	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-51	2.9	U	200	2.9	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-52	**20**	**J B**	200	3.2	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-54	4.7	U	200	4.7	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-55	3.3	U	200	3.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-56	3.5	U	200	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-57	3.2	U	200	3.2	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-58	3.2	U	200	3.2	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-59/62/75	2.3	U	590	2.3	pg/L		01/09/14 13:29	02/07/14 19:37	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: RINSATE
Date Collected: 12/03/13 12:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-14
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-60	3.4	U	200	3.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-61/70/74/76	**8.3**	**J q B**	780	3.2	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-63	3.0	U	200	3.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-64	**5.2**	**J q B**	200	2.2	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-66	3.6	U	200	3.6	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-67	3.0	U	200	3.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-68	2.9	U	200	2.9	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-72	3.1	U	200	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-73	2.5	U	200	2.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-77	3.9	U	20	3.9	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-78	3.6	U	200	3.6	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-79	3.1	U	200	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-80	3.0	U	200	3.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-81	3.8	U	20	3.8	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-82	5.0	U	200	5.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-83	5.4	U	200	5.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-84	4.5	U	200	4.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-85/116/117	3.3	U	590	3.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-86/87/97/108/119/125	3.4	U	1200	3.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-88/91	3.8	U	390	3.8	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-89	4.3	U	200	4.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-90/101/113	**6.5**	**J q B**	590	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-92	4.0	U	200	4.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-93/100	3.8	U	390	3.8	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-107/124	3.1	U	390	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-94	4.0	U	200	4.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-95	**7.6**	**J q B**	200	3.8	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-96	2.3	U	200	2.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-98/102	3.6	U	390	3.6	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-99	4.0	U	200	4.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-103	3.5	U	200	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-104	2.8	U	200	2.8	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-105	3.5	U	20	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-106	3.4	U	200	3.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-110/115	**7.7**	**J B**	390	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-109	2.9	U	200	2.9	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-111	2.8	U	200	2.8	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-112	2.7	U	200	2.7	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-114	3.2	U	20	3.2	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-115	**7.7**	**J B**	390	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-118	**6.0**	**J B**	20	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-120	3.0	U	200	3.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-121	2.8	U	200	2.8	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-122	3.5	U	200	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-123	3.2	U	20	3.2	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-126	3.7	U	20	3.7	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-127	3.4	U	200	3.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-128/166	3.8	U	390	3.8	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-129/138/163	**4.5**	**J B**	590	4.0	pg/L		01/09/14 13:29	02/07/14 19:37	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: RINSATE
Date Collected: 12/03/13 12:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-14
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-130	5.1	U	200	5.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-131	4.8	U	200	4.8	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-132	4.6	U	200	4.6	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-133	4.5	U	200	4.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-134/143	4.6	U	390	4.6	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-135/151	4.1	U	390	4.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-136	3.0	U	200	3.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-137	4.0	U	200	4.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-139/140	3.9	U	390	3.9	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-141	4.3	U	200	4.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-142	4.5	U	200	4.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-144	4.0	U	200	4.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-145	2.9	U	200	2.9	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-146	4.3	U	200	4.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-147/149	**6.2**	**J B**	390	4.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-148	4.0	U	200	4.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-150	2.7	U	200	2.7	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-152	2.7	U	200	2.7	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-153/168	**5.1**	**J**	390	3.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-154	3.5	U	200	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-155	4.1	U	200	4.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-156/157	3.8	U	39	3.8	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-158	3.1	U	200	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-159	3.4	U	200	3.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-160	3.5	U	200	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-161	3.1	U	200	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-162	3.3	U	200	3.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-164	3.4	U	200	3.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-165	3.5	U	200	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-167	3.1	U	20	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-169	3.6	U	20	3.6	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-170	3.3	U	200	3.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-171/173	3.0	U	390	3.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-172	3.1	U	200	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-174	3.1	U	200	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-175	4.2	U	200	4.2	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-176	2.8	U	200	2.8	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-177	3.1	U	200	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-178	4.3	U	200	4.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-179	3.0	U	200	3.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-180/193	2.5	U	390	2.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-181	2.5	U	200	2.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-182	3.9	U	200	3.9	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-183	2.3	U	200	2.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-184	3.1	U	200	3.1	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-185	2.7	U	200	2.7	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-186	2.9	U	200	2.9	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-187	4.0	U	200	4.0	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-188	3.7	U	200	3.7	pg/L		01/09/14 13:29	02/07/14 19:37	1

Client Sample ID: RINSATE
Date Collected: 12/03/13 12:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-14
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-189	4.2	U	20	4.2	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-190	2.3	U	200	2.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-191	2.2	U	200	2.2	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-192	2.3	U	200	2.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-194	3.8	U	200	3.8	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-195	3.6	U	200	3.6	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-196	3.4	U	200	3.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-197	2.3	U	200	2.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-198/199	3.6	U	390	3.6	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-200	2.3	U	200	2.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-201	2.3	U	200	2.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-202	3.4	U	200	3.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-203	3.2	U	200	3.2	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-204	2.4	U	200	2.4	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-205	2.3	U	200	2.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-206	3.3	U	200	3.3	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-207	**4.5**	**J**	200	2.6	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-208	3.5	U	200	3.5	pg/L		01/09/14 13:29	02/07/14 19:37	1
PCB-209	**68**	**J B**	200	2.6	pg/L		01/09/14 13:29	02/07/14 19:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*44*		*5 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-3L	*52*		*5 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-4L	*47*		*5 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-15L	*63*		*5 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-19L	*54*		*5 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-37L	*68*		*5 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-54L	*41*	*q*	*5 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-77L	*72*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-81L	*71*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-104L	*38*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-105L	*65*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-114L	*64*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-118L	*65*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-123L	*63*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-126L	*70*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-155L	*34*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-156L/157L	*69*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-167L	*65*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-169L	*74*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-188L	*39*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-189L	*66*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-202L	*50*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-205L	*75*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-206L	*78*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-208L	*66*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*
PCB-209L	*77*		*10 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*75*		*5 - 145*	*01/09/14 13:29*	*02/07/14 19:37*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: RINSATE
Date Collected: 12/03/13 12:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-14
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-111L	76		10 - 145	01/09/14 13:29	02/07/14 19:37	1
PCB-178L	82		10 - 145	01/09/14 13:29	02/07/14 19:37	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	6.0	U	10	6.0	ug/L		01/03/14 17:29	01/08/14 13:43	1
Aluminum	80	U	200	80	ug/L		01/03/14 17:29	01/08/14 13:43	1
Barium	**12**	**J**	50	4.0	ug/L		01/03/14 17:29	01/08/14 13:43	1
Beryllium	0.61	U	5.0	0.61	ug/L		01/03/14 17:29	01/08/14 13:43	1
Calcium	**25000**		1000	110	ug/L		01/03/14 17:29	01/08/14 13:43	1
Cadmium	0.91	U	5.0	0.91	ug/L		01/03/14 17:29	01/08/14 13:43	1
Cobalt	4.9	U	50	4.9	ug/L		01/03/14 17:29	01/08/14 13:43	1
Chromium	3.1	U	10	3.1	ug/L		01/03/14 17:29	01/08/14 13:43	1
Copper	4.6	U	25	4.6	ug/L		01/03/14 17:29	01/08/14 13:43	1
Iron	28	U	100	28	ug/L		01/03/14 17:29	01/08/14 13:43	1
Potassium	**2700**	**J**	5000	1700	ug/L		01/03/14 17:29	01/08/14 13:43	1
Magnesium	**7700**		1000	130	ug/L		01/03/14 17:29	01/08/14 13:43	1
Manganese	**7.5**	**J**	15	3.3	ug/L		01/03/14 17:29	01/08/14 13:43	1
Sodium	**15000**		1000	320	ug/L		01/03/14 17:29	01/08/14 13:43	1
Nickel	13	U	40	13	ug/L		01/03/14 17:29	01/08/14 13:43	1
Lead	**1.7**	**J**	10	1.5	ug/L		01/03/14 17:29	01/08/14 13:43	1
Antimony	4.0	U	10	4.0	ug/L		01/03/14 17:29	01/08/14 13:43	1
Selenium	2.7	U	15	2.7	ug/L		01/03/14 17:29	01/08/14 13:43	1
Titanium	**2.7**	**J**	20	2.4	ug/L		01/03/14 17:29	01/08/14 13:43	1
Vanadium	4.1	U	50	4.1	ug/L		01/03/14 17:29	01/08/14 13:43	1
Zinc	**53**	**B**	20	5.2	ug/L		01/03/14 17:29	01/08/14 13:43	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		01/03/14 17:29	01/09/14 00:39	1
Niobium	**2.4**	**J**	25	2.2	ug/L		01/03/14 17:29	01/09/14 00:39	1
Thallium	**0.88**	**J**	2.0	0.55	ug/L		01/03/14 17:29	01/09/14 00:39	1
Uranium	0.23	U	1.0	0.23	ug/L		01/03/14 17:29	01/09/14 00:39	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		12/06/13 11:35	12/06/13 15:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.35**		0.020	0.0040	mg/L			12/04/13 12:47	1
Chloride	**4.6**		0.20	0.020	mg/L			12/04/13 12:47	1
Sulfate	**5.3**		0.50	0.050	mg/L			12/04/13 12:47	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	0.331	U	3.00	1.82	pCi/L		12/31/13 12:16	01/02/14 18:28	1
Gross Beta	**1.16**		4.00	0.896	pCi/L		12/31/13 12:16	01/02/14 18:28	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: RINSATE
Date Collected: 12/03/13 12:30
Date Received: 12/04/13 09:20

Lab Sample ID: 680-96723-14
Matrix: Water

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	8.47	U		32.1	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Bismuth-212	33.5	U		118	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Bismuth-214	-7.62	U		27.5	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Bismuth-210M	4.15	U		10.8	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Cesium-134	3.35	U		10.2	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Cesium-137	-0.251	U		11.4	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Cobalt-57	2.08	U		5.84	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Cobalt-60	-1.89	U		13.1	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Lead-212	-6.05	U		19.8	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Lead-214	6.52	U		23.4	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Potassium-40	-27.5	U		151	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Protactinium-231	-22.2	U		263	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Protactinium-234	11.6	U		29.8	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Radium-224	-44.1	U		200	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Thallium-208	-1.21	U		11.5	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Thorium-227	12.1	U		43.7	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Thorium-231	-4.59	U		43.0	pCi/L		12/23/13 17:56	01/11/14 04:34	1
Thorium-234	25.5	U		184	pCi/L		12/23/13 17:56	01/11/14 04:34	1

Method: 903.0 - Total Alpha-Emitting Radium Isotopes by GFPC

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.162		1.00	0.129	pCi/L		12/05/13 13:16	12/27/13 09:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*40 - 110*	*12/05/13 13:16*	*12/27/13 09:49*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	11.9		1.00	0.367	pCi/L		12/05/13 13:32	12/24/13 11:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*40 - 110*	*12/05/13 13:32*	*12/24/13 11:52*	*1*
Y Carrier	*81.5*		*40 - 110*	*12/05/13 13:32*	*12/24/13 11:52*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	-0.0349	U	1.00	0.244	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-230	0.113	U	1.00	0.145	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-232	0.0253	U	1.00	0.0759	pCi/L		01/22/14 08:57	01/23/14 22:10	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*75.3*		*30 - 110*	*01/22/14 08:57*	*01/23/14 22:10*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
U-238	0.000	U	1.00	0.0647	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-235/236	-0.00504	U	1.00	0.122	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-233/234	-0.00405	U	1.00	0.0984	pCi/L		01/09/14 09:41	01/16/14 23:39	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*86.7*		*30 - 110*	*01/09/14 09:41*	*01/16/14 23:39*	*1*

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

Lab Sample ID: MB 160-89913/1-A
Matrix: Water
Analysis Batch: 98088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Acenaphthylene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Anthracene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Benzo[a]anthracene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Benzo[b]fluoranthene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Benzo[k]fluoranthene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Benzo[g,h,i]perylene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Benzo[a]pyrene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Chrysene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Dibenz(a,h)anthracene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Fluoranthene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Fluorene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Indeno[1,2,3-cd]pyrene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Naphthalene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Phenanthrene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1
Pyrene	1.0	U	10	1.0	ug/L		12/05/13 09:43	01/11/14 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*69*		*10 - 74*	*12/05/13 09:43*	*01/11/14 16:29*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*47 - 103*	*12/05/13 09:43*	*01/11/14 16:29*	*1*
Nitrobenzene-d5 (Surr)	*73*		*31 - 105*	*12/05/13 09:43*	*01/11/14 16:29*	*1*
Phenol-d5 (Surr)	*56*	*X*	*10 - 50*	*12/05/13 09:43*	*01/11/14 16:29*	*1*
Terphenyl-d14 (Surr)	*80*		*68 - 116*	*12/05/13 09:43*	*01/11/14 16:29*	*1*
2-Fluorobiphenyl (Surr)	*70*		*30 - 99*	*12/05/13 09:43*	*01/11/14 16:29*	*1*

Lab Sample ID: LCS 160-89913/2-A
Matrix: Water
Analysis Batch: 98088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89913

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	100	87.7		ug/L		88	55 - 92
Acenaphthylene	100	89.0		ug/L		89	56 - 93
Anthracene	100	90.4		ug/L		90	60 - 93
Benzo[a]anthracene	100	96.3		ug/L		96	72 - 106
Benzo[b]fluoranthene	100	94.1		ug/L		94	67 - 103
Benzo[k]fluoranthene	100	94.1		ug/L		94	66 - 107
Benzo[g,h,i]perylene	100	90.0		ug/L		90	63 - 117
Benzo[a]pyrene	100	95.1	*	ug/L		95	62 - 94
Chrysene	100	90.5		ug/L		90	64 - 94
Dibenz(a,h)anthracene	100	92.8		ug/L		93	66 - 110
Fluoranthene	100	94.5	*	ug/L		94	63 - 93
Fluorene	100	90.3	*	ug/L		90	60 - 89
Indeno[1,2,3-cd]pyrene	100	89.6		ug/L		90	64 - 112
Naphthalene	100	76.1		ug/L		76	52 - 88
Phenanthrene	100	90.9		ug/L		91	60 - 93
Pyrene	100	92.9		ug/L		93	58 - 102

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

Lab Sample ID: LCS 160-89913/2-A
Matrix: Water
Analysis Batch: 98088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89913

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*71*		*10 - 74*
2,4,6-Tribromophenol (Surr)	*88*		*47 - 103*
Nitrobenzene-d5 (Surr)	*83*		*31 - 105*
Phenol-d5 (Surr)	*58*	*X*	*10 - 50*
Terphenyl-d14 (Surr)	*94*		*68 - 116*
2-Fluorobiphenyl (Surr)	*81*		*30 - 99*

Lab Sample ID: LCSD 160-89913/3-A
Matrix: Water
Analysis Batch: 98088

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89913

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			100	87.8		ug/L		88	55 - 92	0	20
Acenaphthylene			100	89.0		ug/L		89	56 - 93	0	20
Anthracene			100	92.1		ug/L		92	60 - 93	2	20
Benzo[a]anthracene			100	98.7		ug/L		99	72 - 106	2	20
Benzo[b]fluoranthene			100	97.5		ug/L		97	67 - 103	4	20
Benzo[k]fluoranthene			100	96.1		ug/L		96	66 - 107	2	20
Benzo[g,h,i]perylene			100	91.2		ug/L		91	63 - 117	1	20
Benzo[a]pyrene			100	96.7	*	ug/L		97	62 - 94	2	20
Chrysene			100	91.0		ug/L		91	64 - 94	1	20
Dibenz(a,h)anthracene			100	94.5		ug/L		94	66 - 110	2	20
Fluoranthene			100	96.0	*	ug/L		96	63 - 93	2	20
Fluorene			100	90.3	*	ug/L		90	60 - 89	0	20
Indeno[1,2,3-cd]pyrene			100	93.4		ug/L		93	64 - 112	4	20
Naphthalene			100	78.0		ug/L		78	52 - 88	2	20
Phenanthrene			100	93.3		ug/L		93	60 - 93	3	20
Pyrene			100	95.0		ug/L		95	58 - 102	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*73*		*10 - 74*
2,4,6-Tribromophenol (Surr)	*89*		*47 - 103*
Nitrobenzene-d5 (Surr)	*86*		*31 - 105*
Phenol-d5 (Surr)	*59*	*X*	*10 - 50*
Terphenyl-d14 (Surr)	*91*		*68 - 116*
2-Fluorobiphenyl (Surr)	*82*		*30 - 99*

Lab Sample ID: MB 160-92253/1-A
Matrix: Solid
Analysis Batch: 95077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Acenaphthylene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Anthracene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Benzo[a]anthracene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Benzo[b]fluoranthene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Benzo[k]fluoranthene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1

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

Lab Sample ID: MB 160-92253/1-A
Matrix: Solid
Analysis Batch: 95077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Benzo[a]pyrene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Chrysene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Dibenz(a,h)anthracene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Fluoranthene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Fluorene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Indeno[1,2,3-cd]pyrene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Naphthalene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Phenanthrene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1
Pyrene	33	U	330	33	ug/Kg		12/16/13 13:12	12/26/13 17:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*85*		*53 - 97*	*12/16/13 13:12*	*12/26/13 17:17*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*46 - 111*	*12/16/13 13:12*	*12/26/13 17:17*	*1*
Nitrobenzene-d5 (Surr)	*82*		*55 - 98*	*12/16/13 13:12*	*12/26/13 17:17*	*1*
Phenol-d5 (Surr)	*87*		*54 - 101*	*12/16/13 13:12*	*12/26/13 17:17*	*1*
Terphenyl-d14 (Surr)	*80*		*58 - 123*	*12/16/13 13:12*	*12/26/13 17:17*	*1*
2-Fluorobiphenyl (Surr)	*85*		*56 - 97*	*12/16/13 13:12*	*12/26/13 17:17*	*1*

Lab Sample ID: LCS 160-92253/2-A
Matrix: Solid
Analysis Batch: 95077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92253

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	3330	2910		ug/Kg		87	63 - 95
Acenaphthylene	3330	2990		ug/Kg		90	62 - 98
Anthracene	3330	3040		ug/Kg		91	63 - 100
Benzo[a]anthracene	3330	3330		ug/Kg		100	74 - 114
Benzo[b]fluoranthene	3330	3480		ug/Kg		105	68 - 109
Benzo[k]fluoranthene	3330	3100		ug/Kg		93	69 - 111
Benzo[g,h,i]perylene	3330	2980		ug/Kg		90	67 - 121
Benzo[a]pyrene	3330	3310		ug/Kg		99	63 - 103
Chrysene	3330	3030		ug/Kg		91	66 - 100
Dibenz(a,h)anthracene	3330	3120		ug/Kg		93	67 - 114
Fluoranthene	3330	3130		ug/Kg		94	63 - 101
Fluorene	3330	2910		ug/Kg		87	62 - 96
Indeno[1,2,3-cd]pyrene	3330	3110		ug/Kg		93	65 - 120
Naphthalene	3330	2770		ug/Kg		83	60 - 90
Phenanthrene	3330	3060		ug/Kg		92	63 - 99
Pyrene	3330	3330		ug/Kg		100	64 - 102

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*80*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*93*		*46 - 111*
Nitrobenzene-d5 (Surr)	*82*		*55 - 98*
Phenol-d5 (Surr)	*81*		*54 - 101*
Terphenyl-d14 (Surr)	*81*		*58 - 123*

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

Lab Sample ID: LCS 160-92253/2-A
Matrix: Solid
Analysis Batch: 95077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92253

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	86		56 - 97

Lab Sample ID: 680-96723-8 MS
Matrix: Solid
Analysis Batch: 95077

Client Sample ID: DD-B-9_SS
Prep Type: Total/NA
Prep Batch: 92253

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	36	U	3570	3070		ug/Kg	☼	86	57 - 94
Acenaphthylene	36	U	3570	3130		ug/Kg	☼	88	57 - 97
Anthracene	36	U	3570	3260		ug/Kg	☼	91	58 - 99
Benzo[a]anthracene	36	U	3570	3640		ug/Kg	☼	102	68 - 114
Benzo[b]fluoranthene	36	U	3570	3590		ug/Kg	☼	100	63 - 107
Benzo[k]fluoranthene	36	U	3570	3150		ug/Kg	☼	88	65 - 108
Benzo[g,h,i]perylene	36	U	3570	4000		ug/Kg	☼	112	54 - 127
Benzo[a]pyrene	36	U	3570	3520		ug/Kg	☼	99	61 - 102
Chrysene	36	U	3570	3290		ug/Kg	☼	92	61 - 100
Dibenz(a,h)anthracene	36	U	3570	4080		ug/Kg	☼	114	59 - 118
Fluoranthene	36	U	3570	3340		ug/Kg	☼	93	58 - 103
Fluorene	36	U	3570	3210		ug/Kg	☼	90	58 - 97
Indeno[1,2,3-cd]pyrene	36	U	3570	4110		ug/Kg	☼	115	56 - 123
Naphthalene	36	U	3570	2790		ug/Kg	☼	78	52 - 86
Phenanthrene	36	U	3570	3280		ug/Kg	☼	92	60 - 98
Pyrene	36	U	3570	3660		ug/Kg	☼	102	53 - 106

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol (Surr)	76		53 - 97
2,4,6-Tribromophenol (Surr)	98		46 - 111
Nitrobenzene-d5 (Surr)	77		55 - 98
Phenol-d5 (Surr)	78		54 - 101
Terphenyl-d14 (Surr)	88		58 - 123
2-Fluorobiphenyl (Surr)	82		56 - 97

Lab Sample ID: 680-96723-8 MSD
Matrix: Solid
Analysis Batch: 95077

Client Sample ID: DD-B-9_SS
Prep Type: Total/NA
Prep Batch: 92253

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	36	U	3570	3090		ug/Kg	☼	87	57 - 94	1	30
Acenaphthylene	36	U	3570	3140		ug/Kg	☼	88	57 - 97	0	30
Anthracene	36	U	3570	3230		ug/Kg	☼	90	58 - 99	1	30
Benzo[a]anthracene	36	U	3570	3610		ug/Kg	☼	101	68 - 114	1	30
Benzo[b]fluoranthene	36	U	3570	3510		ug/Kg	☼	98	63 - 107	2	30
Benzo[k]fluoranthene	36	U	3570	3160		ug/Kg	☼	89	65 - 108	0	30
Benzo[g,h,i]perylene	36	U	3570	4010		ug/Kg	☼	112	54 - 127	0	30
Benzo[a]pyrene	36	U	3570	3490		ug/Kg	☼	98	61 - 102	1	30
Chrysene	36	U	3570	3270		ug/Kg	☼	92	61 - 100	1	30
Dibenz(a,h)anthracene	36	U	3570	4070		ug/Kg	☼	114	59 - 118	0	30
Fluoranthene	36	U	3570	3320		ug/Kg	☼	93	58 - 103	0	30

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

Lab Sample ID: 680-96723-8 MSD
Matrix: Solid
Analysis Batch: 95077

Client Sample ID: DD-B-9_SS
Prep Type: Total/NA
Prep Batch: 92253

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluorene	36	U	3570	3220		ug/Kg	☼	90	58 - 97	0	30
Indeno[1,2,3-cd]pyrene	36	U	3570	4050		ug/Kg	☼	114	56 - 123	1	30
Naphthalene	36	U	3570	2700		ug/Kg	☼	76	52 - 86	3	30
Phenanthrene	36	U	3570	3270		ug/Kg	☼	92	60 - 98	0	30
Pyrene	36	U	3570	3620		ug/Kg	☼	101	53 - 106	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*74*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*97*		*46 - 111*
Nitrobenzene-d5 (Surr)	*75*		*55 - 98*
Phenol-d5 (Surr)	*76*		*54 - 101*
Terphenyl-d14 (Surr)	*95*		*58 - 123*
2-Fluorobiphenyl (Surr)	*81*		*56 - 97*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	6.13	J	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-2	1.59	J	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-3	1.32	J	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-4	8.4	U	20	8.4	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-5	3.3	U	20	3.3	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-6	3.4	U	20	3.4	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-7	3.1	U	20	3.1	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-8	3.3	U	20	3.3	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-9	3.5	U	20	3.5	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-10	5.2	U	20	5.2	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-11	3.5	U	20	3.5	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-12/13	3.5	U	40	3.5	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-14	2.9	U	20	2.9	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-15	3.5	U	20	3.5	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-16	0.70	U	20	0.70	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-17	0.49	U	20	0.49	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-18/30	0.42	U	40	0.42	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-19	0.61	U	20	0.61	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-20/28	0.614	J q	40	0.32	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-21/33	0.379	J q	40	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-22	0.34	U	20	0.34	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-23	0.29	U	20	0.29	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-24	0.36	U	20	0.36	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-25	0.30	U	20	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-26/29	0.30	U	40	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-27	0.37	U	20	0.37	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-31	0.744	J	20	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-32	0.29	U	20	0.29	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-34	0.30	U	20	0.30	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-35	0.35	U	20	0.35	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-36	0.31	U	20	0.31	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-37	0.38	U	20	0.38	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-38	0.33	U	20	0.33	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-39	0.31	U	20	0.31	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-40/71	0.24	U	40	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-41	0.31	U	20	0.31	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-42	0.26	U	20	0.26	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-43	0.27	U	20	0.27	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-44/47/65	1.38	J	60	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-45	0.26	U	20	0.26	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-46	0.28	U	20	0.28	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-48	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-49/69	0.306	J	40	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-50/53	0.22	U	40	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-51	0.22	U	20	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-52	0.930	J q	20	0.25	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-54	0.20	U	20	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-55	0.25	U	20	0.25	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-56	0.27	U	20	0.27	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-57	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-58	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-59/62/75	0.17	U	60	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-60	0.26	U	20	0.26	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-61/70/74/76	0.967	J	80	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-63	0.23	U	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-64	0.244	J	20	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-66	0.27	U	20	0.27	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-67	0.23	U	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-68	0.22	U	20	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-72	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-73	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-77	0.31	U	2.0	0.31	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-78	0.28	U	20	0.28	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-79	0.24	U	20	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-80	0.23	U	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-81	0.29	U	2.0	0.29	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-82	0.26	U	20	0.26	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-83	0.28	U	20	0.28	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-84	0.23	U	20	0.23	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-85/116/117	0.17	U	60	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-86/87/97/108/119/125	0.269	J q	120	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-88/91	0.20	U	40	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-89	0.22	U	20	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-90/101/113	0.577	J	60	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-92	0.21	U	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-93/100	0.20	U	40	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-107/124	0.16	U	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-94	0.21	U	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-95	0.421	J	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-96	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-98/102	0.18	U	40	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-99	0.21	U	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-103	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-104	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-105	0.19	U	2.0	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-106	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-110/115	0.588	J q	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-109	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-111	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-112	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-114	0.18	U	2.0	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-115	0.588	J q	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-118	0.427	J q	2.0	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-120	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-121	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-122	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-123	0.17	U	2.0	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-126	0.22	U	2.0	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-127	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-128/166	0.16	U	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-129/138/163	0.454	J q	60	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-130	0.22	U	20	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-131	0.21	U	20	0.21	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-132	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-133	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-134/143	0.20	U	40	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-135/151	0.17	U	40	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-136	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-137	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-139/140	0.16	U	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-141	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-142	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-144	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-145	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-146	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-147/149	0.285	J q	40	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-148	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-150	0.11	U	20	0.11	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-152	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-153/168	0.283	J q	40	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-154	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-155	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-156/157	0.22	U	4.0	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-158	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-159	0.19	U	20	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-160	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-161	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-162	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-164	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-165	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-167	0.18	U	2.0	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-169	0.20	U	2.0	0.20	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-170	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-171/173	0.16	U	40	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-172	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-174	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-175	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-176	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-177	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-178	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-179	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-180/193	0.240	J	40	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-181	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-182	0.16	U	20	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-183	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-184	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-185	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-186	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-187	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-188	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-189	0.19	U	2.0	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-190	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-191	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-192	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-194	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-195	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-196	0.18	U	20	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-197	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-198/199	0.19	U	40	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-200	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-201	0.12	U	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-202	0.16	U	20	0.16	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-203	0.17	U	20	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-204	0.13	U	20	0.13	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-205	0.11	U	20	0.11	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-206	0.15	U	20	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-207	0.11	U	20	0.11	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-208	0.14	U	20	0.14	pg/g		12/19/13 17:37	01/20/14 16:14	1
PCB-209	0.959	J	20	0.12	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Monochlorobiphenyls	9.04	J	200	0.22	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Dichlorobiphenyls	8.4	U	200	8.4	pg/g		12/19/13 17:37	01/20/14 16:14	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32277/1-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32277

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Trichlorobiphenyls	1.74	J q	200	0.37	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Tetrachlorobiphenyls	3.83	J q	200	0.24	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Pentachlorobiphenyls	2.28	J q	200	0.18	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Hexachlorobiphenyls	1.02	J q	200	0.17	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Heptachlorobiphenyls	0.240	J	200	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Octachlorobiphenyls	0.19	U	200	0.19	pg/g		12/19/13 17:37	01/20/14 16:14	1
Total Nonachlorobiphenyls	0.15	U	200	0.15	pg/g		12/19/13 17:37	01/20/14 16:14	1
Polychlorinated biphenyls, Total	19.1	J q	200	1.0	pg/g		12/19/13 17:37	01/20/14 16:14	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*44*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-15L	*56*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-123L	*72*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-114L	*71*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-3L	*45*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-118L	*73*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-126L	*80*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-202L	*67*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-169L	*97*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-206L	*87*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-37L	*59*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-19L	*56*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-188L	*50*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-54L	*44*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-156L/157L	*85*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-167L	*82*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-209L	*85*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-189L	*76*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-105L	*73*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-208L	*84*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-1L	*40*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-104L	*52*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-81L	*72*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-77L	*71*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-205L	*86*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-155L	*51*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*50*		*5 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-111L	*71*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*
PCB-178L	*77*		*10 - 145*	*12/19/13 17:37*	*01/20/14 16:14*	*1*

Lab Sample ID: LCS 320-32277/2-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	218		pg/g		109	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32277/2-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32277

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-3			200	211		pg/g		106	60 - 135		
PCB-4			200	208		pg/g		104	60 - 135		
PCB-15			200	223		pg/g		112	60 - 135		
PCB-19			200	203		pg/g		101	60 - 135		
PCB-37			200	208		pg/g		104	60 - 135		
PCB-54			200	199		pg/g		100	60 - 135		
PCB-77			200	218		pg/g		109	60 - 135		
PCB-81			200	211		pg/g		105	60 - 135		
PCB-104			200	202		pg/g		101	60 - 135		
PCB-105			200	212		pg/g		106	60 - 135		
PCB-114			200	214		pg/g		107	60 - 135		
PCB-118			200	221		pg/g		110	60 - 135		
PCB-123			200	207		pg/g		104	60 - 135		
PCB-126			200	212		pg/g		106	60 - 135		
PCB-155			200	217		pg/g		108	60 - 135		
PCB-156/157			400	424		pg/g		106	60 - 135		
PCB-167			200	208	G	pg/g		104	60 - 135		
PCB-169			200	209	G	pg/g		104	60 - 135		
PCB-188			200	215		pg/g		107	60 - 135		
PCB-189			200	218		pg/g		109	60 - 135		
PCB-202			200	219		pg/g		109	60 - 135		
PCB-205			200	201		pg/g		100	60 - 135		
PCB-206			200	208		pg/g		104	60 - 135		
PCB-208			200	207		pg/g		103	60 - 135		
PCB-209			200	205		pg/g		103	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*39*		*15 - 145*
PCB-15L	*51*		*15 - 145*
PCB-123L	*82*		*40 - 145*
PCB-114L	*83*		*40 - 145*
PCB-3L	*38*		*15 - 145*
PCB-118L	*84*		*40 - 145*
PCB-126L	*90*		*40 - 145*
PCB-202L	*67*		*40 - 145*
PCB-169L	*86*		*40 - 145*
PCB-206L	*85*		*40 - 145*
PCB-37L	*54*		*15 - 145*
PCB-19L	*45*		*15 - 145*
PCB-188L	*55*		*40 - 145*
PCB-54L	*56*		*15 - 145*
PCB-156L/157L	*77*		*40 - 145*
PCB-167L	*76*		*40 - 145*
PCB-209L	*83*		*40 - 145*
PCB-189L	*74*		*40 - 145*
PCB-105L	*85*		*40 - 145*
PCB-208L	*79*		*40 - 145*
PCB-1L	*30*		*15 - 145*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32277/2-A
Matrix: Solid
Analysis Batch: 34242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32277

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-104L	51		40 - 145
PCB-81L	70		40 - 145
PCB-77L	70		40 - 145
PCB-205L	82		40 - 145
PCB-155L	50		40 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
PCB-28L	63		5 - 145
PCB-111L	79		10 - 145
PCB-178L	76		10 - 145

Lab Sample ID: MB 320-32864/1-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32864

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	9.81	J	20	0.56	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-2	2.45	J q	20	0.51	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-3	1.77	J	20	0.48	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-4	24	U G	24	24	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-5	13	U	20	13	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-6	13	U	20	13	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-7	13	U	20	13	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-8	13	U	20	13	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-9	14	U	20	14	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-10	9.8	U	20	9.8	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-11	14	U	20	14	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-12/13	14	U	40	14	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-14	12	U	20	12	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-15	11	U	20	11	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-16	1.6	U	20	1.6	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-17	1.1	U	20	1.1	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-18/30	0.96	U	40	0.96	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-19	1.4	U	20	1.4	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-20/28	1.10	J	40	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-21/33	0.690	J q	40	0.34	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-22	0.39	U	20	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-23	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-24	0.83	U	20	0.83	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-25	0.34	U	20	0.34	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-26/29	0.35	U	40	0.35	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-27	0.84	U	20	0.84	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-31	0.660	J q	20	0.34	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-32	0.65	U	20	0.65	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-34	0.35	U	20	0.35	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-35	0.40	U	20	0.40	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-36	0.35	U	20	0.35	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-37	0.42	U	20	0.42	pg/g		12/30/13 13:50	02/07/14 17:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32864/1-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32864

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-38	0.38	U	20	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-39	0.35	U	20	0.35	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-40/71	0.28	U	40	0.28	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-41	0.37	U	20	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-42	0.31	U	20	0.31	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-43	0.32	U	20	0.32	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-44/47/65	1.51	J q	60	0.27	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-45	0.32	U	20	0.32	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-46	0.34	U	20	0.34	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-48	0.29	U	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-49/69	0.23	U	40	0.23	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-50/53	0.26	U	40	0.26	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-51	0.26	U	20	0.26	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-52	1.02	J q	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-54	0.63	U	20	0.63	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-55	0.44	U	20	0.44	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-56	0.48	U	20	0.48	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-57	0.43	U	20	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-58	0.43	U	20	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-59/62/75	0.21	U	60	0.21	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-60	0.46	U	20	0.46	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-61/70/74/76	0.682	J q	80	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-63	0.40	U	20	0.40	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-64	0.20	U	20	0.20	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-66	0.48	U	20	0.48	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-67	0.40	U	20	0.40	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-68	0.39	U	20	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-72	0.42	U	20	0.42	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-73	0.22	U	20	0.22	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-77	0.51	U	2.0	0.51	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-78	0.49	U	20	0.49	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-79	0.42	U	20	0.42	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-80	0.41	U	20	0.41	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-81	0.49	U	2.0	0.49	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-82	0.56	U	20	0.56	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-83	0.60	U	20	0.60	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-84	0.50	U	20	0.50	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-85/116/117	0.37	U	60	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-86/87/97/108/119/125	0.539	J	120	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-88/91	0.42	U	40	0.42	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-89	0.48	U	20	0.48	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-90/101/113	0.957	J	60	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-92	0.45	U	20	0.45	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-93/100	0.43	U	40	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-107/124	0.35	U	40	0.35	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-94	0.45	U	20	0.45	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-95	0.660	J	20	0.42	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-96	0.18	U	20	0.18	pg/g		12/30/13 13:50	02/07/14 17:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32864/1-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32864

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-98/102	0.40	U	40	0.40	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-99	0.466	J q	20	0.45	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-103	0.39	U	20	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-104	0.20	U	20	0.20	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-105	0.39	U	2.0	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-106	0.38	U	20	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-110/115	0.892	J	40	0.34	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-109	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-111	0.31	U	20	0.31	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-112	0.30	U	20	0.30	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-114	0.37	U	2.0	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-115	0.892	J	40	0.34	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-118	0.507	J q	2.0	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-120	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-121	0.31	U	20	0.31	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-122	0.39	U	20	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-123	0.36	U	2.0	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-126	0.43	U	2.0	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-127	0.38	U	20	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-128/166	0.36	U	40	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-129/138/163	0.694	J q	60	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-130	0.48	U	20	0.48	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-131	0.46	U	20	0.46	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-132	0.43	U	20	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-133	0.43	U	20	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-134/143	0.43	U	40	0.43	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-135/151	0.38	U	40	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-136	0.28	U	20	0.28	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-137	0.38	U	20	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-139/140	0.36	U	40	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-141	0.41	U	20	0.41	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-142	0.42	U	20	0.42	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-144	0.38	U	20	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-145	0.27	U	20	0.27	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-146	0.40	U	20	0.40	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-147/149	0.562	J	40	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-148	0.37	U	20	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-150	0.25	U	20	0.25	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-152	0.26	U	20	0.26	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-153/168	0.509	J q	40	0.32	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-154	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-155	0.30	U	20	0.30	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-156/157	0.36	U	4.0	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-158	0.29	U	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-159	0.30	U	20	0.30	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-160	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-161	0.29	U	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-162	0.29	U	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32864/1-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32864

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-164	0.32	U	20	0.32	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-165	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-167	0.28	U	2.0	0.28	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-169	0.32	U	2.0	0.32	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-170	0.26	U	20	0.26	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-171/173	0.24	U	40	0.24	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-172	0.25	U	20	0.25	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-174	0.24	U	20	0.24	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-175	0.39	U	20	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-176	0.26	U	20	0.26	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-177	0.24	U	20	0.24	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-178	0.41	U	20	0.41	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-179	0.29	U	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-180/193	0.20	U	40	0.20	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-181	0.20	U	20	0.20	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-182	0.37	U	20	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-183	0.18	U	20	0.18	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-184	0.29	U	20	0.29	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-185	0.22	U	20	0.22	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-186	0.28	U	20	0.28	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-187	0.38	U	20	0.38	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-188	0.31	U	20	0.31	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-189	0.28	U	2.0	0.28	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-190	0.18	U	20	0.18	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-191	0.18	U	20	0.18	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-192	0.18	U	20	0.18	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-194	0.36	U	20	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-195	0.33	U	20	0.33	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-196	0.24	U	20	0.24	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-197	0.16	U	20	0.16	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-198/199	0.25	U	40	0.25	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-200	0.16	U	20	0.16	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-201	0.16	U	20	0.16	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-202	0.21	U	20	0.21	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-203	0.22	U	20	0.22	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-204	0.17	U	20	0.17	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-205	0.23	U	20	0.23	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-206	0.25	U	20	0.25	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-207	0.19	U	20	0.19	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-208	0.24	U	20	0.24	pg/g		12/30/13 13:50	02/07/14 17:06	1
PCB-209	1.73	J	20	0.20	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Monochlorobiphenyls	14.0	J q	200	0.52	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Dichlorobiphenyls	24	U	200	24	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Trichlorobiphenyls	2.45	J q	200	0.61	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Tetrachlorobiphenyls	3.21	J q	200	0.37	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Pentachlorobiphenyls	4.02	J q	200	0.39	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Hexachlorobiphenyls	1.76	J q	200	0.35	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Heptachlorobiphenyls	0.41	U	200	0.41	pg/g		12/30/13 13:50	02/07/14 17:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32864/1-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32864

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Octachlorobiphenyls	0.36	U	200	0.36	pg/g		12/30/13 13:50	02/07/14 17:06	1
Total Nonachlorobiphenyls	0.25	U	200	0.25	pg/g		12/30/13 13:50	02/07/14 17:06	1
Polychlorinated biphenyls, Total	27.2	J q	200	2.7	pg/g		12/30/13 13:50	02/07/14 17:06	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*38*		*5 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-15L	*55*		*5 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-123L	*75*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-114L	*73*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-3L	*43*		*5 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-118L	*74*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-126L	*80*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-202L	*73*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-169L	*90*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-206L	*91*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-37L	*65*		*5 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-19L	*46*		*5 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-188L	*65*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-54L	*46*		*5 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-156L/157L	*83*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-167L	*82*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-209L	*88*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-189L	*83*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-105L	*75*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-208L	*87*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-1L	*35*		*5 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-104L	*50*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-81L	*75*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-77L	*75*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-205L	*90*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-155L	*58*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*58*		*5 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-111L	*71*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*
PCB-178L	*81*		*10 - 145*	*12/30/13 13:50*	*02/07/14 17:06*	*1*

Lab Sample ID: LCS 320-32864/2-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	204		pg/g		102	60 - 135
PCB-3	200	199		pg/g		100	60 - 135
PCB-4	200	212		pg/g		106	60 - 135
PCB-15	200	199		pg/g		99	60 - 135
PCB-19	200	210		pg/g		105	60 - 135
PCB-37	200	199		pg/g		99	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32864/2-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-54			200	204		pg/g		102	60 - 135		
PCB-77			200	199		pg/g		99	60 - 135		
PCB-81			200	209		pg/g		105	60 - 135		
PCB-104			200	206		pg/g		103	60 - 135		
PCB-105			200	207		pg/g		104	60 - 135		
PCB-114			200	202		pg/g		101	60 - 135		
PCB-118			200	210		pg/g		105	60 - 135		
PCB-123			200	201		pg/g		100	60 - 135		
PCB-126			200	206		pg/g		103	60 - 135		
PCB-155			200	209		pg/g		104	60 - 135		
PCB-156/157			400	408		pg/g		102	60 - 135		
PCB-167			200	203		pg/g		101	60 - 135		
PCB-169			200	199		pg/g		100	60 - 135		
PCB-188			200	206		pg/g		103	60 - 135		
PCB-189			200	205		pg/g		103	60 - 135		
PCB-202			200	208		pg/g		104	60 - 135		
PCB-205			200	198		pg/g		99	60 - 135		
PCB-206			200	201		pg/g		100	60 - 135		
PCB-208			200	199		pg/g		100	60 - 135		
PCB-209			200	202		pg/g		101	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*32*		*15 - 145*
PCB-15L	*39*		*15 - 145*
PCB-123L	*45*		*40 - 145*
PCB-114L	*45*		*40 - 145*
PCB-3L	*36*		*15 - 145*
PCB-118L	*45*		*40 - 145*
PCB-126L	*52*		*40 - 145*
PCB-202L	*46*		*40 - 145*
PCB-169L	*61*		*40 - 145*
PCB-206L	*63*		*40 - 145*
PCB-37L	*40*		*15 - 145*
PCB-19L	*34*		*15 - 145*
PCB-188L	*39*	*	*40 - 145*
PCB-54L	*32*		*15 - 145*
PCB-156L/157L	*55*		*40 - 145*
PCB-167L	*52*		*40 - 145*
PCB-209L	*63*		*40 - 145*
PCB-189L	*56*		*40 - 145*
PCB-105L	*47*		*40 - 145*
PCB-208L	*58*		*40 - 145*
PCB-1L	*31*		*15 - 145*
PCB-104L	*33*	*	*40 - 145*
PCB-81L	*42*		*40 - 145*
PCB-77L	*45*		*40 - 145*
PCB-205L	*62*		*40 - 145*
PCB-155L	*35*	*	*40 - 145*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32864/2-A
Matrix: Solid
Analysis Batch: 35734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32864

Surrogate	LCS %Recovery	LCS Qualifier	Limits
PCB-28L	50		5 - 145
PCB-111L	57		10 - 145
PCB-178L	66		10 - 145

Lab Sample ID: 680-96723-1 MS
Matrix: Solid
Analysis Batch: 35735

Client Sample ID: P-B-7_SS
Prep Type: Total/NA
Prep Batch: 32864

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	69	J B	418	519		pg/g	☼	108	60 - 135
PCB-3	74	J B	418	534		pg/g	☼	110	60 - 135
PCB-4	180	U	418	608	F1	pg/g	☼	145	60 - 135
PCB-15	330	J	418	727		pg/g	☼	95	60 - 135
PCB-19	19	U	418	525		pg/g	☼	126	60 - 135
PCB-37	520		418	576	F1	pg/g	☼	14	60 - 135
PCB-54	7.2	U	418	463		pg/g	☼	111	60 - 135
PCB-77	600	G	418	1020	G	pg/g	☼	100	60 - 135
PCB-81	93	U G	418	463	G	pg/g	☼	111	60 - 135
PCB-104	4.8	U	418	503		pg/g	☼	120	60 - 135
PCB-105	24000	G	418	20500	4 G	pg/g	☼	-929	60 - 135
PCB-114	710	G	418	1020	G	pg/g	☼	76	60 - 135
PCB-118	50000	E B G	418	37800	4 G	pg/g	☼	-3004	60 - 135
PCB-123	490	q G	418	876	G	pg/g	☼	92	60 - 135
PCB-126	550	U G	418	948	G	pg/g	☼	NC	60 - 135
PCB-155	81	U	418	453		pg/g	☼	108	60 - 135
PCB-156/157	9100		837	7900	4	pg/g	☼	-140	60 - 135
PCB-167	2400	G	418	2490	4 G	pg/g	☼	26	60 - 135
PCB-169	53	U G	418	452	G	pg/g	☼	108	60 - 135
PCB-188	11	J	418	502		pg/g	☼	117	60 - 135
PCB-189	250		418	710		pg/g	☼	109	60 - 135
PCB-202	88	J	418	650		pg/g	☼	134	60 - 135
PCB-205	45	J q	418	554		pg/g	☼	122	60 - 135
PCB-206	620		418	1530	F1	pg/g	☼	217	60 - 135
PCB-208	580		418	1410	F1	pg/g	☼	197	60 - 135
PCB-209	58000	E B	418	83900	E 4	pg/g	☼	6117	60 - 135

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
PCB-4L	28		5 - 145
PCB-15L	35		5 - 145
PCB-123L	49		10 - 145
PCB-114L	45		10 - 145
PCB-202L	44		10 - 145
PCB-3L	34		5 - 145
PCB-118L	53		10 - 145
PCB-126L	54		10 - 145
PCB-206L	51		10 - 145
PCB-169L	63		10 - 145
PCB-37L	35		5 - 145

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 680-96723-1 MS
Matrix: Solid
Analysis Batch: 35735

Client Sample ID: P-B-7_SS
Prep Type: Total/NA
Prep Batch: 32864

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
PCB-19L	26		5 - 145
PCB-188L	37		10 - 145
PCB-54L	26		5 - 145
PCB-156L/157L	57		10 - 145
PCB-167L	53	q	10 - 145
PCB-209L	59		10 - 145
PCB-189L	49		10 - 145
PCB-105L	50		10 - 145
PCB-208L	48		10 - 145
PCB-1L	30		5 - 145
PCB-104L	28		10 - 145
PCB-81L	50		10 - 145
PCB-77L	55		10 - 145
PCB-205L	51		10 - 145
PCB-155L	36		10 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
PCB-28L	62		5 - 145
PCB-111L	67		10 - 145
PCB-178L	84		10 - 145

Lab Sample ID: 680-96723-1 MSD
Matrix: Solid
Analysis Batch: 35735

Client Sample ID: P-B-7_SS
Prep Type: Total/NA
Prep Batch: 32864

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1	69	J B	425	504		pg/g	☼	103	60 - 135	3	50
PCB-3	74	J B	425	498		pg/g	☼	100	60 - 135	7	50
PCB-4	180	U	425	534		pg/g	☼	126	60 - 135	13	50
PCB-15	330	J	425	873		pg/g	☼	127	60 - 135	18	50
PCB-19	19	U	425	506		pg/g	☼	119	60 - 135	4	50
PCB-37	520		425	1180	F1 F2	pg/g	☼	156	60 - 135	69	50
PCB-54	7.2	U	425	381	J	pg/g	☼	90	60 - 135	19	50
PCB-77	600	G	425	991	G	pg/g	☼	92	60 - 135	3	50
PCB-81	93	U G	425	411	G	pg/g	☼	97	60 - 135	12	50
PCB-104	4.8	U	425	484		pg/g	☼	114	60 - 135	4	50
PCB-105	24000	G	425	17200	4 G	pg/g	☼	-1696	60 - 135	18	50
PCB-114	710	G	425	861	F1 G	pg/g	☼	36	60 - 135	17	50
PCB-118	50000	E B G	425	33600	4 G	pg/g	☼	-3930	60 - 135	12	50
PCB-123	490	q G	425	741	F1 G	pg/g	☼	59	60 - 135	17	50
PCB-126	550	U G	425	811	G	pg/g	☼	NC	60 - 135	16	50
PCB-155	81	U	425	384	J	pg/g	☼	90	60 - 135	16	50
PCB-156/157	9100		850	7050	4	pg/g	☼	-238	60 - 135	11	50
PCB-167	2400	G	425	2100	4	pg/g	☼	-66	60 - 135	17	50
PCB-169	53	U G	425	424	G	pg/g	☼	100	60 - 135	6	50
PCB-188	11	J	425	453		pg/g	☼	104	60 - 135	10	50
PCB-189	250		425	636		pg/g	☼	90	60 - 135	11	50
PCB-202	88	J	425	516		pg/g	☼	101	60 - 135	23	50

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 680-96723-1 MSD
Matrix: Solid
Analysis Batch: 35735

Client Sample ID: P-B-7_SS
Prep Type: Total/NA
Prep Batch: 32864

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-205	45	J q	425	452		pg/g	☼	96	60 - 135	20	50
PCB-206	620		425	1090		pg/g	☼	111	60 - 135	33	50
PCB-208	580		425	997		pg/g	☼	98	60 - 135	34	50
PCB-209	58000	E B	425	55300	E 4	pg/g	☼	-692	60 - 135	41	50

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
PCB-4L	*33*		*5 - 145*
PCB-15L	*45*		*5 - 145*
PCB-123L	*79*		*10 - 145*
PCB-114L	*82*		*10 - 145*
PCB-202L	*77*		*10 - 145*
PCB-3L	*39*		*5 - 145*
PCB-118L	*80*		*10 - 145*
PCB-126L	*91*		*10 - 145*
PCB-206L	*87*		*10 - 145*
PCB-169L	*96*		*10 - 145*
PCB-37L	*64*		*5 - 145*
PCB-19L	*36*		*5 - 145*
PCB-188L	*64*		*10 - 145*
PCB-54L	*46*		*5 - 145*
PCB-156L/157L	*86*		*10 - 145*
PCB-167L	*91*		*10 - 145*
PCB-209L	*93*		*10 - 145*
PCB-189L	*78*		*10 - 145*
PCB-105L	*84*		*10 - 145*
PCB-208L	*84*		*10 - 145*
PCB-1L	*31*		*5 - 145*
PCB-104L	*42*		*10 - 145*
PCB-81L	*90*		*10 - 145*
PCB-77L	*84*		*10 - 145*
PCB-205L	*89*		*10 - 145*
PCB-155L	*62*		*10 - 145*

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
PCB-28L	*60*		*5 - 145*
PCB-111L	*78*		*10 - 145*
PCB-178L	*83*		*10 - 145*

Lab Sample ID: MB 320-33524/1-A
Matrix: Water
Analysis Batch: 34287

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33524

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	1.3	U	200	1.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-2	1.4	U	200	1.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-3	1.4	U	200	1.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-4	26	U	200	26	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-5	26	U	200	26	pg/L		01/09/14 13:29	01/21/14 18:20	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33524/1-A
Matrix: Water
Analysis Batch: 34287

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33524

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-6	26	U	200	26	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-7	24	U	200	24	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-8	25	U	200	25	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-9	27	U	200	27	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-10	16	U	200	16	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-11	27	U	200	27	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-12/13	27	U	400	27	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-14	22	U	200	22	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-15	26	U	200	26	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-16	7.7	U	200	7.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-17	5.4	U	200	5.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-18/30	4.6	U	400	4.6	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-19	7.0	U	200	7.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-20/28	9.95	J	400	3.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-21/33	6.55	J	400	2.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-22	3.2	U	200	3.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-23	2.7	U	200	2.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-24	4.0	U	200	4.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-25	2.8	U	200	2.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-26/29	2.8	U	400	2.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-27	4.0	U	200	4.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-31	11.9	J	200	2.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-32	3.1	U	200	3.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-34	2.8	U	200	2.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-35	3.2	U	200	3.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-36	2.8	U	200	2.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-37	3.4	U	200	3.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-38	3.1	U	200	3.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-39	2.9	U	200	2.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-40/71	4.97	J q	400	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-41	2.6	U	200	2.6	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-42	4.78	J	200	2.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-43	2.3	U	200	2.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-44/47/65	7.27	J q	600	1.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-45	2.2	U	200	2.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-46	2.4	U	200	2.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-48	2.0	U	200	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-49/69	6.56	J	400	1.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-50/53	1.9	U	400	1.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-51	1.9	U	200	1.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-52	17.0	J	200	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-54	2.0	U	200	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-55	2.1	U	200	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-56	2.2	U	200	2.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-57	2.0	U	200	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-58	2.0	U	200	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-59/62/75	1.5	U	600	1.5	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-60	2.1	U	200	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33524/1-A
Matrix: Water
Analysis Batch: 34287

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33524

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-61/70/74/76	11.9	J	800	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-63	1.9	U	200	1.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-64	3.75	J q	200	1.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-66	3.33	J q	200	2.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-67	1.9	U	200	1.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-68	1.8	U	200	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-72	2.0	U	200	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-73	1.6	U	200	1.6	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-77	2.4	U	20	2.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-78	2.3	U	200	2.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-79	2.0	U	200	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-80	1.9	U	200	1.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-81	2.3	U	20	2.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-82	3.1	U	200	3.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-83	3.3	U	200	3.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-84	2.8	U	200	2.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-85/116/117	2.1	U	600	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-86/87/97/108/119/125	2.1	U	1200	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-88/91	2.3	U	400	2.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-89	2.6	U	200	2.6	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-90/101/113	6.69	J q	600	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-92	2.5	U	200	2.5	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-93/100	2.4	U	400	2.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-107/124	1.9	U	400	1.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-94	2.5	U	200	2.5	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-95	7.14	J	200	2.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-96	1.3	U	200	1.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-98/102	2.2	U	400	2.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-99	2.54	J q	200	2.5	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-103	2.2	U	200	2.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-104	1.5	U	200	1.5	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-105	2.1	U	20	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-106	2.1	U	200	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-110/115	5.87	J q	400	1.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-109	1.8	U	200	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-111	1.7	U	200	1.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-112	1.7	U	200	1.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-114	2.1	U	20	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-118	3.84	J q	20	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-120	1.8	U	200	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-121	1.7	U	200	1.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-122	2.2	U	200	2.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-123	2.0	U	20	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-126	2.3	U	20	2.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-127	2.1	U	200	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-128/166	1.7	U	400	1.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-129/138/163	4.78	J	600	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-130	2.3	U	200	2.3	pg/L		01/09/14 13:29	01/21/14 18:20	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33524/1-A
Matrix: Water
Analysis Batch: 34287

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33524

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-131	2.2	U	200	2.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-132	2.1	U	200	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-133	2.1	U	200	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-134/143	2.1	U	400	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-135/151	1.8	U	400	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-136	1.3	U	200	1.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-137	1.8	U	200	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-139/140	1.7	U	400	1.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-141	1.9	U	200	1.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-142	2.0	U	200	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-144	1.8	U	200	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-145	1.3	U	200	1.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-146	1.9	U	200	1.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-147/149	3.03	J q	400	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-148	1.8	U	200	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-150	1.2	U	200	1.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-152	1.2	U	200	1.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-153/168	1.5	U	400	1.5	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-154	1.6	U	200	1.6	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-155	1.9	U	200	1.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-156/157	2.0	U	40	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-158	1.4	U	200	1.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-159	1.8	U	200	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-160	1.6	U	200	1.6	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-161	1.4	U	200	1.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-162	1.7	U	200	1.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-164	1.5	U	200	1.5	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-165	1.6	U	200	1.6	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-167	1.6	U	20	1.6	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-169	1.8	U	20	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-170	2.4	U	200	2.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-171/173	2.2	U	400	2.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-172	2.3	U	200	2.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-174	2.2	U	200	2.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-175	2.4	U	200	2.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-176	1.6	U	200	1.6	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-177	2.2	U	200	2.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-178	2.5	U	200	2.5	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-179	1.7	U	200	1.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-180/193	1.8	U	400	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-181	1.8	U	200	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-182	2.2	U	200	2.2	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-183	1.7	U	200	1.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-184	1.8	U	200	1.8	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-185	2.0	U	200	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-186	1.7	U	200	1.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-187	2.3	U	200	2.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-188	2.2	U	200	2.2	pg/L		01/09/14 13:29	01/21/14 18:20	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33524/1-A
Matrix: Water
Analysis Batch: 34287

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33524

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-189	2.3	U	20	2.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-190	1.7	U	200	1.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-191	1.6	U	200	1.6	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-192	1.7	U	200	1.7	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-194	2.6	U	200	2.6	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-195	2.4	U	200	2.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-196	2.0	U	200	2.0	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-197	1.4	U	200	1.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-198/199	2.1	U	400	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-200	1.4	U	200	1.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-201	1.4	U	200	1.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-202	2.1	U	200	2.1	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-203	1.9	U	200	1.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-204	1.4	U	200	1.4	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-205	1.5	U	200	1.5	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-206	2.3	U	200	2.3	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-207	1.9	U	200	1.9	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-208	2.5	U	200	2.5	pg/L		01/09/14 13:29	01/21/14 18:20	1
PCB-209	61.6	J	200	2.6	pg/L		01/09/14 13:29	01/21/14 18:20	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*61*		*5 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-15L	*83*		*5 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-123L	*78*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-114L	*80*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-3L	*62*		*5 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-118L	*80*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-126L	*90*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-202L	*51*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-169L	*96*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-206L	*86*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-37L	*77*		*5 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-19L	*73*		*5 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-188L	*41*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-54L	*61*		*5 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-156L/157L	*89*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-167L	*83*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-209L	*81*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-189L	*78*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-105L	*84*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-208L	*71*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-1L	*54*		*5 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-104L	*52*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-81L	*98*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-77L	*99*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-205L	*88*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*
PCB-155L	*42*		*10 - 145*	*01/09/14 13:29*	*01/21/14 18:20*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33524/1-A
Matrix: Water
Analysis Batch: 34287

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33524

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	76		5 - 145	01/09/14 13:29	01/21/14 18:20	1
PCB-111L	89		10 - 145	01/09/14 13:29	01/21/14 18:20	1
PCB-178L	88		10 - 145	01/09/14 13:29	01/21/14 18:20	1

Lab Sample ID: LCS 320-33524/2-A
Matrix: Water
Analysis Batch: 34287

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	2000	2280		pg/L		114	60 - 135
PCB-3	2000	2180		pg/L		109	60 - 135
PCB-4	2000	2210		pg/L		111	60 - 135
PCB-15	2000	2170		pg/L		108	60 - 135
PCB-19	2000	2060		pg/L		103	60 - 135
PCB-37	2000	2330		pg/L		116	60 - 135
PCB-54	2000	2100		pg/L		105	60 - 135
PCB-77	2000	2250		pg/L		113	60 - 135
PCB-81	2000	2230		pg/L		111	60 - 135
PCB-104	2000	2200		pg/L		110	60 - 135
PCB-105	2000	2280		pg/L		114	60 - 135
PCB-114	2000	2210		pg/L		111	60 - 135
PCB-118	2000	2310		pg/L		115	60 - 135
PCB-123	2000	2180		pg/L		109	60 - 135
PCB-126	2000	2270		pg/L		113	60 - 135
PCB-155	2000	2280		pg/L		114	60 - 135
PCB-156/157	4000	4480		pg/L		112	60 - 135
PCB-167	2000	2190		pg/L		110	60 - 135
PCB-169	2000	2300		pg/L		115	60 - 135
PCB-188	2000	2260		pg/L		113	60 - 135
PCB-189	2000	2320		pg/L		116	60 - 135
PCB-202	2000	2340		pg/L		117	60 - 135
PCB-205	2000	2160		pg/L		108	60 - 135
PCB-206	2000	2220		pg/L		111	60 - 135
PCB-208	2000	2220		pg/L		111	60 - 135
PCB-209	2000	2240		pg/L		112	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-4L	36		15 - 145
PCB-15L	55		15 - 145
PCB-123L	68		40 - 145
PCB-114L	67		40 - 145
PCB-3L	37		15 - 145
PCB-118L	67		40 - 145
PCB-126L	73		40 - 145
PCB-202L	75		40 - 145
PCB-169L	79		40 - 145
PCB-206L	85		40 - 145
PCB-37L	52		15 - 145

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-33524/2-A
Matrix: Water
Analysis Batch: 34287

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33524

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-19L	51		15 - 145
PCB-188L	64		40 - 145
PCB-54L	41		15 - 145
PCB-156L/157L	77		40 - 145
PCB-167L	75		40 - 145
PCB-209L	83		40 - 145
PCB-189L	76		40 - 145
PCB-105L	70		40 - 145
PCB-208L	83		40 - 145
PCB-1L	24		15 - 145
PCB-104L	43		40 - 145
PCB-81L	66		40 - 145
PCB-77L	67		40 - 145
PCB-205L	84		40 - 145
PCB-155L	50		40 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
PCB-28L	50		5 - 145
PCB-111L	70		10 - 145
PCB-178L	78		10 - 145

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-32264/1-A
Matrix: Solid
Analysis Batch: 33441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32264

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.012	U	1.0	0.012	pg/g		12/19/13 15:47	01/07/14 16:43	1
2,3,7,8-TCDF	0.0252	J q	1.0	0.0079	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,7,8-PeCDD	0.015	U	5.0	0.015	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,7,8-PeCDF	0.013	U	5.0	0.013	pg/g		12/19/13 15:47	01/07/14 16:43	1
2,3,4,7,8-PeCDF	0.0643	J	5.0	0.014	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,7,8-HxCDD	0.0263	J q	5.0	0.013	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,6,7,8-HxCDD	0.0463	J	5.0	0.0089	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,7,8,9-HxCDD	0.0400	J q	5.0	0.0092	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,7,8-HxCDF	0.391	J	5.0	0.013	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,6,7,8-HxCDF	0.0789	J q	5.0	0.0098	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,7,8,9-HxCDF	0.0384	J q	5.0	0.013	pg/g		12/19/13 15:47	01/07/14 16:43	1
2,3,4,6,7,8-HxCDF	0.0417	J	5.0	0.011	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,6,7,8-HpCDD	0.116	J	5.0	0.016	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,6,7,8-HpCDF	1.04	J	5.0	0.019	pg/g		12/19/13 15:47	01/07/14 16:43	1
1,2,3,4,7,8,9-HpCDF	0.0799	J	5.0	0.022	pg/g		12/19/13 15:47	01/07/14 16:43	1
OCDD	1.03	J	10	0.024	pg/g		12/19/13 15:47	01/07/14 16:43	1
OCDF	1.23	J	10	0.025	pg/g		12/19/13 15:47	01/07/14 16:43	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	94		40 - 135	12/19/13 15:47	01/07/14 16:43	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32264/1-A
Matrix: Solid
Analysis Batch: 33441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32264

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	96		40 - 135	12/19/13 15:47	01/07/14 16:43	1
13C-1,2,3,7,8-PeCDD	95		40 - 135	12/19/13 15:47	01/07/14 16:43	1
13C-1,2,3,4,6,7,8-HpCDF	95		40 - 135	12/19/13 15:47	01/07/14 16:43	1
13C-1,2,3,7,8-PeCDF	94		40 - 135	12/19/13 15:47	01/07/14 16:43	1
13C-2,3,7,8-TCDF	90		40 - 135	12/19/13 15:47	01/07/14 16:43	1
13C-1,2,3,4,6,7,8-HpCDD	104		40 - 135	12/19/13 15:47	01/07/14 16:43	1
13C-OCDD	99		40 - 135	12/19/13 15:47	01/07/14 16:43	1
13C-1,2,3,4,7,8-HxCDF	87		40 - 135	12/19/13 15:47	01/07/14 16:43	1

Lab Sample ID: LCS 320-32264/2-A
Matrix: Solid
Analysis Batch: 33441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	19.0		pg/g		95	77 - 130
2,3,7,8-TCDF	20.0	19.4		pg/g		97	79 - 137
1,2,3,7,8-PeCDD	100	99.3		pg/g		99	79 - 134
1,2,3,7,8-PeCDF	100	96.9		pg/g		97	81 - 134
2,3,4,7,8-PeCDF	100	97.8		pg/g		98	76 - 132
1,2,3,4,7,8-HxCDD	100	94.5		pg/g		94	65 - 144
1,2,3,6,7,8-HxCDD	100	98.0		pg/g		98	73 - 147
1,2,3,7,8,9-HxCDD	100	103		pg/g		103	80 - 143
1,2,3,4,7,8-HxCDF	100	103		pg/g		103	72 - 140
1,2,3,6,7,8-HxCDF	100	100		pg/g		100	63 - 152
1,2,3,7,8,9-HxCDF	100	102		pg/g		102	72 - 152
2,3,4,6,7,8-HxCDF	100	100		pg/g		100	72 - 151
1,2,3,4,6,7,8-HpCDD	100	100		pg/g		100	86 - 134
1,2,3,4,6,7,8-HpCDF	100	100		pg/g		100	81 - 137
1,2,3,4,7,8,9-HpCDF	100	97.9		pg/g		98	79 - 139
OCDD	200	212		pg/g		106	80 - 137
OCDF	200	200		pg/g		100	75 - 141

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-1,2,3,6,7,8-HxCDD	95		40 - 135
13C-2,3,7,8-TCDD	98		40 - 135
13C-1,2,3,7,8-PeCDD	95		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	94		40 - 135
13C-1,2,3,7,8-PeCDF	95		40 - 135
13C-2,3,7,8-TCDF	91		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	98		40 - 135
13C-OCDD	95		40 - 135
13C-1,2,3,4,7,8-HxCDF	89		40 - 135

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-89919/1-A
Matrix: Solid
Analysis Batch: 97021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14	U	19	14	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Barium	0.24	U	4.9	0.24	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Beryllium	0.16	U	0.49	0.16	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Cadmium	0.097	U	0.49	0.097	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Calcium	13	U	240	13	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Chromium	0.30	U	0.97	0.30	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Cobalt	0.91	U	4.9	0.91	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Copper	0.71	U	2.4	0.71	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Iron	2.9	U	9.7	2.9	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Magnesium	8.1	U	97	8.1	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Manganese	0.15	U	0.97	0.15	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Nickel	0.22	U	3.9	0.22	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Potassium	330	U	490	330	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Lead	0.17	U	0.97	0.17	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Antimony	0.62	U	0.97	0.62	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Silver	0.23	U	0.97	0.23	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Selenium	0.28	U	1.5	0.28	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Sodium	46	U	97	46	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Titanium	0.61	U	1.9	0.61	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Vanadium	1.2	U	4.9	1.2	mg/Kg		12/05/13 10:06	01/08/14 14:26	1
Zinc	1.9	U	4.9	1.9	mg/Kg		12/05/13 10:06	01/08/14 14:26	1

Lab Sample ID: LCS 160-89919/2-A
Matrix: Solid
Analysis Batch: 97021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9780	7760		mg/Kg		79	44 - 155
Barium	325	295		mg/Kg		91	74 - 125
Beryllium	92.1	87.3		mg/Kg		95	74 - 126
Cadmium	110	102		mg/Kg		93	73 - 139
Calcium	6700	6180		mg/Kg		92	74 - 125
Chromium	93.4	87.9		mg/Kg		94	69 - 130
Cobalt	133	129		mg/Kg		97	74 - 125
Copper	74.7	74.9		mg/Kg		100	73 - 126
Iron	13100	12500		mg/Kg		95	32 - 167
Magnesium	2980	2680		mg/Kg		90	66 - 134
Manganese	443	429		mg/Kg		97	77 - 124
Nickel	109	106		mg/Kg		97	72 - 126
Potassium	2770	2380		mg/Kg		86	61 - 138
Lead	152	143		mg/Kg		94	73 - 126
Antimony	121	59.0		mg/Kg		49	21 - 251
Silver	51.9	48.5		mg/Kg		93	66 - 133
Selenium	207	185		mg/Kg		89	69 - 131
Sodium	724	655		mg/Kg		90	56 - 144
Titanium	193	218		mg/Kg		113	29 - 171
Vanadium	110	102		mg/Kg		92	67 - 132
Zinc	299	278		mg/Kg		93	71 - 128

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

Lab Sample ID: 680-96723-1 MS
Matrix: Solid
Analysis Batch: 97021

Client Sample ID: P-B-7_SS
Prep Type: Total/NA
Prep Batch: 89919

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000		956	13600	4	mg/Kg	☼	330	75 - 125
Antimony	3.1	U	47.8	12.7	F1	mg/Kg	☼	27	75 - 125
Barium	220		95.6	307		mg/Kg	☼	95	75 - 125
Beryllium	0.83	U	95.6	86.3		mg/Kg	☼	90	75 - 125
Cadmium	0.49	U	95.6	88.3		mg/Kg	☼	92	75 - 125
Calcium	29000		956	31900	4	mg/Kg	☼	309	75 - 125
Chromium	14		95.6	103		mg/Kg	☼	92	75 - 125
Cobalt	11	J	95.6	100		mg/Kg	☼	94	75 - 125
Copper	21		95.6	107		mg/Kg	☼	91	75 - 125
Iron	18000		956	16100	4	mg/Kg	☼	-162	75 - 125
Lead	18		95.6	108		mg/Kg	☼	95	75 - 125
Magnesium	11000		956	11800	4	mg/Kg	☼	66	75 - 125
Manganese	890		95.6	948	4	mg/Kg	☼	58	75 - 125
Nickel	18	J	95.6	108		mg/Kg	☼	95	75 - 125
Potassium	2200	J	956	3150		mg/Kg	☼	104	75 - 125
Selenium	1.4	U	47.8	35.0	F1	mg/Kg	☼	73	75 - 125
Silver	1.1	U	19.1	17.6		mg/Kg	☼	92	75 - 125
Sodium	2000		956	3420	F1	mg/Kg	☼	144	75 - 125
Titanium	2000		95.6	1800	4	mg/Kg	☼	-197	75 - 125
Vanadium	52		95.6	134		mg/Kg	☼	86	75 - 125
Zinc	45		95.6	132		mg/Kg	☼	91	75 - 125

Lab Sample ID: 680-96723-1 MSD
Matrix: Solid
Analysis Batch: 97021

Client Sample ID: P-B-7_SS
Prep Type: Total/NA
Prep Batch: 89919

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	10000		1070	15300	4	mg/Kg	☼	455	75 - 125	12	30
Antimony	3.1	U	53.6	14.8	F1	mg/Kg	☼	28	75 - 125	15	30
Barium	220		107	356	F1	mg/Kg	☼	130	75 - 125	15	30
Beryllium	0.83	U	107	103		mg/Kg	☼	96	75 - 125	17	30
Cadmium	0.49	U	107	102		mg/Kg	☼	95	75 - 125	14	30
Calcium	29000		1070	30000	4	mg/Kg	☼	90	75 - 125	6	30
Chromium	14		107	120		mg/Kg	☼	98	75 - 125	16	30
Cobalt	11	J	107	116		mg/Kg	☼	98	75 - 125	15	30
Copper	21		107	123		mg/Kg	☼	96	75 - 125	14	30
Iron	18000		1070	19100	4	mg/Kg	☼	137	75 - 125	17	30
Lead	18		107	127		mg/Kg	☼	102	75 - 125	16	30
Magnesium	11000		1070	13100	4	mg/Kg	☼	174	75 - 125	10	30
Manganese	890		107	1140	4	mg/Kg	☼	231	75 - 125	18	30
Nickel	18	J	107	125		mg/Kg	☼	100	75 - 125	14	30
Potassium	2200	J	1070	3700	F1	mg/Kg	☼	144	75 - 125	16	30
Selenium	1.4	U	53.6	37.9	F1	mg/Kg	☼	71	75 - 125	8	30
Silver	1.1	U	21.5	20.7		mg/Kg	☼	96	75 - 125	16	30
Sodium	2000		1070	3900	F1	mg/Kg	☼	173	75 - 125	13	30
Titanium	2000		107	2210	4	mg/Kg	☼	210	75 - 125	21	30
Vanadium	52		107	158		mg/Kg	☼	99	75 - 125	16	30
Zinc	45		107	150		mg/Kg	☼	99	75 - 125	13	30

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

Lab Sample ID: MB 160-90103/1-A
Matrix: Solid
Analysis Batch: 97021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14	U	19	14	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Barium	0.24	U	4.9	0.24	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Beryllium	0.16	U	0.49	0.16	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Cadmium	0.097	U	0.49	0.097	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Calcium	13	U	240	13	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Chromium	0.30	U	0.97	0.30	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Cobalt	0.91	U	4.9	0.91	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Copper	0.71	U	2.4	0.71	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Iron	2.9	U	9.7	2.9	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Magnesium	8.1	U	97	8.1	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Manganese	0.15	U	0.97	0.15	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Nickel	0.22	U	3.9	0.22	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Lead	0.17	U	0.97	0.17	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Antimony	0.62	U	0.97	0.62	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Silver	0.23	U	0.97	0.23	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Selenium	0.28	U	1.5	0.28	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Titanium	0.61	U	1.9	0.61	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Vanadium	1.2	U	4.9	1.2	mg/Kg		12/06/13 07:38	01/08/14 15:19	1
Zinc	1.9	U	4.9	1.9	mg/Kg		12/06/13 07:38	01/08/14 15:19	1

Lab Sample ID: MB 160-90103/1-A
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	330	U	490	330	mg/Kg		12/06/13 07:38	01/09/14 22:05	1
Sodium	46	U	97	46	mg/Kg		12/06/13 07:38	01/09/14 22:05	1

Lab Sample ID: LCS 160-90103/2-A
Matrix: Solid
Analysis Batch: 97021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9780	6430		mg/Kg		66	44 - 155
Barium	325	242		mg/Kg		74	74 - 125
Cadmium	110	91.2		mg/Kg		83	73 - 139
Calcium	6700	5680		mg/Kg		85	74 - 125
Chromium	93.4	69.9		mg/Kg		75	69 - 130
Cobalt	133	117		mg/Kg		88	74 - 125
Copper	74.7	62.9		mg/Kg		84	73 - 126
Iron	13100	9260		mg/Kg		71	32 - 167
Magnesium	2980	2070		mg/Kg		70	66 - 134
Nickel	109	94.2		mg/Kg		86	72 - 126
Lead	152	129		mg/Kg		85	73 - 126
Antimony	121	50.3		mg/Kg		42	21 - 251
Silver	51.9	39.3		mg/Kg		76	66 - 133
Selenium	207	168		mg/Kg		81	69 - 131
Titanium	193	156		mg/Kg		81	29 - 171

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

Lab Sample ID: LCS 160-90103/2-A
Matrix: Solid
Analysis Batch: 97021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	110	78.0		mg/Kg		71	67 - 132
Zinc	299	253		mg/Kg		85	71 - 128

Lab Sample ID: LCS 160-90103/2-A
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	92.1	84.3		mg/Kg		92	74 - 126
Manganese	443	386		mg/Kg		87	77 - 124
Potassium	2770	2410		mg/Kg		87	61 - 138
Sodium	724	675		mg/Kg		93	56 - 144

Lab Sample ID: 680-96723-13 MS
Matrix: Solid
Analysis Batch: 97021

Client Sample ID: P-B-4_SUB
Prep Type: Total/NA
Prep Batch: 90103

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	11000		1020	14800	4	mg/Kg	☼	365	75 - 125
Barium	240		102	294	F1	mg/Kg	☼	53	75 - 125
Beryllium	0.77	U *	102	90.1		mg/Kg	☼	88	75 - 125
Cadmium	0.46	U	102	92.6		mg/Kg	☼	90	75 - 125
Calcium	26000		1020	22800	4	mg/Kg	☼	-284	75 - 125
Chromium	11		102	103		mg/Kg	☼	89	75 - 125
Cobalt	7.6	J	102	102		mg/Kg	☼	92	75 - 125
Copper	27		102	126		mg/Kg	☼	97	75 - 125
Iron	16000		1020	16600	4	mg/Kg	☼	42	75 - 125
Magnesium	9800		1020	10100	4	mg/Kg	☼	31	75 - 125
Manganese	600	*	102	599	4	mg/Kg	☼	2	75 - 125
Nickel	15	J	102	111		mg/Kg	☼	93	75 - 125
Lead	17		102	110		mg/Kg	☼	91	75 - 125
Antimony	2.9	U	51.2	18.6	F1	mg/Kg	☼	36	75 - 125
Silver	1.1	U	20.5	18.7		mg/Kg	☼	91	75 - 125
Selenium	1.3	U	51.2	42.0		mg/Kg	☼	82	75 - 125
Titanium	1100		102	966	4	mg/Kg	☼	-116	75 - 125
Vanadium	42		102	127		mg/Kg	☼	82	75 - 125
Zinc	49		102	135		mg/Kg	☼	85	75 - 125

Lab Sample ID: 680-96723-13 MS
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: P-B-4_SUB
Prep Type: Total/NA
Prep Batch: 90103

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	3100	U	1020	4540	J	mg/Kg	☼	NC	75 - 125
Sodium	790	J	1020	2900	F1	mg/Kg	☼	206	75 - 125

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

Lab Sample ID: 680-96723-13 MSD
Matrix: Solid
Analysis Batch: 97021

Client Sample ID: P-B-4_SUB
Prep Type: Total/NA
Prep Batch: 90103

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	11000		969	15200	4	mg/Kg	☼	424	75 - 125	2	30
Barium	240		96.9	311	F1	mg/Kg	☼	73	75 - 125	6	30
Beryllium	0.77	U *	96.9	88.4		mg/Kg	☼	91	75 - 125	2	30
Cadmium	0.46	U	96.9	90.2		mg/Kg	☼	93	75 - 125	3	30
Calcium	26000		969	23600	4	mg/Kg	☼	-213	75 - 125	4	30
Chromium	11		96.9	99.9		mg/Kg	☼	91	75 - 125	3	30
Cobalt	7.6	J	96.9	100		mg/Kg	☼	96	75 - 125	1	30
Copper	27		96.9	131		mg/Kg	☼	108	75 - 125	4	30
Iron	16000		969	17100	4	mg/Kg	☼	95	75 - 125	3	30
Magnesium	9800		969	11100	4	mg/Kg	☼	132	75 - 125	9	30
Manganese	600	*	96.9	686	4	mg/Kg	☼	92	75 - 125	14	30
Nickel	15	J	96.9	109		mg/Kg	☼	97	75 - 125	2	30
Lead	17		96.9	111		mg/Kg	☼	97	75 - 125	1	30
Antimony	2.9	U	48.4	16.7	F1	mg/Kg	☼	35	75 - 125	11	30
Silver	1.1	U	19.4	17.9		mg/Kg	☼	93	75 - 125	4	30
Selenium	1.3	U	48.4	40.5		mg/Kg	☼	84	75 - 125	3	30
Titanium	1100		96.9	1050	4	mg/Kg	☼	-34	75 - 125	9	30
Vanadium	42		96.9	128		mg/Kg	☼	88	75 - 125	1	30
Zinc	49		96.9	135		mg/Kg	☼	90	75 - 125	0	30

Lab Sample ID: 680-96723-13 MSD
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: P-B-4_SUB
Prep Type: Total/NA
Prep Batch: 90103

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	3100	U	969	4320	J	mg/Kg	☼	NC	75 - 125	5	30
Sodium	790	J	969	2690	F1	mg/Kg	☼	196	75 - 125	7	30

Lab Sample ID: MB 160-96025/1-A
Matrix: Water
Analysis Batch: 97021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96025

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	80	U	200	80	ug/L		01/03/14 17:29	01/08/14 13:36	1
Barium	4.0	U	50	4.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Beryllium	0.61	U	5.0	0.61	ug/L		01/03/14 17:29	01/08/14 13:36	1
Cadmium	0.91	U	5.0	0.91	ug/L		01/03/14 17:29	01/08/14 13:36	1
Calcium	110	U	1000	110	ug/L		01/03/14 17:29	01/08/14 13:36	1
Chromium	3.1	U	10	3.1	ug/L		01/03/14 17:29	01/08/14 13:36	1
Cobalt	4.9	U	50	4.9	ug/L		01/03/14 17:29	01/08/14 13:36	1
Copper	4.6	U	25	4.6	ug/L		01/03/14 17:29	01/08/14 13:36	1
Iron	28	U	100	28	ug/L		01/03/14 17:29	01/08/14 13:36	1
Magnesium	130	U	1000	130	ug/L		01/03/14 17:29	01/08/14 13:36	1
Manganese	3.3	U	15	3.3	ug/L		01/03/14 17:29	01/08/14 13:36	1
Nickel	13	U	40	13	ug/L		01/03/14 17:29	01/08/14 13:36	1
Potassium	1700	U	5000	1700	ug/L		01/03/14 17:29	01/08/14 13:36	1
Lead	1.5	U	10	1.5	ug/L		01/03/14 17:29	01/08/14 13:36	1
Antimony	4.0	U	10	4.0	ug/L		01/03/14 17:29	01/08/14 13:36	1

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

Lab Sample ID: MB 160-96025/1-A
Matrix: Water
Analysis Batch: 97021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96025

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	6.0	U	10	6.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Selenium	2.7	U	15	2.7	ug/L		01/03/14 17:29	01/08/14 13:36	1
Sodium	320	U	1000	320	ug/L		01/03/14 17:29	01/08/14 13:36	1
Titanium	2.4	U	20	2.4	ug/L		01/03/14 17:29	01/08/14 13:36	1
Vanadium	4.1	U	50	4.1	ug/L		01/03/14 17:29	01/08/14 13:36	1
Zinc	13.0	J	20	5.2	ug/L		01/03/14 17:29	01/08/14 13:36	1

Lab Sample ID: LCS 160-96025/2-A
Matrix: Water
Analysis Batch: 97021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96025

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	10500		ug/L		105	80 - 120
Barium	1000	1040		ug/L		104	80 - 120
Beryllium	1000	1050		ug/L		105	80 - 120
Cadmium	1000	1040		ug/L		104	80 - 120
Calcium	10000	10900		ug/L		109	80 - 120
Chromium	1000	1010		ug/L		101	80 - 120
Cobalt	1000	1080		ug/L		108	80 - 120
Copper	1000	1080		ug/L		108	80 - 120
Iron	10000	10600		ug/L		106	80 - 120
Magnesium	10000	9960		ug/L		100	80 - 120
Manganese	1000	1080		ug/L		108	80 - 120
Nickel	1000	1100		ug/L		110	80 - 120
Potassium	10000	11700		ug/L		117	80 - 120
Lead	1000	1090		ug/L		109	80 - 120
Antimony	500	513		ug/L		103	80 - 120
Silver	200	201		ug/L		100	80 - 120
Selenium	500	516		ug/L		103	80 - 120
Sodium	10000	11700		ug/L		117	80 - 120
Titanium	1000	1020		ug/L		102	80 - 120
Vanadium	1000	1040		ug/L		104	80 - 120
Zinc	1000	1070		ug/L		107	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-89914/1-A
Matrix: Solid
Analysis Batch: 94702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.25	U	0.97	0.25	mg/Kg		12/05/13 09:53	12/25/13 04:58	2
Niobium	0.37	U	2.4	0.37	mg/Kg		12/05/13 09:53	12/25/13 04:58	2
Thallium	0.15	U	0.49	0.15	mg/Kg		12/05/13 09:53	12/25/13 04:58	2
Uranium	0.019	U	0.097	0.019	mg/Kg		12/05/13 09:53	12/25/13 04:58	2

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

Lab Sample ID: LCS 160-89914/13-A
Matrix: Solid
Analysis Batch: 94702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	47.5	52.0	E	mg/Kg		110	80 - 120
Uranium	94.9	98.7		mg/Kg		104	80 - 120

Lab Sample ID: LCS 160-89914/2-A
Matrix: Solid
Analysis Batch: 94702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	109	118		mg/Kg		108	70 - 131
Thallium	171	192	E	mg/Kg		112	68 - 131

Lab Sample ID: 680-96723-1 MS
Matrix: Solid
Analysis Batch: 94702

Client Sample ID: P-B-7_SS
Prep Type: Total/NA
Prep Batch: 89914

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.0	J	95.6	95.3		mg/Kg	☼	96	75 - 125
Niobium	4.0	J	47.8	13.6	F	mg/Kg	☼	20	75 - 125
Thallium	0.75	U	19.1	19.8		mg/Kg	☼	103	75 - 125
Uranium	1.1		95.6	98.7		mg/Kg	☼	102	75 - 125

Lab Sample ID: 680-96723-1 MSD
Matrix: Solid
Analysis Batch: 94702

Client Sample ID: P-B-7_SS
Prep Type: Total/NA
Prep Batch: 89914

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.0	J	107	106		mg/Kg	☼	95	75 - 125	11	30
Niobium	4.0	J	53.6	17.4	F	mg/Kg	☼	25	75 - 125	24	30
Thallium	0.75	U	21.5	22.9		mg/Kg	☼	107	75 - 125	15	30
Uranium	1.1		107	116		mg/Kg	☼	107	75 - 125	16	30

Lab Sample ID: MB 160-90110/1-A
Matrix: Solid
Analysis Batch: 95495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.25	U	0.97	0.25	mg/Kg		12/06/13 07:42	12/31/13 01:08	2
Niobium	0.37	U	2.4	0.37	mg/Kg		12/06/13 07:42	12/31/13 01:08	2
Thallium	0.15	U	0.49	0.15	mg/Kg		12/06/13 07:42	12/31/13 01:08	2
Uranium	0.019	U	0.097	0.019	mg/Kg		12/06/13 07:42	12/31/13 01:08	2

Lab Sample ID: LCS 160-90110/11-A
Matrix: Solid
Analysis Batch: 95495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	47.8	50.6	E	mg/Kg		106	80 - 120
Uranium	95.6	97.2		mg/Kg		102	80 - 120

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

Lab Sample ID: LCS 160-90110/2-A
Matrix: Solid
Analysis Batch: 95495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	109	117		mg/Kg		107	70 - 131
Thallium	171	194	E	mg/Kg		113	68 - 131

Lab Sample ID: 680-96723-13 MS
Matrix: Solid
Analysis Batch: 95495

Client Sample ID: P-B-4_SUB
Prep Type: Total/NA
Prep Batch: 90110

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.2	J	102	110		mg/Kg	☼	103	75 - 125
Niobium	1.7	U	51.2	21.8	F	mg/Kg	☼	43	75 - 125
Thallium	0.69	U	20.5	20.5		mg/Kg	☼	100	75 - 125
Uranium	0.85		102	98.3		mg/Kg	☼	95	75 - 125

Lab Sample ID: 680-96723-13 MSD
Matrix: Solid
Analysis Batch: 95495

Client Sample ID: P-B-4_SUB
Prep Type: Total/NA
Prep Batch: 90110

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.2	J	96.9	104		mg/Kg	☼	103	75 - 125	6	30
Niobium	1.7	U	48.4	19.1	F	mg/Kg	☼	40	75 - 125	13	30
Thallium	0.69	U	19.4	21.2		mg/Kg	☼	109	75 - 125	3	30
Uranium	0.85		96.9	103		mg/Kg	☼	105	75 - 125	4	30

Lab Sample ID: MB 160-96024/1-A
Matrix: Water
Analysis Batch: 96993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		01/03/14 17:29	01/09/14 00:26	1
Niobium	2.2	U	25	2.2	ug/L		01/03/14 17:29	01/09/14 00:26	1
Thallium	0.55	U	2.0	0.55	ug/L		01/03/14 17:29	01/09/14 00:26	1
Uranium	0.23	U	1.0	0.23	ug/L		01/03/14 17:29	01/09/14 00:26	1

Lab Sample ID: LCS 160-96024/2-A
Matrix: Water
Analysis Batch: 96993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	950		ug/L		95	80 - 120
Niobium	500	518	E	ug/L		104	80 - 120
Thallium	200	206		ug/L		103	80 - 120
Uranium	1000	985		ug/L		98	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-90143/1-A
Matrix: Water
Analysis Batch: 90386

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90143

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		12/06/13 11:35	12/06/13 15:35	1

Lab Sample ID: LCS 160-90143/2-A
Matrix: Water
Analysis Batch: 90386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.90		ug/L		98	80 - 120

Lab Sample ID: 680-96723-14 MS
Matrix: Water
Analysis Batch: 90386

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 90143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.060	U	5.00	4.95		ug/L		99	80 - 120

Lab Sample ID: 680-96723-14 MSD
Matrix: Water
Analysis Batch: 90386

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 90143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.060	U	5.00	4.85		ug/L		97	80 - 120	2	20

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 160-90382/1-A
Matrix: Solid
Analysis Batch: 91139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	U	0.030	0.010	mg/Kg		12/09/13 07:33	12/11/13 12:02	1

Lab Sample ID: LCS 160-90382/2-A
Matrix: Solid
Analysis Batch: 91139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	16.3	14.4		mg/Kg		89	51 - 148

Lab Sample ID: 680-96723-1 MS
Matrix: Solid
Analysis Batch: 91139

Client Sample ID: P-B-7_SS
Prep Type: Total/NA
Prep Batch: 90382

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.016	J	0.836	0.798		mg/Kg	☼	94	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) (Continued)

Lab Sample ID: 680-96723-1 MSD — **Client Sample ID: P-B-7_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91139 — **Prep Batch: 90382**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.016	J	0.822	0.789		mg/Kg	☼	94	80 - 120	1	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-91112/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0040	U	0.020	0.0040	mg/L			12/04/13 09:38	1
Chloride	0.020	U	0.20	0.020	mg/L			12/04/13 09:38	1
Sulfate	0.050	U	0.50	0.050	mg/L			12/04/13 09:38	1

Lab Sample ID: LCS 160-91112/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.400	0.414		mg/L		103	90 - 110
Chloride	2.00	1.99		mg/L		99	90 - 110
Sulfate	8.00	7.67		mg/L		96	90 - 110

Lab Sample ID: MB 160-95433/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 97447

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.040	U	0.20	0.040	mg/Kg			01/07/14 20:16	1
Chloride	0.20	U	2.0	0.20	mg/Kg			01/07/14 20:16	1
Sulfate	0.50	U	5.0	0.50	mg/Kg			01/07/14 20:16	1

Lab Sample ID: LCS 160-95433/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 97447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	3.97	3.97		mg/Kg		100	90 - 110
Chloride	19.9	19.5		mg/Kg		98	90 - 110
Sulfate	79.5	76.9		mg/Kg		97	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 680-96723-1 MS — **Client Sample ID: P-B-7_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 97447

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N - DL	19	H	84.0	103	H	mg/Kg	☼	100	90 - 110
Sulfate - DL	1000	H	840	1900	H	mg/Kg	☼	102	90 - 110

Lab Sample ID: 680-96723-1 MSD
Matrix: Solid
Analysis Batch: 97447

Client Sample ID: P-B-7_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N - DL	19	H	86.7	107	H	mg/Kg	☼	101	90 - 110	4	20
Sulfate - DL	1000	H	867	1960	H	mg/Kg	☼	106	90 - 110	3	20

Method: 300.0 - Anions, Ion Chromatography - DL2

Lab Sample ID: 680-96723-1 MS
Matrix: Solid
Analysis Batch: 97447

Client Sample ID: P-B-7_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL2	1100	H	1050	2190	H	mg/Kg	☼	101	90 - 110

Lab Sample ID: 680-96723-1 MSD
Matrix: Solid
Analysis Batch: 97447

Client Sample ID: P-B-7_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride - DL2	1100	H	1080	2260	H	mg/Kg	☼	105	90 - 110	3	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-90393/1-A
Matrix: Solid
Analysis Batch: 90524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90393

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	2.471	U	10.0	4.17	pCi/g		12/09/13 08:58	12/09/13 20:41	1
Gross Beta	-0.05760	U	10.0	2.15	pCi/g		12/09/13 08:58	12/09/13 20:41	1

Lab Sample ID: LCS 160-90393/2-A
Matrix: Solid
Analysis Batch: 90524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90393

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	27.1	26.72		6.43	4.57	pCi/g	99	44 - 140
Gross Beta	26.8	23.89		3.81	2.70	pCi/g	89	38 - 130

Lab Sample ID: MB 160-95516/1-A
Matrix: Water
Analysis Batch: 95840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95516

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.05583	U	3.00	1.44	pCi/L		12/31/13 12:16	01/02/14 18:28	1
Gross Beta	-0.06862	U	4.00	0.833	pCi/L		12/31/13 12:16	01/02/14 18:28	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Lab Sample ID: LCS 160-95516/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95840 — **Prep Batch: 95516**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	53.8	48.83		7.27	1.91	pCi/L	91	75 - 125

Lab Sample ID: LCSB 160-95516/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95840 — **Prep Batch: 95516**

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	98.2	94.35		9.96	0.993	pCi/L	96	75 - 125

Lab Sample ID: 680-96723-14 MS — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95840 — **Prep Batch: 95516**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	0.331	U	53.8	41.40		6.20	1.44	pCi/L	77	35 - 150

Lab Sample ID: 680-96723-14 MSBT — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95840 — **Prep Batch: 95516**

Analyte	Sample Result	Sample Qual	Spike Added	MSBT Result	MSBT Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	1.16		98.2	96.68		10.2	0.965	pCi/L	97	89 - 143

Lab Sample ID: 680-96723-14 DU — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95840 — **Prep Batch: 95516**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Gross Alpha	0.331	U	0.8787	U	1.25	2.10	pCi/L	0.25	1
Gross Beta	1.16		1.688		0.696	0.924	pCi/L	0.40	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-91490/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95979 — **Prep Batch: 91490**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	-0.06018	U		0.328	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Bismuth-212	0.1353	U		0.815	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Bismuth-214	0.02653	U		0.192	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Bismuth-210M	0.01799	U		0.0683	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Cesium-134	0.006369	U		0.127	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Cesium-137	0.01516	U		0.0660	pCi/g		12/12/13 15:18	01/03/14 15:43	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-91490/1-A
Matrix: Solid
Analysis Batch: 95979

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91490

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt-57	0.004503	U		0.0349	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Cobalt-60	0.01461	U		0.0748	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Lead-212	-0.01445	U		0.130	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Lead-214	0.1168	U		0.137	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Potassium-40	-0.3478	U		1.39	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Protactinium-231	-0.02620	U		1.52	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Protactinium-234	-0.01549	U		0.178	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Radium-224	0.05548	U		1.11	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Thallium-208	0.03595	U		0.0663	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Thorium-227	0.01504	U		0.402	pCi/g		12/12/13 15:18	01/03/14 15:43	1
Thorium-234	-0.4687	U		1.59	pCi/g		12/12/13 15:18	01/03/14 15:43	1

Lab Sample ID: LCS 160-91490/2-A
Matrix: Solid
Analysis Batch: 95982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91490

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	31.4	30.63		3.27	0.335	pCi/g	98	87 - 120
Cobalt-60	23.6	22.74		2.33	0.173	pCi/g	96	87 - 115
Americium-241	97.5	95.38		10.0	1.25	pCi/g	98	87 - 116

Lab Sample ID: MB 160-94337/1-A
Matrix: Water
Analysis Batch: 97890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94337

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	-0.4580	U		45.5	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Bismuth-212	-19.18	U		148	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Bismuth-214	-1.271	U		29.7	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Bismuth-210M	0.4886	U		15.2	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cesium-134	-0.1895	U		12.8	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cesium-137	0.0000	U		14.0	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cobalt-57	0.7235	U		7.47	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cobalt-60	-3.036	U		15.9	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Lead-212	7.985	U		19.3	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Lead-214	6.238	U		25.2	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Potassium-40	-31.49	U		219	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Protactinium-231	-54.05	U		285	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Protactinium-234	5.830	U		41.8	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Radium-224	2.040	U		181	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thallium-208	-3.845	U		15.0	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thorium-227	-17.75	U		69.9	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thorium-231	15.22	U		63.7	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thorium-234	83.40	U		202	pCi/L		12/23/13 17:56	01/13/14 02:14	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-94337/2-A
Matrix: Water
Analysis Batch: 97574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94337

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Cesium-137			50500	49390		4960		224	pCi/L	98	90 - 111		
Cobalt-60			59800	58270		5760		117	pCi/L	97	89 - 110		
Americium-241			137000	132800		15300		554	pCi/L	97	90 - 111		

Lab Sample ID: 680-96723-14 DU
Matrix: Water
Analysis Batch: 97576

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 94337

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Actinium 228	8.47	U		6.277	U	18.8		38.3	pCi/L			0.06	1
Bismuth-212	33.5	U		10.96	U	68.6		126	pCi/L			0.16	1
Bismuth-214	-7.62	U		17.51	U	19.7		28.8	pCi/L			0.52	1
Bismuth-210M	4.15	U		2.356	U	7.60		13.1	pCi/L			0.12	1
Cesium-134	3.35	U		-0.1976	U	5.65		10.4	pCi/L			0.35	1
Cesium-137	-0.251	U		0.1266	U	5.02		9.59	pCi/L			0.03	1
Cobalt-57	2.08	U		0.7335	U	3.42		7.28	pCi/L			0.20	1
Cobalt-60	-1.89	U		-2.829	U	8.00		14.3	pCi/L			0.06	1
Lead-212	-6.05	U		5.148	U	9.26		16.5	pCi/L			0.34	1
Lead-214	6.52	U		-7.993	U	26.9		27.7	pCi/L			0.34	1
Potassium-40	-27.5	U		-83.55	U	363		218	pCi/L			0.11	1
Protactinium-231	-22.2	U		12.87	U	42.2		273	pCi/L			0.18	1
Protactinium-234	11.6	U		4.460	U	15.4		26.8	pCi/L			0.22	1
Radium-224	-44.1	U		69.06	U	102		170	pCi/L			0.52	1
Thallium-208	-1.21	U		-4.970	U	47.2		13.4	pCi/L			0.07	1
Thorium-227	12.1	U		-20.68	U	40.5		68.2	pCi/L			0.50	1
Thorium-231	-4.59	U		23.63	U	35.8		57.7	pCi/L			0.47	1
Thorium-234	25.5	U		88.72	U	130		196	pCi/L			0.32	1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-90392/1-A
Matrix: Solid
Analysis Batch: 95626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90392

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	-0.03393	U	1.00	0.102	pCi/g		12/09/13 08:58	01/01/14 15:58	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*40 - 110*	*12/09/13 08:58*	*01/01/14 15:58*	*1*

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-90392/2-A
Matrix: Solid
Analysis Batch: 95626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90392

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.2	10.31		1.06		0.100	pCi/g	92	65 - 140		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*109*		*40 - 110*

Lab Sample ID: 680-96723-6 DU
Matrix: Solid
Analysis Batch: 95626

Client Sample ID: DD-B-4_SS
Prep Type: Total/NA
Prep Batch: 90392

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-226	5.23			5.383		0.616		0.0965	pCi/g			0.13	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*96.8*		*40 - 110*

Method: 903.0 - Total Alpha-Emitting Radium Isotopes by GFPC

Lab Sample ID: MB 160-89951/1-A
Matrix: Water
Analysis Batch: 95040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89951

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	-0.04968	U	1.00	0.108	pCi/L		12/05/13 13:16	12/27/13 09:45	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*12/05/13 13:16*	*12/27/13 09:45*	*1*

Lab Sample ID: LCS 160-89951/2-A
Matrix: Water
Analysis Batch: 95040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89951

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.2	10.56		1.07		0.100	pCi/L	94	68 - 137		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*102*		*40 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-89952/1-A
Matrix: Water
Analysis Batch: 94685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89952

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.07333	U	1.00	0.315	pCi/L		12/05/13 13:32	12/24/13 11:47	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*12/05/13 13:32*	*12/24/13 11:47*	*1*
Y Carrier	*88.6*		*40 - 110*	*12/05/13 13:32*	*12/24/13 11:47*	*1*

Lab Sample ID: LCS 160-89952/2-A
Matrix: Water
Analysis Batch: 94685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89952

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-228	4.04	4.167		0.583	0.334	pCi/L	103	56 - 140

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*102*		*40 - 110*
Y Carrier	*80.0*		*40 - 110*

Lab Sample ID: MB 160-90394/1-A
Matrix: Solid
Analysis Batch: 95465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90394

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.08244	U	1.00	0.398	pCi/g		12/09/13 09:05	12/30/13 10:59	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*40 - 110*	*12/09/13 09:05*	*12/30/13 10:59*	*1*
Y Carrier	*83.7*		*40 - 110*	*12/09/13 09:05*	*12/30/13 10:59*	*1*

Lab Sample ID: LCS 160-90394/2-A
Matrix: Solid
Analysis Batch: 95465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90394

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-228	4.04	4.259		0.586	0.364	pCi/g	106	61 - 139

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*109*		*40 - 110*
Y Carrier	*86.4*		*40 - 110*

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 680-96723-6 DU
Matrix: Solid
Analysis Batch: 95465

Client Sample ID: DD-B-4_SS
Prep Type: Total/NA
Prep Batch: 90394

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Radium-228	1.33		1.392		0.356	0.419	pCi/g	0.09	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*96.8*		*40 - 110*
Y Carrier	*86.4*		*40 - 110*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-100377/1-A
Matrix: Solid
Analysis Batch: 101400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100377

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.01396	U	1.00	0.0885	pCi/g		01/22/14 08:12	01/24/14 19:12	1
Thorium-230	0.1199		1.00	0.0685	pCi/g		01/22/14 08:12	01/24/14 19:12	1
Thorium-232	0.003132	U	1.00	0.0767	pCi/g		01/22/14 08:12	01/24/14 19:12	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*94.3*		*30 - 110*	*01/22/14 08:12*	*01/24/14 19:12*	*1*

Lab Sample ID: LCS 160-100377/2-A
Matrix: Solid
Analysis Batch: 101410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100377

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Thorium-230	24.5	26.31		2.69	0.158	pCi/g	107	81 - 118

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*82.3*		*30 - 110*

Lab Sample ID: 680-96723-6 DU
Matrix: Solid
Analysis Batch: 101421

Client Sample ID: DD-B-4_SS
Prep Type: Total/NA
Prep Batch: 100377

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Thorium-228	1.90		1.890		0.347	0.113	pCi/g	0.02	1
Thorium-230	5.58		5.796		0.723	0.0795	pCi/g	0.15	1
Thorium-232	1.49		1.940		0.349	0.0556	pCi/g	0.71	1

Tracer	*DU %Yield*	*DU Qualifier*	*Limits*
Thorium-229	*76.1*		*30 - 110*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: MB 160-100386/1-A
Matrix: Water
Analysis Batch: 100960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100386

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	-0.008344	U	1.00	0.116	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-230	0.1637	U	1.00	0.255	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-232	-0.04458	U	1.00	0.190	pCi/L		01/22/14 08:57	01/23/14 22:10	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*83.1*		*30 - 110*	*01/22/14 08:57*	*01/23/14 22:10*	*1*

Lab Sample ID: LCS 160-100386/2-A
Matrix: Water
Analysis Batch: 100961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100386

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			8.64	9.640		1.27		0.217	pCi/L	112	81 - 125		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*76.3*		*30 - 110*

Lab Sample ID: LCSD 160-100386/3-A
Matrix: Water
Analysis Batch: 100977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100386

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Thorium-230			8.64	9.553		1.25		0.220	pCi/L	111	81 - 125	0.03	1

Tracer	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Thorium-229	*77.7*		*30 - 110*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-96698/1-A
Matrix: Solid
Analysis Batch: 99000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96698

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.01335	U	1.00	0.0400	pCi/g		01/06/14 12:37	01/16/14 23:40	1
Uranium-238	0.004683	U	1.00	0.0609	pCi/g		01/06/14 12:37	01/16/14 23:40	1
Uranium-233/234	0.02145	U	1.00	0.0322	pCi/g		01/06/14 12:37	01/16/14 23:40	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*87.5*		*30 - 110*	*01/06/14 12:37*	*01/16/14 23:40*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-96698/2-A
Matrix: Solid
Analysis Batch: 99001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96698

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.304	0.4039		0.149	0.0391	pCi/g	133	
Uranium-238	6.51	6.540		0.758	0.0476	pCi/g	100	82 - 122
Uranium-233/234	6.37	6.188		0.728	0.0314	pCi/g	97	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*91.8*		*30 - 110*

Lab Sample ID: 680-96723-6 DU
Matrix: Solid
Analysis Batch: 99003

Client Sample ID: DD-B-4_SS
Prep Type: Total/NA
Prep Batch: 96698

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Uranium-235/236	0.401		0.3237		0.131	0.0571	pCi/g	0.27	1
Uranium-238	6.79		5.832		0.689	0.0458	pCi/g	0.65	1
Uranium-233/234	6.78		6.065		0.710	0.0459	pCi/g	0.48	1

Tracer	*DU %Yield*	*DU Qualifier*	*Limits*
Uranium-232	*94.8*		*30 - 110*

Lab Sample ID: MB 160-97007/1-A
Matrix: Water
Analysis Batch: 98989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97007

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	-0.01043	U	1.00	0.144	pCi/L		01/09/14 09:41	01/16/14 23:39	1
U-238	0.03623	U	1.00	0.116	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-233/234	0.03212	U	1.00	0.127	pCi/L		01/09/14 09:41	01/16/14 23:39	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*85.8*		*30 - 110*	*01/09/14 09:41*	*01/16/14 23:39*	*1*

Lab Sample ID: LCS 160-97007/2-A
Matrix: Water
Analysis Batch: 98990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97007

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.607	0.6640		0.310	0.105	pCi/L	109	
U-238	13.0	13.00		1.63	0.128	pCi/L	100	83 - 121
Uranium-233/234	12.7	12.68		1.60	0.146	pCi/L	100	84 - 120

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-97007/2-A
Matrix: Water
Analysis Batch: 98990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97007

Tracer	LCS %Yield	LCS Qualifier	Limits
Uranium-232	70.2		30 - 110

Lab Sample ID: LCSD 160-97007/3-A
Matrix: Water
Analysis Batch: 98991

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97007

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Uranium-235/236			0.607	0.4230	U	0.599		0.635	pCi/L	70		0.27	1
U-238			13.0	14.49		3.38		0.965	pCi/L	111	83 - 121	0.30	1
Uranium-233/234			12.7	14.04		3.32		0.883	pCi/L	110	84 - 120	0.28	1

Tracer	LCSD %Yield	LCSD Qualifier	Limits
Uranium-232	10.8	X	30 - 110

GC/MS Semi VOA

Prep Batch: 89913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	3510C	
LCS 160-89913/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 160-89913/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 160-89913/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 92253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6	DD-B-4_SS	Total/NA	Solid	3550C	
680-96723-8	DD-B-9_SS	Total/NA	Solid	3550C	
680-96723-8 MS	DD-B-9_SS	Total/NA	Solid	3550C	
680-96723-8 MSD	DD-B-9_SS	Total/NA	Solid	3550C	
LCS 160-92253/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 160-92253/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 95077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6	DD-B-4_SS	Total/NA	Solid	8270D	92253
680-96723-8	DD-B-9_SS	Total/NA	Solid	8270D	92253
680-96723-8 MS	DD-B-9_SS	Total/NA	Solid	8270D	92253
680-96723-8 MSD	DD-B-9_SS	Total/NA	Solid	8270D	92253
LCS 160-92253/2-A	Lab Control Sample	Total/NA	Solid	8270D	92253
MB 160-92253/1-A	Method Blank	Total/NA	Solid	8270D	92253

Analysis Batch: 98088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	8270D	89913
LCS 160-89913/2-A	Lab Control Sample	Total/NA	Water	8270D	89913
LCSD 160-89913/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	89913
MB 160-89913/1-A	Method Blank	Total/NA	Water	8270D	89913

Specialty Organics

Prep Batch: 32264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6 - DL	DD-B-4_SS	Total/NA	Solid	8290	
680-96723-6	DD-B-4_SS	Total/NA	Solid	8290	
680-96723-6 - RA	DD-B-4_SS	Total/NA	Solid	8290	
680-96723-8	DD-B-9_SS	Total/NA	Solid	8290	
680-96723-8 - RA	DD-B-9_SS	Total/NA	Solid	8290	
LCS 320-32264/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-32264/1-A	Method Blank	Total/NA	Solid	8290	

Prep Batch: 32277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6	DD-B-4_SS	Total/NA	Solid	HRMS-Sox	
680-96723-8	DD-B-9_SS	Total/NA	Solid	HRMS-Sox	
LCS 320-32277/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-32277/1-A	Method Blank	Total/NA	Solid	8290	

Specialty Organics (Continued)

Prep Batch: 32864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-1	P-B-7_SS	Total/NA	Solid	HRMS-Sox	
680-96723-1 MS	P-B-7_SS	Total/NA	Solid	HRMS-Sox	
680-96723-1 MSD	P-B-7_SS	Total/NA	Solid	HRMS-Sox	
680-96723-2 - DL	P-B-7_SS DUP	Total/NA	Solid	HRMS-Sox	
680-96723-4	P-B-5_SS	Total/NA	Solid	HRMS-Sox	
680-96723-10 - DL	DD-B-6_SS	Total/NA	Solid	HRMS-Sox	
680-96723-12 - DL	P-B-4_SS	Total/NA	Solid	HRMS-Sox	
LCS 320-32864/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
MB 320-32864/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	

Analysis Batch: 33441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6	DD-B-4_SS	Total/NA	Solid	8290A	32264
680-96723-8	DD-B-9_SS	Total/NA	Solid	8290A	32264
LCS 320-32264/2-A	Lab Control Sample	Total/NA	Solid	8290A	32264
MB 320-32264/1-A	Method Blank	Total/NA	Solid	8290A	32264

Prep Batch: 33524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	HRMS-Sep	
LCS 320-33524/2-A	Lab Control Sample	Total/NA	Water	HRMS-Sep	
MB 320-33524/1-A	Method Blank	Total/NA	Water	HRMS-Sep	

Analysis Batch: 33854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6 - RA	DD-B-4_SS	Total/NA	Solid	8290A	32264
680-96723-8 - RA	DD-B-9_SS	Total/NA	Solid	8290A	32264

Analysis Batch: 34242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-32277/2-A	Lab Control Sample	Total/NA	Solid	1668C	32277
MB 320-32277/1-A	Method Blank	Total/NA	Solid	1668C	32277

Analysis Batch: 34287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-33524/2-A	Lab Control Sample	Total/NA	Water	1668C	33524
MB 320-33524/1-A	Method Blank	Total/NA	Water	1668C	33524

Analysis Batch: 34825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6 - DL	DD-B-4_SS	Total/NA	Solid	8290A	32264

Analysis Batch: 35734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6	DD-B-4_SS	Total/NA	Solid	1668C	32277
680-96723-8	DD-B-9_SS	Total/NA	Solid	1668C	32277
680-96723-14	RINSATE	Total/NA	Water	1668C	33524
LCS 320-32864/2-A	Lab Control Sample	Total/NA	Solid	1668C	32864
MB 320-32864/1-A	Method Blank	Total/NA	Solid	1668C	32864

Specialty Organics (Continued)

Analysis Batch: 35735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-1	P-B-7_SS	Total/NA	Solid	1668C	32864
680-96723-1 MS	P-B-7_SS	Total/NA	Solid	1668C	32864
680-96723-1 MSD	P-B-7_SS	Total/NA	Solid	1668C	32864

Analysis Batch: 35861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-2 - DL	P-B-7_SS DUP	Total/NA	Solid	1668C	32864
680-96723-10 - DL	DD-B-6_SS	Total/NA	Solid	1668C	32864
680-96723-12 - DL	P-B-4_SS	Total/NA	Solid	1668C	32864

Analysis Batch: 35959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-4	P-B-5_SS	Total/NA	Solid	1668C	32864

Metals

Prep Batch: 89914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-1	P-B-7_SS	Total/NA	Solid	3050B	
680-96723-1 MS	P-B-7_SS	Total/NA	Solid	3050B	
680-96723-1 MSD	P-B-7_SS	Total/NA	Solid	3050B	
680-96723-2	P-B-7_SS DUP	Total/NA	Solid	3050B	
680-96723-3	P-B-7_SUB	Total/NA	Solid	3050B	
680-96723-4	P-B-5_SS	Total/NA	Solid	3050B	
680-96723-5	P-B-5_SUB	Total/NA	Solid	3050B	
680-96723-6	DD-B-4_SS	Total/NA	Solid	3050B	
680-96723-7	DD-B-4_SUB	Total/NA	Solid	3050B	
LCS 160-89914/13-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 160-89914/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-89914/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 89919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-1	P-B-7_SS	Total/NA	Solid	3050B	
680-96723-1 MS	P-B-7_SS	Total/NA	Solid	3050B	
680-96723-1 MSD	P-B-7_SS	Total/NA	Solid	3050B	
680-96723-2	P-B-7_SS DUP	Total/NA	Solid	3050B	
680-96723-3	P-B-7_SUB	Total/NA	Solid	3050B	
680-96723-4	P-B-5_SS	Total/NA	Solid	3050B	
680-96723-5	P-B-5_SUB	Total/NA	Solid	3050B	
680-96723-6	DD-B-4_SS	Total/NA	Solid	3050B	
680-96723-7	DD-B-4_SUB	Total/NA	Solid	3050B	
LCS 160-89919/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-89919/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 90103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-8	DD-B-9_SS	Total/NA	Solid	3050B	
680-96723-9	DD-B-9_SUB	Total/NA	Solid	3050B	
680-96723-10	DD-B-6_SS	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 90103 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-11	DD-B-6_SUB	Total/NA	Solid	3050B	
680-96723-12	P-B-4_SS	Total/NA	Solid	3050B	
680-96723-13	P-B-4_SUB	Total/NA	Solid	3050B	
680-96723-13 MS	P-B-4_SUB	Total/NA	Solid	3050B	
680-96723-13 MSD	P-B-4_SUB	Total/NA	Solid	3050B	
LCS 160-90103/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-90103/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 90110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-8	DD-B-9_SS	Total/NA	Solid	3050B	
680-96723-9	DD-B-9_SUB	Total/NA	Solid	3050B	
680-96723-10	DD-B-6_SS	Total/NA	Solid	3050B	
680-96723-11	DD-B-6_SUB	Total/NA	Solid	3050B	
680-96723-12	P-B-4_SS	Total/NA	Solid	3050B	
680-96723-13	P-B-4_SUB	Total/NA	Solid	3050B	
680-96723-13 MS	P-B-4_SUB	Total/NA	Solid	3050B	
680-96723-13 MSD	P-B-4_SUB	Total/NA	Solid	3050B	
LCS 160-90110/11-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 160-90110/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-90110/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 90143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	7470A	
680-96723-14 MS	RINSATE	Total/NA	Water	7470A	
680-96723-14 MSD	RINSATE	Total/NA	Water	7470A	
LCS 160-90143/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 160-90143/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 90382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-1	P-B-7_SS	Total/NA	Solid	7471B	
680-96723-1 MS	P-B-7_SS	Total/NA	Solid	7471B	
680-96723-1 MSD	P-B-7_SS	Total/NA	Solid	7471B	
680-96723-2	P-B-7_SS DUP	Total/NA	Solid	7471B	
680-96723-3	P-B-7_SUB	Total/NA	Solid	7471B	
680-96723-4	P-B-5_SS	Total/NA	Solid	7471B	
680-96723-5	P-B-5_SUB	Total/NA	Solid	7471B	
680-96723-6	DD-B-4_SS	Total/NA	Solid	7471B	
680-96723-7	DD-B-4_SUB	Total/NA	Solid	7471B	
680-96723-8	DD-B-9_SS	Total/NA	Solid	7471B	
680-96723-9	DD-B-9_SUB	Total/NA	Solid	7471B	
680-96723-10	DD-B-6_SS	Total/NA	Solid	7471B	
680-96723-11	DD-B-6_SUB	Total/NA	Solid	7471B	
680-96723-12	P-B-4_SS	Total/NA	Solid	7471B	
680-96723-13	P-B-4_SUB	Total/NA	Solid	7471B	
LCS 160-90382/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-90382/1-A	Method Blank	Total/NA	Solid	7471B	

Metals (Continued)

Analysis Batch: 90386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	7470A	90143
680-96723-14 MS	RINSATE	Total/NA	Water	7470A	90143
680-96723-14 MSD	RINSATE	Total/NA	Water	7470A	90143
LCS 160-90143/2-A	Lab Control Sample	Total/NA	Water	7470A	90143
MB 160-90143/1-A	Method Blank	Total/NA	Water	7470A	90143

Analysis Batch: 91139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-1	P-B-7_SS	Total/NA	Solid	7471B	90382
680-96723-1 MS	P-B-7_SS	Total/NA	Solid	7471B	90382
680-96723-1 MSD	P-B-7_SS	Total/NA	Solid	7471B	90382
680-96723-2	P-B-7_SS DUP	Total/NA	Solid	7471B	90382
680-96723-3	P-B-7_SUB	Total/NA	Solid	7471B	90382
680-96723-4	P-B-5_SS	Total/NA	Solid	7471B	90382
680-96723-5	P-B-5_SUB	Total/NA	Solid	7471B	90382
680-96723-6	DD-B-4_SS	Total/NA	Solid	7471B	90382
680-96723-7	DD-B-4_SUB	Total/NA	Solid	7471B	90382
680-96723-8	DD-B-9_SS	Total/NA	Solid	7471B	90382
680-96723-9	DD-B-9_SUB	Total/NA	Solid	7471B	90382
680-96723-10	DD-B-6_SS	Total/NA	Solid	7471B	90382
680-96723-11	DD-B-6_SUB	Total/NA	Solid	7471B	90382
680-96723-12	P-B-4_SS	Total/NA	Solid	7471B	90382
680-96723-13	P-B-4_SUB	Total/NA	Solid	7471B	90382
LCS 160-90382/2-A	Lab Control Sample	Total/NA	Solid	7471B	90382
MB 160-90382/1-A	Method Blank	Total/NA	Solid	7471B	90382

Analysis Batch: 94702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-1	P-B-7_SS	Total/NA	Solid	6020A	89914
680-96723-1 MS	P-B-7_SS	Total/NA	Solid	6020A	89914
680-96723-1 MSD	P-B-7_SS	Total/NA	Solid	6020A	89914
680-96723-2	P-B-7_SS DUP	Total/NA	Solid	6020A	89914
680-96723-3	P-B-7_SUB	Total/NA	Solid	6020A	89914
680-96723-4	P-B-5_SS	Total/NA	Solid	6020A	89914
680-96723-5	P-B-5_SUB	Total/NA	Solid	6020A	89914
680-96723-6	DD-B-4_SS	Total/NA	Solid	6020A	89914
680-96723-7	DD-B-4_SUB	Total/NA	Solid	6020A	89914
LCS 160-89914/13-A	Lab Control Sample	Total/NA	Solid	6020A	89914
LCS 160-89914/2-A	Lab Control Sample	Total/NA	Solid	6020A	89914
MB 160-89914/1-A	Method Blank	Total/NA	Solid	6020A	89914

Analysis Batch: 94959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6	DD-B-4_SS	Total/NA	Solid	6020A	89914

Analysis Batch: 95495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-8	DD-B-9_SS	Total/NA	Solid	6020A	90110
680-96723-9	DD-B-9_SUB	Total/NA	Solid	6020A	90110
680-96723-10	DD-B-6_SS	Total/NA	Solid	6020A	90110
680-96723-11	DD-B-6_SUB	Total/NA	Solid	6020A	90110

Metals (Continued)

Analysis Batch: 95495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-12	P-B-4_SS	Total/NA	Solid	6020A	90110
680-96723-13	P-B-4_SUB	Total/NA	Solid	6020A	90110
680-96723-13 MS	P-B-4_SUB	Total/NA	Solid	6020A	90110
680-96723-13 MSD	P-B-4_SUB	Total/NA	Solid	6020A	90110
LCS 160-90110/11-A	Lab Control Sample	Total/NA	Solid	6020A	90110
LCS 160-90110/2-A	Lab Control Sample	Total/NA	Solid	6020A	90110
MB 160-90110/1-A	Method Blank	Total/NA	Solid	6020A	90110

Prep Batch: 96024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	3010A	
LCS 160-96024/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-96024/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 96025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	3010A	
LCS 160-96025/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-96025/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 96993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	6020A	96024
LCS 160-96024/2-A	Lab Control Sample	Total/NA	Water	6020A	96024
MB 160-96024/1-A	Method Blank	Total/NA	Water	6020A	96024

Analysis Batch: 97021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-1	P-B-7_SS	Total/NA	Solid	6010C	89919
680-96723-1 MS	P-B-7_SS	Total/NA	Solid	6010C	89919
680-96723-1 MSD	P-B-7_SS	Total/NA	Solid	6010C	89919
680-96723-2	P-B-7_SS DUP	Total/NA	Solid	6010C	89919
680-96723-3	P-B-7_SUB	Total/NA	Solid	6010C	89919
680-96723-4	P-B-5_SS	Total/NA	Solid	6010C	89919
680-96723-5	P-B-5_SUB	Total/NA	Solid	6010C	89919
680-96723-6	DD-B-4_SS	Total/NA	Solid	6010C	89919
680-96723-7	DD-B-4_SUB	Total/NA	Solid	6010C	89919
680-96723-8	DD-B-9_SS	Total/NA	Solid	6010C	90103
680-96723-9	DD-B-9_SUB	Total/NA	Solid	6010C	90103
680-96723-10	DD-B-6_SS	Total/NA	Solid	6010C	90103
680-96723-11	DD-B-6_SUB	Total/NA	Solid	6010C	90103
680-96723-12	P-B-4_SS	Total/NA	Solid	6010C	90103
680-96723-13	P-B-4_SUB	Total/NA	Solid	6010C	90103
680-96723-13 MS	P-B-4_SUB	Total/NA	Solid	6010C	90103
680-96723-13 MSD	P-B-4_SUB	Total/NA	Solid	6010C	90103
680-96723-14	RINSATE	Total/NA	Water	6010C	96025
LCS 160-89919/2-A	Lab Control Sample	Total/NA	Solid	6010C	89919
LCS 160-90103/2-A	Lab Control Sample	Total/NA	Solid	6010C	90103
LCS 160-96025/2-A	Lab Control Sample	Total/NA	Water	6010C	96025
MB 160-89919/1-A	Method Blank	Total/NA	Solid	6010C	89919
MB 160-90103/1-A	Method Blank	Total/NA	Solid	6010C	90103

Metals (Continued)

Analysis Batch: 97021 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-96025/1-A	Method Blank	Total/NA	Water	6010C	96025

Analysis Batch: 97078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-5	P-B-5_SUB	Total/NA	Solid	6010C	89919
680-96723-6	DD-B-4_SS	Total/NA	Solid	6010C	89919
680-96723-7	DD-B-4_SUB	Total/NA	Solid	6010C	89919

Analysis Batch: 97291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-8	DD-B-9_SS	Total/NA	Solid	6010C	90103
680-96723-9	DD-B-9_SUB	Total/NA	Solid	6010C	90103
680-96723-10	DD-B-6_SS	Total/NA	Solid	6010C	90103
680-96723-11	DD-B-6_SUB	Total/NA	Solid	6010C	90103
680-96723-12	P-B-4_SS	Total/NA	Solid	6010C	90103
680-96723-13	P-B-4_SUB	Total/NA	Solid	6010C	90103
680-96723-13 MS	P-B-4_SUB	Total/NA	Solid	6010C	90103
680-96723-13 MSD	P-B-4_SUB	Total/NA	Solid	6010C	90103
LCS 160-90103/2-A	Lab Control Sample	Total/NA	Solid	6010C	90103
MB 160-90103/1-A	Method Blank	Total/NA	Solid	6010C	90103

General Chemistry

Analysis Batch: 89925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-1	P-B-7_SS	Total/NA	Solid	Moisture	
680-96723-1 MS	P-B-7_SS	Total/NA	Solid	Moisture	
680-96723-1 MSD	P-B-7_SS	Total/NA	Solid	Moisture	
680-96723-2	P-B-7_SS DUP	Total/NA	Solid	Moisture	
680-96723-3	P-B-7_SUB	Total/NA	Solid	Moisture	
680-96723-4	P-B-5_SS	Total/NA	Solid	Moisture	
680-96723-5	P-B-5_SUB	Total/NA	Solid	Moisture	
680-96723-6	DD-B-4_SS	Total/NA	Solid	Moisture	
680-96723-7	DD-B-4_SUB	Total/NA	Solid	Moisture	
680-96723-8	DD-B-9_SS	Total/NA	Solid	Moisture	
680-96723-9	DD-B-9_SUB	Total/NA	Solid	Moisture	
680-96723-10	DD-B-6_SS	Total/NA	Solid	Moisture	
680-96723-11	DD-B-6_SUB	Total/NA	Solid	Moisture	
680-96723-12	P-B-4_SS	Total/NA	Solid	Moisture	
680-96723-13	P-B-4_SUB	Total/NA	Solid	Moisture	
680-96723-13 DU	P-B-4_SUB	Total/NA	Solid	Moisture	

Analysis Batch: 91112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	300.0	
LCS 160-91112/4	Lab Control Sample	Total/NA	Water	300.0	
MB 160-91112/3	Method Blank	Total/NA	Water	300.0	

General Chemistry (Continued)

Leach Batch: 95433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-1 - DL2	P-B-7_SS	Soluble	Solid	DI Leach	
680-96723-1 - DL	P-B-7_SS	Soluble	Solid	DI Leach	
680-96723-1 MS - DL	P-B-7_SS	Soluble	Solid	DI Leach	
680-96723-1 MS - DL2	P-B-7_SS	Soluble	Solid	DI Leach	
680-96723-1 MSD - DL2	P-B-7_SS	Soluble	Solid	DI Leach	
680-96723-1 MSD - DL	P-B-7_SS	Soluble	Solid	DI Leach	
680-96723-2 - DL	P-B-7_SS DUP	Soluble	Solid	DI Leach	
680-96723-2 - DL2	P-B-7_SS DUP	Soluble	Solid	DI Leach	
680-96723-3	P-B-7_SUB	Soluble	Solid	DI Leach	
680-96723-3 - DL	P-B-7_SUB	Soluble	Solid	DI Leach	
680-96723-4 - DL	P-B-5_SS	Soluble	Solid	DI Leach	
680-96723-4	P-B-5_SS	Soluble	Solid	DI Leach	
680-96723-5 - DL	P-B-5_SUB	Soluble	Solid	DI Leach	
680-96723-6 - DL	DD-B-4_SS	Soluble	Solid	DI Leach	
680-96723-7 - DL	DD-B-4_SUB	Soluble	Solid	DI Leach	
680-96723-7	DD-B-4_SUB	Soluble	Solid	DI Leach	
680-96723-8 - DL	DD-B-9_SS	Soluble	Solid	DI Leach	
680-96723-8 - RADL	DD-B-9_SS	Soluble	Solid	DI Leach	
680-96723-9	DD-B-9_SUB	Soluble	Solid	DI Leach	
680-96723-9 - RADL	DD-B-9_SUB	Soluble	Solid	DI Leach	
680-96723-9 - DL	DD-B-9_SUB	Soluble	Solid	DI Leach	
680-96723-10 - RADL	DD-B-6_SS	Soluble	Solid	DI Leach	
680-96723-10	DD-B-6_SS	Soluble	Solid	DI Leach	
680-96723-10 - DL	DD-B-6_SS	Soluble	Solid	DI Leach	
680-96723-11 - RADL	DD-B-6_SUB	Soluble	Solid	DI Leach	
680-96723-11	DD-B-6_SUB	Soluble	Solid	DI Leach	
680-96723-12 - RADL	P-B-4_SS	Soluble	Solid	DI Leach	
680-96723-12 - DL	P-B-4_SS	Soluble	Solid	DI Leach	
680-96723-13 - DL	P-B-4_SUB	Soluble	Solid	DI Leach	
680-96723-13 - RADL	P-B-4_SUB	Soluble	Solid	DI Leach	
LCS 160-95433/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 160-95433/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 97447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-1 - DL	P-B-7_SS	Soluble	Solid	300.0	95433
680-96723-1 - DL2	P-B-7_SS	Soluble	Solid	300.0	95433
680-96723-1 MS - DL	P-B-7_SS	Soluble	Solid	300.0	95433
680-96723-1 MS - DL2	P-B-7_SS	Soluble	Solid	300.0	95433
680-96723-1 MSD - DL	P-B-7_SS	Soluble	Solid	300.0	95433
680-96723-1 MSD - DL2	P-B-7_SS	Soluble	Solid	300.0	95433
680-96723-2 - DL	P-B-7_SS DUP	Soluble	Solid	300.0	95433
680-96723-2 - DL2	P-B-7_SS DUP	Soluble	Solid	300.0	95433
680-96723-3	P-B-7_SUB	Soluble	Solid	300.0	95433
680-96723-3 - DL	P-B-7_SUB	Soluble	Solid	300.0	95433
680-96723-4	P-B-5_SS	Soluble	Solid	300.0	95433
680-96723-4 - DL	P-B-5_SS	Soluble	Solid	300.0	95433
680-96723-5 - DL	P-B-5_SUB	Soluble	Solid	300.0	95433
680-96723-6 - DL	DD-B-4_SS	Soluble	Solid	300.0	95433
680-96723-7	DD-B-4_SUB	Soluble	Solid	300.0	95433
680-96723-7 - DL	DD-B-4_SUB	Soluble	Solid	300.0	95433

General Chemistry (Continued)

Analysis Batch: 97447 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-8 - DL	DD-B-9_SS	Soluble	Solid	300.0	95433
680-96723-8 - RADL	DD-B-9_SS	Soluble	Solid	300.0	95433
680-96723-9	DD-B-9_SUB	Soluble	Solid	300.0	95433
680-96723-9 - DL	DD-B-9_SUB	Soluble	Solid	300.0	95433
680-96723-9 - RADL	DD-B-9_SUB	Soluble	Solid	300.0	95433
680-96723-10	DD-B-6_SS	Soluble	Solid	300.0	95433
680-96723-10 - DL	DD-B-6_SS	Soluble	Solid	300.0	95433
680-96723-10 - RADL	DD-B-6_SS	Soluble	Solid	300.0	95433
680-96723-11	DD-B-6_SUB	Soluble	Solid	300.0	95433
680-96723-11 - RADL	DD-B-6_SUB	Soluble	Solid	300.0	95433
680-96723-12 - DL	P-B-4_SS	Soluble	Solid	300.0	95433
680-96723-12 - RADL	P-B-4_SS	Soluble	Solid	300.0	95433
680-96723-13 - DL	P-B-4_SUB	Soluble	Solid	300.0	95433
680-96723-13 - RADL	P-B-4_SUB	Soluble	Solid	300.0	95433
LCS 160-95433/2-A	Lab Control Sample	Soluble	Solid	300.0	95433
MB 160-95433/1-A	Method Blank	Soluble	Solid	300.0	95433

Rad

Prep Batch: 89951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	PrecSep-21	
LCS 160-89951/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
MB 160-89951/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Prep Batch: 89952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	PrecSep_0	
LCS 160-89952/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-89952/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Leach Batch: 89961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6	DD-B-4_SS	Total/NA	Solid	Dry and Grind	
680-96723-6 DU	DD-B-4_SS	Total/NA	Solid	Dry and Grind	
680-96723-7	DD-B-4_SUB	Total/NA	Solid	Dry and Grind	
680-96723-8	DD-B-9_SS	Total/NA	Solid	Dry and Grind	
680-96723-9	DD-B-9_SUB	Total/NA	Solid	Dry and Grind	

Prep Batch: 90392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6	DD-B-4_SS	Total/NA	Solid	DPS-21	89961
680-96723-6 DU	DD-B-4_SS	Total/NA	Solid	DPS-21	89961
680-96723-7	DD-B-4_SUB	Total/NA	Solid	DPS-21	89961
680-96723-8	DD-B-9_SS	Total/NA	Solid	DPS-21	89961
680-96723-9	DD-B-9_SUB	Total/NA	Solid	DPS-21	89961
LCS 160-90392/2-A	Lab Control Sample	Total/NA	Solid	DPS-21	
MB 160-90392/1-A	Method Blank	Total/NA	Solid	DPS-21	

Rad (Continued)

Prep Batch: 90393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6	DD-B-4_SS	Total/NA	Solid	Thin_Layer	89961
680-96723-7	DD-B-4_SUB	Total/NA	Solid	Thin_Layer	89961
680-96723-8	DD-B-9_SS	Total/NA	Solid	Thin_Layer	89961
680-96723-9	DD-B-9_SUB	Total/NA	Solid	Thin_Layer	89961
LCS 160-90393/2-A	Lab Control Sample	Total/NA	Solid	Thin_Layer	
MB 160-90393/1-A	Method Blank	Total/NA	Solid	Thin_Layer	

Prep Batch: 90394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6	DD-B-4_SS	Total/NA	Solid	DPS-0	89961
680-96723-6 DU	DD-B-4_SS	Total/NA	Solid	DPS-0	89961
680-96723-7	DD-B-4_SUB	Total/NA	Solid	DPS-0	89961
680-96723-8	DD-B-9_SS	Total/NA	Solid	DPS-0	89961
680-96723-9	DD-B-9_SUB	Total/NA	Solid	DPS-0	89961
LCS 160-90394/2-A	Lab Control Sample	Total/NA	Solid	DPS-0	
MB 160-90394/1-A	Method Blank	Total/NA	Solid	DPS-0	

Prep Batch: 91490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6	DD-B-4_SS	Total/NA	Solid	Fill_Geo-21	89961
680-96723-7	DD-B-4_SUB	Total/NA	Solid	Fill_Geo-21	89961
680-96723-8	DD-B-9_SS	Total/NA	Solid	Fill_Geo-21	89961
680-96723-9	DD-B-9_SUB	Total/NA	Solid	Fill_Geo-21	89961
LCS 160-91490/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-91490/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Prep Batch: 94337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	Fill_Geo-21	
680-96723-14 DU	RINSATE	Total/NA	Water	Fill_Geo-21	
LCS 160-94337/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-21	
MB 160-94337/1-A	Method Blank	Total/NA	Water	Fill_Geo-21	

Prep Batch: 95516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	Evaporation	
680-96723-14 DU	RINSATE	Total/NA	Water	Evaporation	
680-96723-14 MS	RINSATE	Total/NA	Water	Evaporation	
680-96723-14 MSBT	RINSATE	Total/NA	Water	Evaporation	
LCS 160-95516/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-95516/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-95516/1-A	Method Blank	Total/NA	Water	Evaporation	

Prep Batch: 96698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6	DD-B-4_SS	Total/NA	Solid	ExtChrom	89961
680-96723-6 DU	DD-B-4_SS	Total/NA	Solid	ExtChrom	89961
680-96723-7	DD-B-4_SUB	Total/NA	Solid	ExtChrom	89961
680-96723-8	DD-B-9_SS	Total/NA	Solid	ExtChrom	89961
680-96723-9	DD-B-9_SUB	Total/NA	Solid	ExtChrom	89961
LCS 160-96698/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	

Rad (Continued)

Prep Batch: 96698 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-96698/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 97007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-97007/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-97007/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-97007/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 100377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-6	DD-B-4_SS	Total/NA	Solid	ExtChrom	89961
680-96723-6 DU	DD-B-4_SS	Total/NA	Solid	ExtChrom	89961
680-96723-7	DD-B-4_SUB	Total/NA	Solid	ExtChrom	89961
680-96723-8	DD-B-9_SS	Total/NA	Solid	ExtChrom	89961
680-96723-9	DD-B-9_SUB	Total/NA	Solid	ExtChrom	89961
LCS 160-100377/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-100377/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 100386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96723-14	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-100386/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-100386/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-100386/1-A	Method Blank	Total/NA	Water	ExtChrom	

Client Sample ID: P-B-7_SS

Lab Sample ID: 680-96723-1

Date Collected: 12/02/13 10:15

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			32864	12/30/13 13:50	GDB	TAL SAC
Total/NA	Analysis	1668C		10	35735	02/08/14 12:19	KSS	TAL SAC
Total/NA	Prep	7471B			90382	12/09/13 07:33	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:05	MTS	TAL SL
Total/NA	Prep	3050B			89914	12/05/13 09:53	WA1	TAL SL
Total/NA	Analysis	6020A		10	94702	12/25/13 05:18	CCB	TAL SL
Total/NA	Prep	3050B			89919	12/05/13 10:06	WA1	TAL SL
Total/NA	Analysis	6010C		5	97021	01/08/14 14:33	KLE	TAL SL
Total/NA	Analysis	Moisture		1	89925	12/05/13 10:33	SDB	TAL SL
Soluble	Leach	DI Leach	DL		95433	12/30/13 13:50	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97447	01/08/14 03:23	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		95433	12/30/13 13:50	AMF	TAL SL
Soluble	Analysis	300.0	DL2	50	97447	01/08/14 03:39	AMF	TAL SL

Client Sample ID: P-B-7_SS DUP

Lab Sample ID: 680-96723-2

Date Collected: 12/02/13 10:15

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	DL		32864	12/30/13 13:50	GDB	TAL SAC
Total/NA	Analysis	1668C	DL	10	35861	02/09/14 01:15	KSS	TAL SAC
Total/NA	Prep	7471B			90382	12/09/13 07:33	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:15	MTS	TAL SL
Total/NA	Prep	3050B			89914	12/05/13 09:53	WA1	TAL SL
Total/NA	Analysis	6020A		10	94702	12/25/13 05:45	CCB	TAL SL
Total/NA	Prep	3050B			89919	12/05/13 10:06	WA1	TAL SL
Total/NA	Analysis	6010C		5	97021	01/08/14 14:48	KLE	TAL SL
Total/NA	Analysis	Moisture		1	89925	12/05/13 10:33	SDB	TAL SL
Soluble	Leach	DI Leach	DL		95433	12/30/13 13:50	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97447	01/08/14 05:51	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		95433	12/30/13 13:50	AMF	TAL SL
Soluble	Analysis	300.0	DL2	50	97447	01/08/14 15:09	AMF	TAL SL

Client Sample ID: P-B-7_SUB

Lab Sample ID: 680-96723-3

Date Collected: 12/02/13 11:20

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90382	12/09/13 07:33	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:17	MTS	TAL SL
Total/NA	Prep	3050B			89914	12/05/13 09:53	WA1	TAL SL
Total/NA	Analysis	6020A		10	94702	12/25/13 05:52	CCB	TAL SL
Total/NA	Prep	3050B			89919	12/05/13 10:06	WA1	TAL SL

Client Sample ID: P-B-7_SUB

Lab Sample ID: 680-96723-3

Date Collected: 12/02/13 11:20
Matrix: Solid
Date Received: 12/04/13 09:20
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		5	97021	01/08/14 14:52	KLE	TAL SL
Total/NA	Analysis	Moisture		1	89925	12/05/13 10:33	SDB	TAL SL
Soluble	Leach	DI Leach			95433	12/30/13 13:50	AMF	TAL SL
Soluble	Analysis	300.0		1	97447	01/08/14 06:07	AMF	TAL SL
Soluble	Leach	DI Leach	DL		95433	12/30/13 13:50	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97447	01/08/14 06:24	AMF	TAL SL

Client Sample ID: P-B-5_SS

Lab Sample ID: 680-96723-4

Date Collected: 12/02/13 12:55
Matrix: Solid
Date Received: 12/04/13 09:20
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			32864	12/30/13 13:50	GDB	TAL SAC
Total/NA	Analysis	1668C		1	35959	02/10/14 18:30	KSS	TAL SAC
Total/NA	Prep	7471B			90382	12/09/13 07:33	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:18	MTS	TAL SL
Total/NA	Prep	3050B			89914	12/05/13 09:53	WA1	TAL SL
Total/NA	Analysis	6020A		10	94702	12/25/13 05:59	CCB	TAL SL
Total/NA	Prep	3050B			89919	12/05/13 10:06	WA1	TAL SL
Total/NA	Analysis	6010C		5	97021	01/08/14 14:56	KLE	TAL SL
Total/NA	Analysis	Moisture		1	89925	12/05/13 10:33	SDB	TAL SL
Soluble	Leach	DI Leach			95433	12/30/13 13:50	AMF	TAL SL
Soluble	Analysis	300.0		1	97447	01/08/14 06:40	AMF	TAL SL
Soluble	Leach	DI Leach	DL		95433	12/30/13 13:50	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97447	01/08/14 06:57	AMF	TAL SL

Client Sample ID: P-B-5_SUB

Lab Sample ID: 680-96723-5

Date Collected: 12/02/13 13:30
Matrix: Solid
Date Received: 12/04/13 09:20
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90382	12/09/13 07:33	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:20	MTS	TAL SL
Total/NA	Prep	3050B			89914	12/05/13 09:53	WA1	TAL SL
Total/NA	Analysis	6020A		10	94702	12/25/13 06:19	CCB	TAL SL
Total/NA	Analysis	6010C		5	97021	01/08/14 15:07	KLE	TAL SL
Total/NA	Prep	3050B			89919	12/05/13 10:06	WA1	TAL SL
Total/NA	Analysis	6010C		5	97078	01/09/14 12:37	KLE	TAL SL
Total/NA	Analysis	Moisture		1	89925	12/05/13 10:33	SDB	TAL SL
Soluble	Leach	DI Leach	DL		95433	12/30/13 13:50	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97447	01/08/14 07:13	AMF	TAL SL

Client Sample ID: DD-B-4_SS

Lab Sample ID: 680-96723-6

Date Collected: 12/02/13 14:30

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			92253	12/16/13 13:12	KKA	TAL SL
Total/NA	Analysis	8270D		1	95077	12/26/13 21:09	MAK	TAL SL
Total/NA	Prep	8290			32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A		1	33441	01/08/14 04:11	JRB	TAL SAC
Total/NA	Prep	8290	RA		32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A	RA	1	33854	01/14/14 04:56	JRB	TAL SAC
Total/NA	Prep	8290	DL		32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A	DL	30	34825	01/25/14 07:03	JRB	TAL SAC
Total/NA	Prep	HRMS-Sox			32277	12/19/13 17:37	GDB	TAL SAC
Total/NA	Analysis	1668C		10	35734	02/08/14 00:38	KSS	TAL SAC
Total/NA	Prep	7471B			90382	12/09/13 07:33	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:22	MTS	TAL SL
Total/NA	Prep	3050B			89914	12/05/13 09:53	WA1	TAL SL
Total/NA	Analysis	6020A		10	94702	12/25/13 06:26	CCB	TAL SL
Total/NA	Analysis	6020A		20	94959	12/26/13 18:07	CCB	TAL SL
Total/NA	Analysis	6010C		5	97021	01/08/14 15:11	KLE	TAL SL
Total/NA	Prep	3050B			89919	12/05/13 10:06	WA1	TAL SL
Total/NA	Analysis	6010C		5	97078	01/09/14 12:40	KLE	TAL SL
Total/NA	Analysis	Moisture		1	89925	12/05/13 10:33	SDB	TAL SL
Soluble	Leach	DI Leach	DL		95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97447	01/08/14 07:29	AMF	TAL SL
Total/NA	Prep	ExtChrom			100377	01/22/14 08:12	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	101420	01/24/14 19:12	MLK	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	Thin_Layer			90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	90958	12/10/13 06:33	RTM	TAL SL
Total/NA	Prep	DPS-0			90394	12/09/13 09:05	LEM	TAL SL
Total/NA	Analysis	904.0		1	95465	12/30/13 10:59	RTM	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	DPS-21			90392	12/09/13 08:58	LEM	TAL SL
Total/NA	Analysis	903.0		1	95626	01/01/14 15:58	MLK	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			91490	12/12/13 15:18	MJS	TAL SL
Total/NA	Analysis	901.1		1	95988	01/03/14 09:26	SMP	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	ExtChrom			96698	01/06/14 12:37	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	99002	01/16/14 23:40	LES	TAL SL

Client Sample ID: DD-B-4_SUB

Lab Sample ID: 680-96723-7

Date Collected: 12/02/13 15:11

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90382	12/09/13 07:33	MTS	TAL SL

Client Sample ID: DD-B-4_SUB

Lab Sample ID: 680-96723-7

Date Collected: 12/02/13 15:11

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	91139	12/11/13 12:23	MTS	TAL SL
Total/NA	Prep	3050B			89914	12/05/13 09:53	WA1	TAL SL
Total/NA	Analysis	6020A		10	94702	12/25/13 06:32	CCB	TAL SL
Total/NA	Prep	3050B			89919	12/05/13 10:06	WA1	TAL SL
Total/NA	Analysis	6010C		5	97021	01/08/14 15:15	KLE	TAL SL
Total/NA	Analysis	6010C		5	97078	01/09/14 12:44	KLE	TAL SL
Total/NA	Analysis	Moisture		1	89925	12/05/13 10:33	SDB	TAL SL
Soluble	Leach	DI Leach			95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0		1	97447	01/08/14 07:46	AMF	TAL SL
Soluble	Leach	DI Leach	DL		95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97447	01/08/14 08:02	AMF	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	ExtChrom			100377	01/22/14 08:12	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	101422	01/24/14 19:13	MLK	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	Thin_Layer			90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	90958	12/10/13 06:33	RTM	TAL SL
Total/NA	Prep	DPS-0			90394	12/09/13 09:05	LEM	TAL SL
Total/NA	Analysis	904.0		1	95465	12/30/13 11:00	RTM	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	DPS-21			90392	12/09/13 08:58	LEM	TAL SL
Total/NA	Analysis	903.0		1	95626	01/01/14 15:58	MLK	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			91490	12/12/13 15:18	MJS	TAL SL
Total/NA	Analysis	901.1		1	95979	01/03/14 09:23	SMP	TAL SL
Total/NA	Prep	ExtChrom			96698	01/06/14 12:37	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	99180	01/17/14 19:28	LES	TAL SL

Client Sample ID: DD-B-9_SS

Lab Sample ID: 680-96723-8

Date Collected: 12/03/13 08:00

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			92253	12/16/13 13:12	KKA	TAL SL
Total/NA	Analysis	8270D		1	95077	12/26/13 21:41	MAK	TAL SL
Total/NA	Prep	8290			32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A		1	33441	01/08/14 04:53	JRB	TAL SAC
Total/NA	Prep	8290	RA		32264	12/19/13 15:47	GDB	TAL SAC
Total/NA	Analysis	8290A	RA	1	33854	01/14/14 01:49	JRB	TAL SAC
Total/NA	Prep	HRMS-Sox			32277	12/19/13 17:37	GDB	TAL SAC
Total/NA	Analysis	1668C		10	35734	02/08/14 01:54	KSS	TAL SAC
Total/NA	Prep	7471B			90382	12/09/13 07:33	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:25	MTS	TAL SL
Total/NA	Prep	3050B			90110	12/06/13 07:42	WA1	TAL SL

Client Sample ID: DD-B-9_SS

Lab Sample ID: 680-96723-8

Date Collected: 12/03/13 08:00

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6020A		10	95495	12/31/13 01:28	CCB	TAL SL
Total/NA	Analysis	6010C		5	97021	01/08/14 15:26	KLE	TAL SL
Total/NA	Prep	3050B			90103	12/06/13 07:38	WA1	TAL SL
Total/NA	Analysis	6010C		10	97291	01/09/14 22:12	KLE	TAL SL
Total/NA	Analysis	Moisture		1	89925	12/05/13 10:33	SDB	TAL SL
Soluble	Leach	DI Leach	DL		95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97447	01/08/14 08:52	AMF	TAL SL
Soluble	Leach	DI Leach	RADL		95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0	RADL	200	97447	01/08/14 13:31	AMF	TAL SL
Total/NA	Prep	ExtChrom			100377	01/22/14 08:12	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	101423	01/24/14 19:13	MLK	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	Thin_Layer			90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	90958	12/10/13 06:34	RTM	TAL SL
Total/NA	Prep	DPS-0			90394	12/09/13 09:06	LEM	TAL SL
Total/NA	Analysis	904.0		1	95465	12/30/13 11:00	RTM	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	DPS-21			90392	12/09/13 08:58	LEM	TAL SL
Total/NA	Analysis	903.0		1	95626	01/01/14 15:58	MLK	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			91490	12/12/13 15:18	MJS	TAL SL
Total/NA	Analysis	901.1		1	95980	01/03/14 09:24	SMP	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	ExtChrom			96698	01/06/14 12:37	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	99005	01/16/14 23:40	LES	TAL SL

Client Sample ID: DD-B-9_SUB

Lab Sample ID: 680-96723-9

Date Collected: 12/03/13 08:50

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90382	12/09/13 07:33	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:26	MTS	TAL SL
Total/NA	Prep	3050B			90110	12/06/13 07:42	WA1	TAL SL
Total/NA	Analysis	6020A		10	95495	12/31/13 01:35	CCB	TAL SL
Total/NA	Prep	3050B			90103	12/06/13 07:38	WA1	TAL SL
Total/NA	Analysis	6010C		5	97021	01/08/14 15:30	KLE	TAL SL
Total/NA	Analysis	6010C		10	97291	01/09/14 22:24	KLE	TAL SL
Total/NA	Analysis	Moisture		1	89925	12/05/13 10:33	SDB	TAL SL
Soluble	Leach	DI Leach			95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0		1	97447	01/08/14 09:24	AMF	TAL SL
Soluble	Leach	DI Leach	DL		95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97447	01/08/14 09:41	AMF	TAL SL

Client Sample ID: DD-B-9_SUB

Lab Sample ID: 680-96723-9

Date Collected: 12/03/13 08:50

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach	RADL		95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0	RADL	20	97447	01/08/14 13:47	AMF	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	ExtChrom			100377	01/22/14 08:12	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	101424	01/24/14 19:13	MLK	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	Thin_Layer			90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	90958	12/10/13 06:34	RTM	TAL SL
Total/NA	Prep	DPS-0			90394	12/09/13 09:06	LEM	TAL SL
Total/NA	Analysis	904.0		1	95465	12/30/13 11:00	RTM	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	DPS-21			90392	12/09/13 08:58	LEM	TAL SL
Total/NA	Analysis	903.0		1	95626	01/01/14 15:59	MLK	TAL SL
Total/NA	Leach	Dry and Grind			89961	12/05/13 14:36	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			91490	12/12/13 15:18	MJS	TAL SL
Total/NA	Analysis	901.1		1	95981	01/03/14 09:25	SMP	TAL SL
Total/NA	Prep	ExtChrom			96698	01/06/14 12:37	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	99006	01/16/14 23:40	LES	TAL SL

Client Sample ID: DD-B-6_SS

Lab Sample ID: 680-96723-10

Date Collected: 12/03/13 09:25

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	DL		32864	12/30/13 13:50	GDB	TAL SAC
Total/NA	Analysis	1668C	DL	10	35861	02/09/14 03:46	KSS	TAL SAC
Total/NA	Prep	7471B			90382	12/09/13 07:33	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:28	MTS	TAL SL
Total/NA	Prep	3050B			90110	12/06/13 07:42	WA1	TAL SL
Total/NA	Analysis	6020A		10	95495	12/31/13 01:41	CCB	TAL SL
Total/NA	Analysis	6010C		5	97021	01/08/14 15:34	KLE	TAL SL
Total/NA	Prep	3050B			90103	12/06/13 07:38	WA1	TAL SL
Total/NA	Analysis	6010C		10	97291	01/09/14 22:28	KLE	TAL SL
Total/NA	Analysis	Moisture		1	89925	12/05/13 10:33	SDB	TAL SL
Soluble	Leach	DI Leach			95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0		1	97447	01/08/14 09:57	AMF	TAL SL
Soluble	Leach	DI Leach	DL		95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97447	01/08/14 10:14	AMF	TAL SL
Soluble	Leach	DI Leach	RADL		95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0	RADL	50	97447	01/08/14 14:04	AMF	TAL SL

Client Sample ID: DD-B-6_SUB

Lab Sample ID: 680-96723-11

Date Collected: 12/03/13 10:15

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90382	12/09/13 07:33	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:33	MTS	TAL SL
Total/NA	Prep	3050B			90110	12/06/13 07:42	WA1	TAL SL
Total/NA	Analysis	6020A		10	95495	12/31/13 01:48	CCB	TAL SL
Total/NA	Prep	3050B			90103	12/06/13 07:38	WA1	TAL SL
Total/NA	Analysis	6010C		5	97021	01/08/14 15:38	KLE	TAL SL
Total/NA	Analysis	6010C		10	97291	01/09/14 22:31	KLE	TAL SL
Total/NA	Analysis	Moisture		1	89925	12/05/13 10:33	SDB	TAL SL
Soluble	Leach	DI Leach			95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0		1	97447	01/08/14 10:46	AMF	TAL SL
Soluble	Leach	DI Leach	RADL		95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0	RADL	20	97447	01/08/14 14:20	AMF	TAL SL

Client Sample ID: P-B-4_SS

Lab Sample ID: 680-96723-12

Date Collected: 12/03/13 11:30

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	DL		32864	12/30/13 13:59	GDB	TAL SAC
Total/NA	Analysis	1668C	DL	10	35861	02/09/14 05:01	KSS	TAL SAC
Total/NA	Prep	7471B			90382	12/09/13 07:33	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:35	MTS	TAL SL
Total/NA	Prep	3050B			90110	12/06/13 07:42	WA1	TAL SL
Total/NA	Analysis	6020A		10	95495	12/31/13 01:55	CCB	TAL SL
Total/NA	Analysis	6010C		5	97021	01/08/14 15:42	KLE	TAL SL
Total/NA	Prep	3050B			90103	12/06/13 07:38	WA1	TAL SL
Total/NA	Analysis	6010C		10	97291	01/09/14 22:35	KLE	TAL SL
Total/NA	Analysis	Moisture		1	89925	12/05/13 10:33	SDB	TAL SL
Soluble	Leach	DI Leach	DL		95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97447	01/08/14 11:52	AMF	TAL SL
Soluble	Leach	DI Leach	RADL		95433	12/30/13 13:54	AMF	TAL SL
Soluble	Analysis	300.0	RADL	50	97447	01/08/14 14:36	AMF	TAL SL

Client Sample ID: P-B-4_SUB

Lab Sample ID: 680-96723-13

Date Collected: 12/03/13 12:30

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90382	12/09/13 07:33	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:36	MTS	TAL SL
Total/NA	Prep	3050B			90110	12/06/13 07:42	WA1	TAL SL
Total/NA	Analysis	6020A		10	95495	12/31/13 02:01	CCB	TAL SL
Total/NA	Prep	3050B			90103	12/06/13 07:38	WA1	TAL SL

Client Sample ID: P-B-4_SUB

Lab Sample ID: 680-96723-13

Date Collected: 12/03/13 12:30

Matrix: Solid

Date Received: 12/04/13 09:20

Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		5	97021	01/08/14 15:53	KLE	TAL SL
Total/NA	Analysis	6010C		10	97291	01/09/14 22:39	KLE	TAL SL
Total/NA	Analysis	Moisture		1	89925	12/05/13 10:33	SDB	TAL SL
Soluble	Leach	DI Leach	DL		95433	12/30/13 14:16	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97447	01/08/14 12:25	AMF	TAL SL
Soluble	Leach	DI Leach	RADL		95433	12/30/13 14:16	AMF	TAL SL
Soluble	Analysis	300.0	RADL	100	97447	01/08/14 14:53	AMF	TAL SL

Client Sample ID: RINSATE

Lab Sample ID: 680-96723-14

Date Collected: 12/03/13 12:30

Matrix: Water

Date Received: 12/04/13 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			89913	12/05/13 09:43	JBH	TAL SL
Total/NA	Analysis	8270D		1	98088	01/11/14 20:19	JSW	TAL SL
Total/NA	Prep	HRMS-Sep			33524	01/09/14 13:29	CCC	TAL SAC
Total/NA	Analysis	1668C		1	35734	02/07/14 19:37	KSS	TAL SAC
Total/NA	Prep	7470A			90143	12/06/13 11:35	MTS	TAL SL
Total/NA	Analysis	7470A		1	90386	12/06/13 15:38	MTS	TAL SL
Total/NA	Prep	3010A			96024	01/03/14 17:29	KLE	TAL SL
Total/NA	Analysis	6020A		1	96993	01/09/14 00:39	CCB	TAL SL
Total/NA	Prep	3010A			96025	01/03/14 17:29	KLE	TAL SL
Total/NA	Analysis	6010C		1	97021	01/08/14 13:43	KLE	TAL SL
Total/NA	Analysis	300.0		1	91112	12/04/13 12:47	JCB	TAL SL
Total/NA	Prep	ExtChrom			100386	01/22/14 08:57	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100988	01/23/14 22:10	LES	TAL SL
Total/NA	Prep	PrecSep_0			89952	12/05/13 13:32	RLS	TAL SL
Total/NA	Analysis	904.0		1	94684	12/24/13 11:52	RTM	TAL SL
Total/NA	Prep	PrecSep-21			89951	12/05/13 13:16	RLS	TAL SL
Total/NA	Analysis	903.0		1	95039	12/27/13 09:49	EMN	TAL SL
Total/NA	Prep	Evaporation			95516	12/31/13 12:16	MJS	TAL SL
Total/NA	Analysis	900.0		1	95840	01/02/14 18:28	RTM	TAL SL
Total/NA	Prep	Fill_Geo-21			94337	12/23/13 17:56	MJS	TAL SL
Total/NA	Analysis	901.1		1	97577	01/11/14 04:34	SMP	TAL SL
Total/NA	Prep	ExtChrom			97007	01/09/14 09:41	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	98992	01/16/14 23:39	LES	TAL SL

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 580-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 580-96723
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify), Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0, 9056, 9040, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (EGD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	J	F	N	N		
P-B-7_SS	12-2-13	0-0.5	Pond Areas	1015	C/G	S				1				1	1							3	120,60
P-B-7_SUB	12-2-13	10-15	Pond Areas	1120	C/G	S				1				1								2	120,60
P-B-7 SS MS/MSD	12-2-13	0-0.5		1015						2				2	2							6	120,60 — 2x120
P-B-7 SS DUP	12-2-13	0-0.5		1015						1				1	1							6	~~120,60~~, 120, 120
																						0	
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																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
J. Shelkey	12/3/13 0800	GEI	J. Shelkey	12/3/13 0900	GEI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
J. Shelkey	12/3/13	GEI			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/3/13 1700 CST		Gil Clark	12.4.13 0920	TAST

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.9 c / 5.1 c

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96723
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	J	F	N	N		
P-B-5_SS	12/2/13	0-0.5	Pond Areas	1255	C/G	S				1				1	1							3	120, 60
P-B-5_SUB	12/2/13	10-15	Pond Areas	1330	C/G	S				1				1								2	↓
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 0800 12/3/13	Company: GEI	Received by: JB Shelkey	Date/Time: 12/3/13 0800 Company: GEI
Relinquished by: J. Shelkey	Date/Time: 12/3/13 1300	Company: GEI	Received by: [signature]	Date/Time: 12/3/13 1300 Company: TA
Relinquished by: [signature]	Date/Time: 12/3/13 1600 Fri	Company: TA	Received by: [signature] Clark	Date/Time: 12.4.13 0920 Company: TA STL

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.9 C / 5.1 C

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96723
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	16580 (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	P	F	N	N			
DD-B-4_SS	12/2/13	0-0.5	Drainage Ditches	1430	C/G	S			1	1	2	1		1	1						^	7	2x500p, 4x120
DD-B-4_SUB	12/2/13	5.5-10.5	Drainage Ditches	1511	C/G	S			1	1	2			1								5	2x500p, 2x120, 60z
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 12/3/13 0900	Company: GEI	Received by: J. Shelkey	Date/Time: 12/3/13 0900	Company: GEI		
Relinquished by:	Date/Time: 12/3/13 1700	Company: GEI	Received by:	Date/Time: 12/3/13 1700	Company: FA		
Relinquished by:	Date/Time: 12/3/13 1600	Company: FA	Received by:	Date/Time: 12-4-13 0920	Company: TA STL		

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.9C/5.1C

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96723
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011864			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	J	F	N	N		
DD-B-9_SS	12/3/13	0-0.5	Drainage Ditches	0800	C/G	S			1	1	2	1		1	1						^	7	2x500, 4x120
DD-B-9_SUB	12/3/13	10-18	Drainage Ditches	0850	C/G	S			1	1	2			1								5	2x500, 2x120, 60
																						0	~~2x1, 5x2, 500, 250, Nitric 250 samples~~
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	12/3/2013 1000	GEI	J. Shelkey	12/3/2013	GEI
J. Shelkey [signature]	12/3/2013 ~~1000~~ 1300	GEI	[signature]	12/3/13 1300	TA
[signature]	12/3/13 1600	TA	[signature]	12.4.13 0920	TA SR

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.9C/5.1C

TestAmerica Savannah
5102 LaRocha Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96723
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8260C - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	P	J	E	N	N	X	
DD-B-6_SS	12-3-13	0-0.5	Drainage Ditches	0925	C/G	S				1				1	1							3	120, 60
DD-B-6_SUB	12-3-13	10-15	Drainage Ditches	1015	C/G	S				1				1								3	↓
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify); Other:

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client ☐ Disposal By Lab ☐ Archive Until GEI releases for disposal. ■

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 12/3/13 1230	Company: GEI	Received by: J Shelkey	Date/Time: 12/3/13 1230 Company: GEI
Relinquished by: J. Shelkey	Date/Time: 12/3/13 1330	Company: GEI	Received by:	Date/Time: 12/3/13 1330 Company: FD
Relinquished by:	Date/Time: 12/3/13 1700	Company:	Received by: Jill Clark	Date/Time: 12.4.13 0920 Company: TA SR

Custody Seals Intact: Δ Yes Δ No; Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.9 C / 5.1 C

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #:
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) HGRM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - 01M 4.2 VOCs	8260C - 01M 4.2 VOCs	8260C - 01M 4.2 VOCs	8260C - 01M 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	P	J	F	N	N	X	
P-B-4_SS	12-3-13	0-0.5	Pond Areas	1130	C/G	S				1				1	1							3	120, 60
P-B-4_SUB	12-3-13	10-15	Pond Areas	1230	C/G	S				1				1								2	↓
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 12/3/13 1500	Company: GEI	Received by:	Date/Time: 12/3/13 1500 Company: GEI
Relinquished by:	Date/Time: 12/3/13 1300	Company: GEI	Received by:	Date/Time: 12/3/13 1300 Company: T
Relinquished by:	Date/Time: 12/3/13 1600	Company: T	Received by:	Date/Time: 12-4-13 0920 Company: TA SR

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.9 C / 5.1 C

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51811-23157.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96723
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	A01R_U - (MOD) Local Method (Radionuclides)	A01R_Th - Standard Target List (Radionuclides)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	904.0 - Standard Target List (Radionuclides)	903.0 - Standard Target List (Radionuclides)	300 - (MOD) Local Method (Anions)	6010C, 6020A, 7470A (Metals)	900.0 - Standard Target List (Radionuclides)	8260C - OLM 4.2 (VOCs)	1668C (PCB Congeners)	8082A (PCB Aroclors)	8270D SVOCs (Project list to include PAHs)	8290 (Dioxins)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D	D	D	N	D	D	A	N	N	N	N		
12/3/13 RINSATE	12/3/13	1230	G	Water	N	N	1	1	1	1	1	1	1	1	3	2	1	2	2	~~16~~ 12	2xLg, 5xLp, 500p, 250p Nitric 250p amprs

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☒ Archive **Until GEI releases for disposal.**

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
J. Shelkey [signature]	12/3/13 1330	GEI	[signature]	12/3/13 1330	TA
[signature]	12/3/13 1630	TA	Jill Clark	12.4.13 0920	TA SR

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.9C/5.1C

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96723-1

Login Number: 96723

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

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

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96723-1

Login Number: 96723
List Number: 1
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento
List Creation: 12/09/13 05:06 PM

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.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96723-1

Login Number: 96723
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 12/04/13 01:34 PM

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.	N/A	
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	4.9, 5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96723-1

Login Number: 96723
List Number: 2
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 12/04/13 01:36 PM

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.	N/A	
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	4.9, 5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	01-31-15
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	06-30-14
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	04-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	03-31-14
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14 *
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia DEP	State Program	3	94	06-30-14
West Virginia DHHR	State Program	3	9950C	12-31-13 *
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

Laboratory: TestAmerica Sacramento

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

* Expired certification is currently pending renewal and is considered valid.

Laboratory: TestAmerica Sacramento (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	03-31-14
Alaska (UST)	State Program	10	UST-055	02-28-14 *
Arizona	State Program	9	AZ0708	08-11-14
Arkansas DEQ	State Program	6	88-0691	06-17-14
California	State Program	9	2897	01-31-15
Colorado	State Program	8	N/A	08-31-14
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-14
Guam	State Program	9	N/A	08-31-14
Hawaii	State Program	9	N/A	01-29-15
Illinois	NELAP	5	200060	03-17-15
Kansas	NELAP	7	E-10375	10-31-14
Louisiana	NELAP	6	30612	06-30-14
Michigan	State Program	5	9947	02-28-14 *
Nebraska	State Program	7	NE-OS-22-13	02-28-14 *
Nevada	State Program	9	CA44	07-31-14
New Jersey	NELAP	2	CA005	06-30-14
New York	NELAP	2	11666	03-31-14
Northern Mariana Islands	State Program	9	MP0007	02-28-14 *
Oregon	NELAP	10	CA200005	01-29-15
Pennsylvania	NELAP	3	68-01272	03-31-14
South Carolina	State Program	4	87014	06-30-14
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-14
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	02-28-15
Washington	State Program	10	C581	05-05-14
Wyoming	State Program	8	8TMS-Q	02-28-14 *

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-14
California	NELAP	9	09266CA	03-31-14
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-14
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14
Kentucky (DW)	State Program	4	90125	12-31-14
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	LA140007	12-31-14
Maryland	State Program	3	310	09-30-14
Missouri	State Program	7	780	06-30-14
Nevada	State Program	9	MO000542013-1	07-31-14
New Jersey	NELAP	2	MO002	06-30-14
New Mexico	State Program	6		06-30-10 *
New York	NELAP	2	11616	04-01-14

* Expired certification is currently pending renewal and is considered valid.

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
North Dakota	State Program	8	R207	06-30-14
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	2013-049	08-31-14
Pennsylvania	NELAP	3	68-00540	02-28-14
South Carolina	State Program	4	85002001	06-30-14
Texas	NELAP	6	T104704193-13-6	07-31-14
USDA	Federal		P330-07-00122	01-09-17
USEPA Reg V SDWA	Federal	1	WG-15J	08-30-14
Utah	NELAP	8	MO000542013-5	07-31-14
Virginia	NELAP	3	2236	06-14-14
Washington	State Program	10	C592	08-30-14
West Virginia DEP	State Program	3	381	02-28-14 *

* Expired certification is currently pending renewal and is considered valid.

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-96723-6	DD-B-4_SS	101
680-96723-6 DU	DD-B-4_SS	96.8
680-96723-7	DD-B-4_SUB	102
680-96723-8	DD-B-9_SS	104
680-96723-9	DD-B-9_SUB	104
LCS 160-90392/2-A	Lab Control Sample	109
MB 160-90392/1-A	Method Blank	107

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Total Alpha-Emitting Radium Isotopes by GFPC

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-96723-14	RINSATE	102
LCS 160-89951/2-A	Lab Control Sample	102
MB 160-89951/1-A	Method Blank	104

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-96723-6	DD-B-4_SS	101	87.5
680-96723-6 DU	DD-B-4_SS	96.8	86.4
680-96723-7	DD-B-4_SUB	102	86.0
680-96723-8	DD-B-9_SS	104	87.1
680-96723-9	DD-B-9_SUB	104	90.1
LCS 160-90394/2-A	Lab Control Sample	109	86.4
MB 160-90394/1-A	Method Blank	107	83.7

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-96723-14	RINSATE	102	81.5
LCS 160-89952/2-A	Lab Control Sample	102	80.0

Method: 904.0 - Radium-228 (GFPC) (Continued)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
MB 160-89952/1-A	Method Blank	104	88.6

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		Th-229
Lab Sample ID	Client Sample ID	(30-110)
680-96723-6	DD-B-4_SS	83.2
680-96723-6 DU	DD-B-4_SS	76.1
680-96723-7	DD-B-4_SUB	79.4
680-96723-8	DD-B-9_SS	80.0
680-96723-9	DD-B-9_SUB	76.8
LCS 160-100377/2-A	Lab Control Sample	82.3
MB 160-100377/1-A	Method Blank	94.3

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		Th-229
Lab Sample ID	Client Sample ID	(30-110)
680-96723-14	RINSATE	75.3
LCS 160-100386/2-A	Lab Control Sample	76.3
LCSD 160-100386/3-A	Lab Control Sample Dup	77.7
MB 160-100386/1-A	Method Blank	83.1

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		U-232
Lab Sample ID	Client Sample ID	(30-110)
680-96723-6	DD-B-4_SS	88.2
680-96723-6 DU	DD-B-4_SS	94.8
680-96723-7	DD-B-4_SUB	84.0
680-96723-8	DD-B-9_SS	82.2
680-96723-9	DD-B-9_SUB	88.4
LCS 160-96698/2-A	Lab Control Sample	91.8
MB 160-96698/1-A	Method Blank	87.5

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Tracer/Carrier Legend

U-232 = Uranium-232

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**U-232 (30-110)**							
680-96723-14	RINSATE	86.7							
LCS 160-97007/2-A	Lab Control Sample	70.2							
LCSD 160-97007/3-A	Lab Control Sample Dup	10.8 X							
MB 160-97007/1-A	Method Blank	85.8							

Tracer/Carrier Legend

U-232 = Uranium-232

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: P-B-7_SS — Lab Sample ID: 680-96723-1

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		2.7	TEQ
Total TEQ					pg/g		2.7	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**600**	**G**	96	96	pg/g	0.0001	**0.060**	1668C
PCB-81	93	U G	93	93	pg/g	0.0003	0.00	1668C
PCB-105	**24000**	**G**	480	480	pg/g	0.00003	**0.72**	1668C
PCB-114	**710**	**G**	470	470	pg/g	0.00003	**0.021**	1668C
PCB-118	**50000**	**E B G**	440	440	pg/g	0.00003	**1.5**	1668C
PCB-123	**490**	**q G**	450	450	pg/g	0.00003	**0.015**	1668C
PCB-126	550	U G	550	550	pg/g	0.1	0.00	1668C
PCB-156/157	**9100**		82	60	pg/g	0.00003	**0.27**	1668C
PCB-167	**2400**	**G**	43	43	pg/g	0.00003	**0.072**	1668C
PCB-169	53	U G	53	53	pg/g	0.03	0.00	1668C
PCB-189	**250**		41	10	pg/g	0.00003	**0.0075**	1668C

Client Sample ID: P-B-7_SS DUP — Lab Sample ID: 680-96723-2

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		3.9	TEQ
Total TEQ					pg/g		3.9	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77 - DL	**1300**	**G**	100	100	pg/g	0.0001	**0.13**	1668C
PCB-81 - DL	99	U G	99	99	pg/g	0.0003	0.00	1668C
PCB-105 - DL	**38000**	**G**	570	570	pg/g	0.00003	**1.1**	1668C
PCB-114 - DL	**1100**	**G**	530	530	pg/g	0.00003	**0.033**	1668C
PCB-118 - DL	**70000**	**E G B**	500	500	pg/g	0.00003	**2.1**	1668C
PCB-123 - DL	**920**	**G**	530	530	pg/g	0.00003	**0.028**	1668C
PCB-126 - DL	590	U G	590	590	pg/g	0.1	0.00	1668C
PCB-156/157 - DL	**13000**		85	83	pg/g	0.00003	**0.39**	1668C
PCB-167 - DL	**3600**	**G**	63	63	pg/g	0.00003	**0.11**	1668C
PCB-169 - DL	81	U G	81	81	pg/g	0.03	0.00	1668C
PCB-189 - DL	**390**		43	4.6	pg/g	0.00003	**0.012**	1668C

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Client Sample ID: P-B-5_SS — Lab Sample ID: 680-96723-4

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		0.72	TEQ
Total TEQ					pg/g		0.72	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**21**		4.2	1.8	pg/g	0.0001	**0.0021**	1668C
PCB-81	1.8	U	4.2	1.8	pg/g	0.0003	0.00	1668C
PCB-105	**88**		4.2	3.7	pg/g	0.00003	**0.0026**	1668C
PCB-114	3.6	U	4.2	3.6	pg/g	0.00003	0.00	1668C
PCB-118	**160**	**B**	4.2	3.4	pg/g	0.00003	**0.0048**	1668C
PCB-123	3.6	U	4.2	3.6	pg/g	0.00003	0.00	1668C
PCB-126	**7.1**		4.2	3.9	pg/g	0.1	**0.71**	1668C
PCB-156/157	**53**		8.5	1.5	pg/g	0.00003	**0.0016**	1668C
PCB-167	**19**		4.2	1.2	pg/g	0.00003	**0.00057**	1668C
PCB-169	1.4	U	4.2	1.4	pg/g	0.03	0.00	1668C
PCB-189	**3.4**	**J**	4.2	0.82	pg/g	0.00003	**0.00010**	1668C

Client Sample ID: DD-B-4_SS — Lab Sample ID: 680-96723-6

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		190	TEQ
Total PCB TEQ					pg/g		4.1	TEQ
Total TEQ					pg/g		190	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**1700**	**G**	130	130	pg/g	0.0001	**0.17**	1668C
PCB-81	140	U G	140	140	pg/g	0.0003	0.00	1668C
PCB-105	**30000**	**G**	960	960	pg/g	0.00003	**0.90**	1668C
PCB-114	990	U G	990	990	pg/g	0.00003	0.00	1668C
PCB-118	**77000**	**G E B**	900	900	pg/g	0.00003	**2.3**	1668C
PCB-123	890	U G	890	890	pg/g	0.00003	0.00	1668C
PCB-126	1100	U G	1100	1100	pg/g	0.1	0.00	1668C
PCB-156/157	**16000**	**G**	180	180	pg/g	0.00003	**0.48**	1668C
PCB-167	**5400**	**G**	140	140	pg/g	0.00003	**0.16**	1668C
PCB-169	160	U G	160	160	pg/g	0.03	0.00	1668C
PCB-189	**1400**		44	21	pg/g	0.00003	**0.042**	1668C
2,3,7,8-TCDD	**5.1**		2.2	0.067	pg/g	1	**5.1**	8290A
1,2,3,7,8-PeCDD	**12**		11	0.22	pg/g	1	**12**	8290A
1,2,3,7,8-PeCDF	**180**		11	0.51	pg/g	0.03	**5.4**	8290A
2,3,4,7,8-PeCDF	**100**	**B**	11	0.53	pg/g	0.3	**30**	8290A
1,2,3,4,7,8-HxCDD	**10**	**J B**	11	0.15	pg/g	0.1	**1.0**	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client Sample ID: DD-B-4_SS (Continued)

Lab Sample ID: 680-96723-6

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
1,2,3,6,7,8-HxCDD	19	B	11	0.10	pg/g	0.1	1.9	8290A
1,2,3,7,8,9-HxCDD	20	B	11	0.11	pg/g	0.1	2.0	8290A
1,2,3,4,7,8-HxCDF	560	B	11	0.50	pg/g	0.1	56	8290A
1,2,3,6,7,8-HxCDF	180	B	11	0.37	pg/g	0.1	18	8290A
1,2,3,7,8,9-HxCDF	26	B	11	0.48	pg/g	0.1	2.6	8290A
2,3,4,6,7,8-HxCDF	78	B	11	0.43	pg/g	0.1	7.8	8290A
1,2,3,4,6,7,8-HpCDD	110	B	11	0.44	pg/g	0.01	1.1	8290A
1,2,3,4,6,7,8-HpCDF	1100	B	11	2.3	pg/g	0.01	11	8290A
1,2,3,4,7,8,9-HpCDF	390	B	11	2.7	pg/g	0.01	3.9	8290A
OCDD	660	B	22	0.38	pg/g	0.0003	0.20	8290A
OCDF - DL	37000	B	670	36	pg/g	0.0003	11	8290A
2,3,7,8-TCDF - RA	210	B	2.2	2.1	pg/g	0.1	21	8290A

Client Sample ID: DD-B-9_SS

Lab Sample ID: 680-96723-8

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		20	TEQ
Total PCB TEQ					pg/g		0.21	TEQ
Total TEQ					pg/g		20	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	150		42	21	pg/g	0.0001	0.015	1668C
PCB-81	19	U	42	19	pg/g	0.0003	0.00	1668C
PCB-105	1600	G	64	64	pg/g	0.00003	0.048	1668C
PCB-114	61	U G	61	61	pg/g	0.00003	0.00	1668C
PCB-118	3700	G B	56	56	pg/g	0.00003	0.11	1668C
PCB-123	59	U G	59	59	pg/g	0.00003	0.00	1668C
PCB-126	71	U G	71	71	pg/g	0.1	0.00	1668C
PCB-156/157	910		84	17	pg/g	0.00003	0.027	1668C
PCB-167	320		42	14	pg/g	0.00003	0.0096	1668C
PCB-169	14	U	42	14	pg/g	0.03	0.00	1668C
PCB-189	82		42	7.5	pg/g	0.00003	0.0025	1668C
2,3,7,8-TCDD	0.69	J	2.1	0.045	pg/g	1	0.69	8290A
1,2,3,7,8-PeCDD	1.2	J	10	0.10	pg/g	1	1.2	8290A
1,2,3,7,8-PeCDF	16		10	0.14	pg/g	0.03	0.48	8290A
2,3,4,7,8-PeCDF	9.7	J B	10	0.15	pg/g	0.3	2.9	8290A
1,2,3,4,7,8-HxCDD	0.95	J q B	10	0.085	pg/g	0.1	0.095	8290A
1,2,3,6,7,8-HxCDD	2.3	J B	10	0.060	pg/g	0.1	0.23	8290A
1,2,3,7,8,9-HxCDD	2.6	J B	10	0.062	pg/g	0.1	0.26	8290A
1,2,3,4,7,8-HxCDF	50	B	10	0.16	pg/g	0.1	5.0	8290A
1,2,3,6,7,8-HxCDF	21	B	10	0.12	pg/g	0.1	2.1	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client Sample ID: DD-B-9_SS (Continued)

Lab Sample ID: 680-96723-8

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
1,2,3,7,8,9-HxCDF	2.7	J B	10	0.15	pg/g	0.1	0.27	8290A
2,3,4,6,7,8-HxCDF	8.3	J B	10	0.14	pg/g	0.1	0.83	8290A
1,2,3,4,6,7,8-HpCDD	19	B	10	0.17	pg/g	0.01	0.19	8290A
1,2,3,4,6,7,8-HpCDF	160	B	10	0.53	pg/g	0.01	1.6	8290A
1,2,3,4,7,8,9-HpCDF	40	B	10	0.62	pg/g	0.01	0.40	8290A
OCDD	160	B	21	0.23	pg/g	0.0003	0.048	8290A
OCDF	6600	B	21	1.0	pg/g	0.0003	2.0	8290A
2,3,7,8-TCDF - RA	18	B	2.1	0.58	pg/g	0.1	1.8	8290A

Client Sample ID: DD-B-6_SS

Lab Sample ID: 680-96723-10

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		0.054	TEQ
Total TEQ					pg/g		0.054	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77 - DL	61	q	42	18	pg/g	0.0001	0.0061	1668C
PCB-81 - DL	20	U	42	20	pg/g	0.0003	0.00	1668C
PCB-105 - DL	490		42	20	pg/g	0.00003	0.015	1668C
PCB-114 - DL	19	U	42	19	pg/g	0.00003	0.00	1668C
PCB-118 - DL	820	B	42	19	pg/g	0.00003	0.025	1668C
PCB-123 - DL	20	U	42	20	pg/g	0.00003	0.00	1668C
PCB-126 - DL	24	U	42	24	pg/g	0.1	0.00	1668C
PCB-156/157 - DL	200		85	14	pg/g	0.00003	0.0060	1668C
PCB-167 - DL	61	q	42	10	pg/g	0.00003	0.0018	1668C
PCB-169 - DL	13	U	42	13	pg/g	0.03	0.00	1668C
PCB-189 - DL	13	U	42	13	pg/g	0.00003	0.00	1668C

Client Sample ID: P-B-4_SS

Lab Sample ID: 680-96723-12

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		0.074	TEQ
Total TEQ					pg/g		0.074	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77 - DL	75		44	24	pg/g	0.0001	0.0075	1668C
PCB-81 - DL	20	U	44	20	pg/g	0.0003	0.00	1668C
PCB-105 - DL	650		44	27	pg/g	0.00003	0.020	1668C

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client Sample ID: P-B-4_SS (Continued)

Lab Sample ID: 680-96723-12

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-114 - DL	**37**	**J**	44	26	pg/g	0.00003	**0.0011**	1668C
PCB-118 - DL	**1100**	**B**	44	22	pg/g	0.00003	**0.033**	1668C
PCB-123 - DL	**24**	**J**	44	23	pg/g	0.00003	**0.00072**	1668C
PCB-126 - DL	31	U	44	31	pg/g	0.1	0.00	1668C
PCB-156/157 - DL	**260**		88	14	pg/g	0.00003	**0.0078**	1668C
PCB-167 - DL	**87**		44	10	pg/g	0.00003	**0.0026**	1668C
PCB-169 - DL	13	U	44	13	pg/g	0.03	0.00	1668C
PCB-189 - DL	**27**	**J q**	44	11	pg/g	0.00003	**0.00081**	1668C

Client Sample ID: RINSATE

Lab Sample ID: 680-96723-14

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	3.9	U	20	3.9	pg/L	0.0001	0.00	1668C
PCB-81	3.8	U	20	3.8	pg/L	0.0003	0.00	1668C
PCB-105	3.5	U	20	3.5	pg/L	0.00003	0.00	1668C
PCB-114	3.2	U	20	3.2	pg/L	0.00003	0.00	1668C
PCB-118	**6.0**	**J B**	20	3.1	pg/L	0.00003	**0.00018**	1668C
PCB-123	3.2	U	20	3.2	pg/L	0.00003	0.00	1668C
PCB-126	3.7	U	20	3.7	pg/L	0.1	0.00	1668C
PCB-156/157	3.8	U	39	3.8	pg/L	0.00003	0.00	1668C
PCB-167	3.1	U	20	3.1	pg/L	0.00003	0.00	1668C
PCB-169	3.6	U	20	3.6	pg/L	0.03	0.00	1668C
PCB-189	4.2	U	20	4.2	pg/L	0.00003	0.00	1668C

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-202L	PCB-3L	PCB-118L	PCB-126L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)
680-96723-1	P-B-7_SS	41	55	84	86	80	46	85	92
680-96723-1 MS	P-B-7_SS	28	35	49	45	44	34	53	54
680-96723-1 MSD	P-B-7_SS	33	45	79	82	77	39	80	91
680-96723-2 - DL	P-B-7_SS DUP	24	24	24	25	24	28	25	28
680-96723-4	P-B-5_SS	24	34	44	44	39	30	45	53
680-96723-6	DD-B-4_SS	52	74	91	88	78	59	91	102
680-96723-8	DD-B-9_SS	49	65	81	79	73	54	83	85
680-96723-10 - DL	DD-B-6_SS	36	44	60	60	67	41	59	63
680-96723-12 - DL	P-B-4_SS	35	39	47	44	56	39	47	46
MB 320-32277/1-A	Method Blank	44	56	72	71	67	45	73	80
MB 320-32864/1-A	Method Blank	38	55	75	73	73	43	74	80

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-206L	PCB-169L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(5-145)	(5-145)	(10-145)	(5-145)	(10-145)	(10-145)
680-96723-1	P-B-7_SS	99	100	70	48	73	52	91	96
680-96723-1 MS	P-B-7_SS	51	63	35	26	37	26	57	53 q
680-96723-1 MSD	P-B-7_SS	87	96	64	36	64	46	86	91
680-96723-2 - DL	P-B-7_SS DUP	26	27	22	21	22	20	26	25
680-96723-4	P-B-5_SS	60	74	40	26	28	23	65	61
680-96723-6	DD-B-4_SS	91	103	91	58	72	59	95	88
680-96723-8	DD-B-9_SS	89	127	76	61	68	63	95	87
680-96723-10 - DL	DD-B-6_SS	82	73	41	39	56	38	73	74
680-96723-12 - DL	P-B-4_SS	67	55	33	30	48	30	52	57
MB 320-32277/1-A	Method Blank	87	97	59	56	50	44	85	82
MB 320-32864/1-A	Method Blank	91	90	65	46	65	46	83	82

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)	(10-145)
680-96723-1	P-B-7_SS	94	90	88	90	37	51	85	88
680-96723-1 MS	P-B-7_SS	59	49	50	48	30	28	50	55
680-96723-1 MSD	P-B-7_SS	93	78	84	84	31	42	90	84
680-96723-2 - DL	P-B-7_SS DUP	26	25	25	27	27	16	26	26
680-96723-4	P-B-5_SS	55	58	46	55	25	26	47	48
680-96723-6	DD-B-4_SS	97	79	94	92	49	60	89	90
680-96723-8	DD-B-9_SS	94	79	82	85	46	58	76	75
680-96723-10 - DL	DD-B-6_SS	90	69	61	78	35	45	53	53
680-96723-12 - DL	P-B-4_SS	69	51	45	63	35	33	47	45
MB 320-32277/1-A	Method Blank	85	76	73	84	40	52	72	71
MB 320-32864/1-A	Method Blank	88	83	75	87	35	50	75	75

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)
680-96723-1	P-B-7_SS	97	64
680-96723-1 MS	P-B-7_SS	51	36
680-96723-1 MSD	P-B-7_SS	89	62
680-96723-2 - DL	P-B-7_SS DUP	26	17
680-96723-4	P-B-5_SS	60	31
680-96723-6	DD-B-4_SS	90	69

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-205L (10-145)	PCB-155L (10-145)						
680-96723-8	DD-B-9_SS	86	69						
680-96723-10 - DL	DD-B-6_SS	84	49						
680-96723-12 - DL	P-B-4_SS	62	40						
MB 320-32277/1-A	Method Blank	86	51						
MB 320-32864/1-A	Method Blank	90	58						

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-202L = PCB-202L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-206L = PCB-206L
PCB-169L = PCB-169L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-4L (15-145)	PCB-15L (15-145)	PCB-123L (40-145)	PCB-114L (40-145)	PCB-3L (15-145)	PCB-118L (40-145)	PCB-126L (40-145)	PCB-202L (40-145)
LCS 320-32277/2-A	Lab Control Sample	39	51	82	83	38	84	90	67
LCS 320-32864/2-A	Lab Control Sample	32	39	45	45	36	45	52	46

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-169L (40-145)	PCB-206L (40-145)	PCB-37L (15-145)	PCB-19L (15-145)	PCB-188L (40-145)	PCB-54L (15-145)	CB-156L/15 (40-145)	PCB-167L (40-145)
LCS 320-32277/2-A	Lab Control Sample	86	85	54	45	55	56	77	76
LCS 320-32864/2-A	Lab Control Sample	61	63	40	34	39 *	32	55	52

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-32277/2-A	Lab Control Sample	83	74	85	79	30	51	70	70
LCS 320-32864/2-A	Lab Control Sample	63	56	47	58	31	33 *	42	45

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)
LCS 320-32277/2-A	Lab Control Sample	82	50
LCS 320-32864/2-A	Lab Control Sample	62	35 *

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-1L	PCB-3L	PCB-4L	PCB-15L	PCB-19L	PCB-37L	PCB-54L	PCB-77L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(10-145)
680-96723-14	RINSATE	44	52	47	63	54	68	41 q	72
MB 320-33524/1-A	Method Blank	54	62	61	83	73	77	61	99

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-81L	PCB-104L	PCB-105L	PCB-114L	PCB-118L	PCB-123L	PCB-126L	PCB-155L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)
680-96723-14	RINSATE	71	38	65	64	65	63	70	34
MB 320-33524/1-A	Method Blank	98	52	84	80	80	78	90	42

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		CB-156L/15	PCB-167L	PCB-169L	PCB-188L	PCB-189L	PCB-202L	PCB-205L	PCB-206L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)
680-96723-14	RINSATE	69	65	74	39	66	50	75	78
MB 320-33524/1-A	Method Blank	89	83	96	41	78	51	88	86

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-208L	PCB-209L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)
680-96723-14	RINSATE	66	77
MB 320-33524/1-A	Method Blank	71	81

Surrogate Legend

PCB-1L = PCB-1L
PCB-3L = PCB-3L
PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-19L = PCB-19L
PCB-37L = PCB-37L
PCB-54L = PCB-54L
PCB-77L = PCB-77L
PCB-81L = PCB-81L
PCB-104L = PCB-104L
PCB-105L = PCB-105L
PCB-114L = PCB-114L
PCB-118L = PCB-118L
PCB-123L = PCB-123L
PCB-126L = PCB-126L
PCB-155L = PCB-155L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-169L = PCB-169L
PCB-188L = PCB-188L
PCB-189L = PCB-189L
PCB-202L = PCB-202L
PCB-205L = PCB-205L
PCB-206L = PCB-206L
PCB-208L = PCB-208L
PCB-209L = PCB-209L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-33524/2-A	Lab Control Sample	36	55	68	67	37	67	73	75

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-33524/2-A	Lab Control Sample	79	85	52	51	64	41	77	75

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-209L (40-145)	PCB-189L (40-145)	PCB-105L (40-145)	PCB-208L (40-145)	PCB-1L (15-145)	PCB-104L (40-145)	PCB-81L (40-145)	PCB-77L (40-145)
LCS 320-33524/2-A	Lab Control Sample	83	76	70	83	24	43	66	67

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	PCB-205L (40-145)	PCB-155L (40-145)
LCS 320-33524/2-A	Lab Control Sample	84	50

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDD2 (40-135)	TCDD (40-135)	PeCDD (40-135)	HpCDF1 (40-135)	PeCDF1 (40-135)	TCDF (40-135)	HpCDD (40-135)	OCDD (40-135)
680-96723-6	DD-B-4_SS	90	94	96	98	92	87	104	111
680-96723-6 - RA	DD-B-4_SS						100		
680-96723-6 - DL	DD-B-4_SS								74
680-96723-8	DD-B-9_SS	90	90	88	98	88	84	102	106
680-96723-8 - RA	DD-B-9_SS						96		
LCS 320-32264/2-A	Lab Control Sample	95	98	95	94	95	91	98	95
MB 320-32264/1-A	Method Blank	94	96	95	95	94	90	104	99

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96723-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDF1 (40-135)							
680-96723-6	DD-B-4_SS	85							
680-96723-6 - RA	DD-B-4_SS								
680-96723-6 - DL	DD-B-4_SS								
680-96723-8	DD-B-9_SS	85							
680-96723-8 - RA	DD-B-9_SS								
LCS 320-32264/2-A	Lab Control Sample	89							
MB 320-32264/1-A	Method Blank	87							

Surrogate Legend

HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
TCDF = 13C-2,3,7,8-TCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Savannah
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Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-96831-1
Client Project/Site: TIMET

For:
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Attn: Mr. Marc Chartier

Kathryn Smith

Authorized for release by:
2/9/2014 11:39:04 AM

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LINKS

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

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

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

Job ID: 680-96831-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: GEI Consultants, Inc.

Project: TIMET

Report Number: 680-96831-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 12/06/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 3.7º C and 4.2º C.

Sample NE-B-5_SUB (680-96831-2) was received on 12/7/13 at 10:10am.

TestAmerica did not receive proper containers for 8260 for sample RINSATE (680-96831-11), therefore the analysis was not performed.

SEMIVOLATILE ORGANIC COMPOUNDS (SOLID)

Sample DD-B-8_SS (680-96831-6) was analyzed for Semivolatile Organic Compounds (Solid) in accordance with EPA SW846 Method 8270D. The samples were prepared and analyzed on 12/18/2013.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (AQUEOUS)

Sample RINSATE (680-96831-11) was analyzed for Semivolatile Organic Compounds (Aqueous) in accordance with EPA SW846 Method 8270D. The samples were prepared and analyzed on 12/11/2013.

Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for RINSATE (680-96831-11).

Benzo[a]pyrene and Fluoranthene failed the recovery criteria high for LCS 160-91108/2-A. Benzo[a]pyrene, Fluoranthene, Fluorene and Phenanthrene failed the recovery criteria high for LCSD 160-91108/3-A.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Samples NE-B-5_SS (680-96831-1), NE-B-4_SS (680-96831-3), DD-B-8_SS (680-96831-6) and DD-B-10_SS (680-96831-8) were analyzed for chlorinated biphenyl congeners in accordance with epa method 1668C. The samples were prepared on 01/02/2014 and 01/09/2014 and analyzed on 02/05/2014 and 02/06/2014.

Several analytes were detected in method blank MB 320-33078/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 320-33530/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Job ID: 680-96831-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

The concentration of one or more analytes associated with the following samples exceeded the instrument calibration range: DD-B-10_SS (680-96831-8), NE-B-4_SS (680-96831-3), NE-B-5_SS (680-96831-1). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Sample DD-B-8_SS (680-96831-6)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Sample RINSATE (680-96831-11) was analyzed for chlorinated biphenyl congeners in accordance with EPA method 1668C. The samples were prepared on 12/17/2013 and analyzed on 01/31/2014.

Several analytes were detected in method blank MB 320-32034/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

DIOXINS AND FURANS

Sample DD-B-8_SS (680-96831-6) was analyzed for dioxins and furans in accordance with EPA Method 8290A. The samples were prepared on 01/02/2014 and analyzed on 01/09/2014 and 01/16/2014.

1,2,3,4,6,7,8-HpCDF and OCDD were detected in method blank MB 320-33065/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the dioxins and furans analysis.

All other quality control parameters were within the acceptance limits.

DIOXINS AND FURANS

Sample RINSATE (680-96831-11) was analyzed for dioxins and furans in accordance with EPA SW-846 8290A. The samples were prepared on 12/16/2013 and analyzed on 01/10/2014.

Several analytes were detected in method blank MB 320-31992/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the dioxins and furans analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Samples NE-B-5_SS (680-96831-1), NE-B-5_SUB (680-96831-2), NE-B-4_SS (680-96831-3), NE-B-4_SUB (680-96831-4), NE-B-4_SUB DUP (680-96831-5), DD-B-8_SS (680-96831-6), DD-B-8_SUB (680-96831-7), DD-B-10_SS (680-96831-8), DD-B-10_SUB (680-96831-9) and DD-B-10_SUB DUP (680-96831-10) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 01/16/2014 and 12/13/2013 and analyzed on 01/10/2014, 01/14/2014 and 01/17/2014.

Potassium and Antimony failed the recovery criteria low for the MS of sample NE-B-4_SUBMS (680-96831-4) in batch 160-99784.

Job ID: 680-96831-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Calcium, Manganese and Titanium failed the recovery criteria high.

Iron and Antimony failed the recovery criteria low for the MSD of sample NE-B-4_SUBMSD (680-96831-4) in batch 160-99784. Aluminum, Calcium and Titanium failed the recovery criteria high.

Several analytes failed the recovery criteria low for the MS of sample DD-B-10_SUBMS (680-96831-9) in batch 160-99784. Barium and Titanium failed the recovery criteria high.

For the MSD of sample DD-B-10_SUBMSD (680-96831-9) in batch 160-99784, Several analytes failed the recovery criteria low. Calcium and Titanium failed the recovery criteria high. Also, Calcium exceeded the RPD limit.

The following samples were reextracted for silver, antimony, and titanium due to a mis-spike in the original batch: DD-B-10_SS (680-96831-8), DD-B-10_SUB (680-96831-9), DD-B-10_SUB (680-96831-9 MS), DD-B-10_SUB (680-96831-9 MSD), DD-B-10_SUB DUP (680-96831-10), DD-B-8_SS (680-96831-6), DD-B-8_SUB (680-96831-7), NE-B-4_SS (680-96831-3), NE-B-4_SUB (680-96831-4), NE-B-4_SUB (680-96831-4 MS), NE-B-4_SUB (680-96831-4 MSD), NE-B-4_SUB DUP (680-96831-5), NE-B-5_SS (680-96831-1), NE-B-5_SUB (680-96831-2)

Samples NE-B-5_SS (680-96831-1)[10X], NE-B-5_SS (680-96831-1)[5X], NE-B-5_SUB (680-96831-2)[10X], NE-B-5_SUB (680-96831-2)[5X], NE-B-4_SS (680-96831-3)[10X], NE-B-4_SS (680-96831-3)[5X], NE-B-4_SUB (680-96831-4)[10X], NE-B-4_SUB (680-96831-4)[5X], NE-B-4_SUB DUP (680-96831-5)[10X], NE-B-4_SUB DUP (680-96831-5)[5X], DD-B-8_SS (680-96831-6)[10X], DD-B-8_SS (680-96831-6)[5X], DD-B-8_SUB (680-96831-7)[10X], DD-B-8_SUB (680-96831-7)[5X], DD-B-10_SS (680-96831-8)[10X], DD-B-10_SS (680-96831-8)[5X], DD-B-10_SUB (680-96831-9)[10X], DD-B-10_SUB (680-96831-9)[5X], DD-B-10_SUB DUP (680-96831-10)[10X] and DD-B-10_SUB DUP (680-96831-10)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Sample RINSATE (680-96831-11) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 01/03/2014 and analyzed on 01/08/2014.

Zinc was detected in method blank MB 160-96025/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples NE-B-5_SS (680-96831-1), NE-B-5_SUB (680-96831-2), NE-B-4_SS (680-96831-3), NE-B-4_SUB (680-96831-4), NE-B-4_SUB DUP (680-96831-5), DD-B-8_SS (680-96831-6), DD-B-8_SUB (680-96831-7), DD-B-10_SS (680-96831-8), DD-B-10_SUB (680-96831-9) and DD-B-10_SUB DUP (680-96831-10) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 01/03/2014, 01/20/2014 and 12/13/2013 and analyzed on 01/11/2014, 01/20/2014 and 12/31/2013.

Niobium failed the recovery criteria low for the MS/MSD of sample NE-B-4_SUBMS/MSD (680-96831-4) in batch 160-97827.

Niobium failed the recovery criteria low for the MS/MSD of sample DD-B-10_SUBMS/MSD (680-96831-9) in batch 160-100300.

The samples were reextracted for Niobium due to the LCS not being spiked: DD-B-10_SS (680-96831-8), DD-B-10_SUB (680-96831-9), DD-B-10_SUB DUP (680-96831-10), DD-B-8_SS (680-96831-6), DD-B-8_SUB (680-96831-7), NE-B-4_SS (680-96831-3), NE-B-4_SUB (680-96831-4), NE-B-4_SUB (680-96831-4 MS), NE-B-4_SUB (680-96831-4 MSD), NE-B-4_SUB DUP (680-96831-5), NE-B-5_SUB (680-96831-2), DD-B-10_SUB (680-96831-9), DD-B-10_SUB (680-96831-9 MS), DD-B-10_SUB (680-96831-9 MSD).

Job ID: 680-96831-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Samples NE-B-5_SS (680-96831-1)[10X], NE-B-5_SUB (680-96831-2)[10X], NE-B-4_SS (680-96831-3)[10X], NE-B-4_SUB (680-96831-4)[10X], NE-B-4_SUB DUP (680-96831-5)[10X], DD-B-8_SS (680-96831-6)[10X], DD-B-8_SUB (680-96831-7)[10X], DD-B-10_SS (680-96831-8)[10X], DD-B-10_SUB (680-96831-9)[10X] and DD-B-10_SUB DUP (680-96831-10)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Sample RINSATE (680-96831-11) was analyzed for Metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 01/03/2014 and analyzed on 01/09/2014.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample RINSATE (680-96831-11) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/10/2013 and analyzed on 12/11/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples NE-B-5_SS (680-96831-1), NE-B-5_SUB (680-96831-2), NE-B-4_SS (680-96831-3), NE-B-4_SUB (680-96831-4), NE-B-4_SUB DUP (680-96831-5), DD-B-8_SS (680-96831-6), DD-B-8_SUB (680-96831-7), DD-B-10_SS (680-96831-8), DD-B-10_SUB (680-96831-9) and DD-B-10_SUB DUP (680-96831-10) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 12/09/2013 and 12/11/2013 and analyzed on 12/11/2013 and 12/15/2013.

Mercury was detected in method blank MB 160-91133/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

ANIONS BY IC

Samples NE-B-5_SS (680-96831-1), NE-B-5_SUB (680-96831-2), NE-B-4_SS (680-96831-3), NE-B-4_SUB (680-96831-4), NE-B-4_SUB DUP (680-96831-5), DD-B-8_SS (680-96831-6), DD-B-8_SUB (680-96831-7), DD-B-10_SS (680-96831-8), DD-B-10_SUB (680-96831-9) and DD-B-10_SUB DUP (680-96831-10) were analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were leached on 01/08/2014 and analyzed on 01/10/2014.

Chloride and Sulfate failed the recovery criteria high for the MS of sample NE-B-4_SUBMS (680-96831-4) in batch 160-97845.

Sulfate failed the recovery criteria high for the MSD of sample NE-B-4_SUBMSD (680-96831-4) in batch 160-97845.

Sulfate failed the recovery criteria low for the MSD of sample DD-B-10_SUBMSD (680-96831-9) in batch 160-97845.

These samples were prepped outside the 28 day hold: DD-B-10_SS (680-96831-8), DD-B-10_SUB (680-96831-9), DD-B-10_SUB (680-96831-9 MS), DD-B-10_SUB (680-96831-9 MSD), DD-B-10_SUB DUP (680-96831-10), DD-B-8_SS (680-96831-6), DD-B-8_SUB (680-96831-7), NE-B-4_SS (680-96831-3), NE-B-4_SUB (680-96831-4), NE-B-4_SUB (680-96831-4 MS), NE-B-4_SUB (680-96831-4 MSD), NE-B-4_SUB DUP (680-96831-5), NE-B-5_SS (680-96831-1), NE-B-5_SUB (680-96831-2)

Job ID: 680-96831-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Samples NE-B-5_SS (680-96831-1)[100X], NE-B-5_SS (680-96831-1)[20X], NE-B-5_SUB (680-96831-2)[20X], NE-B-4_SS (680-96831-3) [20X], NE-B-4_SS (680-96831-3)[200X], NE-B-4_SUB (680-96831-4)[20X], NE-B-4_SUB DUP (680-96831-5)[100X], NE-B-4_SUB DUP (680-96831-5)[20X], DD-B-10_SUB (680-96831-9)[20X] and DD-B-10_SUB DUP (680-96831-10)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

ANIONS BY IC

Sample RINSATE (680-96831-11) was analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were analyzed on 12/06/2013.

No difficulties were encountered during the Anions analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/MOISTURE

Samples NE-B-5_SS (680-96831-1), NE-B-5_SUB (680-96831-2), NE-B-4_SS (680-96831-3), NE-B-4_SUB (680-96831-4), NE-B-4_SUB DUP (680-96831-5), DD-B-8_SS (680-96831-6), DD-B-8_SUB (680-96831-7), DD-B-10_SS (680-96831-8), DD-B-10_SUB (680-96831-9) and DD-B-10_SUB DUP (680-96831-10) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 12/07/2013 and 12/11/2013.

No difficulties were encountered during the % solids/moisture analysis.

All quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Samples DD-B-8_SS (680-96831-6) and DD-B-8_SUB (680-96831-7) were analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were leached on 12/11/2013, and prepared and analyzed on 12/23/2013.

Gross Beta was detected in method blank MB 160-94280/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the radioactivity analysis.

All other quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Sample RINSATE (680-96831-11) was analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were prepared on 12/31/2013 and analyzed on 01/02/2014.

No difficulties were encountered during the gross alpha & beta analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226 AND OTHER GAMMA EMITTERS (GS)

Samples DD-B-8_SS (680-96831-6) and DD-B-8_SUB (680-96831-7) were analyzed for Radium-226 and other gamma emitters (GS) in accordance with EPA Method 901.1. The samples were leached on 12/11/2013, prepared on 12/23/2013 and analyzed on 01/14/2014.

Americium-241, Bismuth-210M, Cobalt-57, Protactinium-231, Protactinium-234, Thorium-227 and Thorium-234 exceeded the RPD limit for the duplicate of sample 680-97124-1. Refer to the QC report for details.

No other difficulties were encountered during the radium-226 analysis.

Job ID: 680-96831-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All other quality control parameters were within the acceptance limits.

GAMMA EMITTERS

Sample RINSATE (680-96831-11) was analyzed for Gamma Emitters in accordance with 901.1. The samples were prepared on 12/23/2013 and analyzed on 01/11/2014.

No difficulties were encountered during the Gamma Emitters analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226 (GFPC)

Samples DD-B-8_SS (680-96831-6) and DD-B-8_SUB (680-96831-7) were analyzed for Radium-226 (GFPC) in accordance with EPA Method 903.0. The samples were leached on 12/11/2013, prepared on 12/13/2013 and analyzed on 01/08/2014.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226

Sample RINSATE (680-96831-11) was analyzed for Radium-226 in accordance with EPA Method 903.0. The samples were prepared on 12/09/2013 and analyzed on 12/31/2013.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Samples DD-B-8_SS (680-96831-6) and DD-B-8_SUB (680-96831-7) were analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were leached on 12/11/2013, prepared on 12/13/2013 and analyzed on 01/08/2014.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Sample RINSATE (680-96831-11) was analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were prepared on 12/09/2013 and analyzed on 12/30/2013.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC THORIUM

Samples DD-B-8_SS (680-96831-6) and DD-B-8_SUB (680-96831-7) were analyzed for Isotopic Thorium in accordance with A01R_Th. The samples were leached on 12/11/2013, prepared on 01/10/2014 and analyzed on 01/18/2014.

Thorium-228 and Thorium-230 were detected in method blank MB 160-97453/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the thorium analysis.

All other quality control parameters were within the acceptance limits.

Job ID: 680-96831-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

THORIUM

Sample RINSATE (680-96831-11) was analyzed for Thorium in accordance with A01R_Th. The samples were prepared on 01/22/2014 and analyzed on 01/23/2014.

No difficulties were encountered during the Thorium analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC URANIUM

Samples DD-B-8_SS (680-96831-6) and DD-B-8_SUB (680-96831-7) were analyzed for Isotopic Uranium in accordance with A01R_U. The samples were leached on 12/11/2013, prepared on 01/10/2014 and analyzed on 01/17/2014.

No difficulties were encountered during the uranium analysis.

All quality control parameters were within the acceptance limits.

URANIUM

Sample RINSATE (680-96831-11) was analyzed for Uranium in accordance with A01R_U. The samples were prepared on 01/09/2014 and analyzed on 01/16/2014.

No difficulties were encountered during the Uranium analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-96831-1	NE-B-5_SS	Solid	12/04/13 14:50	12/06/13 09:10
680-96831-2	NE-B-5_SUB	Solid	12/04/13 15:45	12/06/13 09:10
680-96831-3	NE-B-4_SS	Solid	12/04/13 13:15	12/06/13 09:10
680-96831-4	NE-B-4_SUB	Solid	12/04/13 14:20	12/06/13 09:10
680-96831-5	NE-B-4_SUB DUP	Solid	12/04/13 14:20	12/06/13 09:10
680-96831-6	DD-B-8_SS	Solid	12/04/13 11:20	12/06/13 09:10
680-96831-7	DD-B-8_SUB	Solid	12/04/13 12:30	12/06/13 09:10
680-96831-8	DD-B-10_SS	Solid	12/04/13 09:45	12/06/13 09:10
680-96831-9	DD-B-10_SUB	Solid	12/04/13 10:55	12/06/13 09:10
680-96831-10	DD-B-10_SUB DUP	Solid	12/04/13 10:55	12/06/13 09:10
680-96831-11	RINSATE	Water	12/05/13 12:30	12/06/13 09:10

Method Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
1668C	Chlorinated Biphenyl Congeners (HRGC/HRMS)	EPA	TAL SAC
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL

Protocol References:

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
q	The isomer is qualified as positively identified, but at an estimated quantity because the quantitation is based on the theoretical ratio for these samples.
*	Isotope Dilution analyte exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
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.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
F1	MS and/or MSD Recovery exceeds the 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.
U	Indicates the analyte was analyzed for but not detected.

Rad

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Carrier exceeds control limit
X	Tracer exceeds control limit

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
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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: NE-B-5_SS
Date Collected: 12/04/13 14:50
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-1
Matrix: Solid
Percent Solids: 85.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	260	B	46	2.1	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-2	59		46	2.0	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-3	140		46	1.9	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-4	350		46	28	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-5	19	U	46	19	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-6	240		46	19	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-7	33	J	46	18	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-8	1400		46	19	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-9	71		46	20	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-10	14	U	46	14	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-11	46	q	46	20	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-12/13	290		93	20	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-14	17	U	46	17	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-15	5100	E	46	18	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-16	1900		46	3.6	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-17	990	B	46	2.5	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-18/30	2300	B	93	2.1	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-19	280		46	3.8	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-20/28	17000	E B G	140	140	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-21/33	6100	B G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-22	6600	E G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-23	130	U G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-24	31	J	46	1.9	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-25	770	G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-26/29	1700	G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-27	300		46	1.9	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-31	10000	E B G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-32	1200		46	1.5	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-34	130	U G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-35	360	G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-36	140	U G	140	140	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-37	14000	E G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-38	150	U G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-39	140	U G	140	140	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-40/71	7000	B	93	9.6	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-41	1500		46	12	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-42	3700		46	11	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-43	410		46	11	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-44/47/65	11000	B	140	9.1	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-45	1100		46	11	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-46	500		46	11	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-48	2500		46	9.8	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-49/69	5500	B	93	8.0	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-50/53	900		93	9.0	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-51	280		46	9.0	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-52	10000	E B	46	10	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-54	11	J	46	0.59	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-55	280	B q G	77	77	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-56	13000	E G	83	83	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: NE-B-5_SS
Date Collected: 12/04/13 14:50
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-1
Matrix: Solid
Percent Solids: 85.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	75	U G	75	75	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-58	76	U G	76	76	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-59/62/75	**1200**		140	7.0	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-60	**7900**	**E G**	80	80	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-61/70/74/76	**28000**	**E B**	190	74	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-63	**600**	**G**	71	71	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-64	**5900**	**E B**	46	6.6	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-66	**22000**	**E B G**	84	84	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-67	**600**	**G**	70	70	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-68	67	U G	67	67	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-72	73	U G	73	73	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-73	7.5	U	46	7.5	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-77	**5000**	**E G**	83	83	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-78	85	U G	85	85	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-79	**350**	**G**	74	74	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-80	71	U G	71	71	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-81	**140**	**q G**	83	83	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-82	**3100**	**G**	230	230	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-83	**740**	**G**	250	250	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-84	**3300**	**G**	210	210	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-85/116/117	**3400**	**G**	150	150	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-86/87/97/108/119/125	**12000**		280	160	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-88/91	**1500**	**G**	170	170	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-89	190	U G	190	190	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-90/101/113	**14000**	**E B G**	160	160	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-92	**2400**	**G**	180	180	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-93/100	170	U G	170	170	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-107/124	**850**	**G**	140	140	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-94	180	U G	180	180	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-95	**7600**	**E B G**	170	170	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-96	**51**		46	0.52	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-98/102	**240**	**G**	160	160	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-99	**7500**	**E G**	180	180	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-103	160	U G	160	160	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-104	**2.6**	**J**	46	0.59	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-105	**11000**	**E G**	160	160	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-106	160	U G	160	160	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-110/115	**22000**	**E B G**	140	140	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-109	**1300**	**G**	130	130	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-111	130	U G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-112	120	U G	120	120	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-114	**460**	**G**	150	150	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-118	**17000**	**E B G**	150	150	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-120	140	U G	140	140	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-121	130	U G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-122	**330**	**G**	160	160	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-123	**330**	**G**	150	150	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-126	**390**	**G**	170	170	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-127	160	U G	160	160	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: NE-B-5_SS
Date Collected: 12/04/13 14:50
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-1
Matrix: Solid
Percent Solids: 85.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-128/166	4200		93	59	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-129/138/163	24000	B	140	61	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-130	1600	G	78	78	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-131	240	G	74	74	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-132	6600	G	70	70	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-133	220	G	69	69	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-134/143	880		93	70	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-135/151	4100		93	62	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-136	1300		46	45	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-137	1000	G	61	61	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-139/140	310		93	59	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-141	4000	G	66	66	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-142	68	U G	68	68	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-144	660	G	61	61	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-145	44	U	46	44	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-146	2700	G	66	66	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-147/149	12000		93	61	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-148	61	U G	61	61	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-150	41	U	46	41	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-152	42	U	46	42	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-153/168	15000		93	51	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-154	150	G	54	54	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-155	46	U	46	46	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-156/157	3700	G	26	26	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-158	2600	G	47	47	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-159	140		46	21	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-160	54	U G	54	54	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-161	47	U G	47	47	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-162	110		46	21	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-164	1700	G	52	52	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-165	54	U G	54	54	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-167	1300	G	20	20	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-169	25	U G	25	25	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-170	7400		46	12	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-171/173	2000		93	11	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-172	1200		46	11	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-174	6100	E	46	11	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-175	250		46	4.8	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-176	450		46	3.2	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-177	3700		46	11	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-178	920		46	5.0	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-179	1500		46	3.5	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-180/193	14000	E	93	8.9	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-181	63		46	9.0	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-182	68		46	4.5	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-183	2800		46	8.1	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-184	60		46	3.6	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-185	570		46	9.8	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-186	3.4	U	46	3.4	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1

Client Sample ID: NE-B-5_SS
Date Collected: 12/04/13 14:50
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-1
Matrix: Solid
Percent Solids: 85.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-187	5600	E	46	4.6	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-188	44	J	46	3.4	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-189	280		4.6	1.5	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-190	1400		46	8.2	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-191	310		46	8.0	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-192	8.3	U	46	8.3	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-194	2500		46	3.9	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-195	950		46	3.6	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-196	1500		46	7.6	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-197	260	q	46	5.0	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-198/199	3100		93	7.9	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-200	300		46	5.1	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-201	470		46	5.1	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-202	440		46	5.4	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-203	1800		46	7.0	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-204	65		46	5.3	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-205	190		46	3.1	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-206	1300		46	2.1	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-207	1300		46	1.4	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-208	750		46	1.5	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
PCB-209	16000	E B	46	1.2	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
Total Monochlorobiphenyls	470	B	460	2.0	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
Total Dichlorobiphenyls	7600	q	460	19	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
Total Trichlorobiphenyls	63000	B	460	91	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
Total Tetrachlorobiphenyls	130000	B q	460	43	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
Total Pentachlorobiphenyls	110000	B	460	150	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
Total Hexachlorobiphenyls	88000	B	460	53	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
Total Heptachlorobiphenyls	49000		460	7.0	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
Total Octachlorobiphenyls	11000	q	460	5.4	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
Total Nonachlorobiphenyls	3400		460	1.7	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1
Polychlorinated biphenyls, Total	480000	B q	460	38	pg/g	☼	01/09/14 14:14	02/05/14 02:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*44*		*5 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-15L	*72*		*5 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-123L	*98*		*10 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-114L	*96*		*10 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-202L	*108*		*10 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-3L	*45*		*5 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-118L	*95*		*10 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-126L	*102*		*10 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-206L	*89*		*10 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-169L	*95*		*10 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-37L	*87*		*5 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-19L	*60*		*5 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-188L	*103*		*10 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-54L	*57*		*5 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-156L/157L	*96*		*10 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-167L	*95*		*10 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*
PCB-209L	*75*		*10 - 145*	*01/09/14 14:14*	*02/05/14 02:24*	*1*

Client Sample ID: NE-B-5_SS
Date Collected: 12/04/13 14:50
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-1
Matrix: Solid
Percent Solids: 85.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-189L	99		10 - 145	01/09/14 14:14	02/05/14 02:24	1
PCB-105L	97		10 - 145	01/09/14 14:14	02/05/14 02:24	1
PCB-208L	104		10 - 145	01/09/14 14:14	02/05/14 02:24	1
PCB-1L	36		5 - 145	01/09/14 14:14	02/05/14 02:24	1
PCB-104L	69		10 - 145	01/09/14 14:14	02/05/14 02:24	1
PCB-81L	101		10 - 145	01/09/14 14:14	02/05/14 02:24	1
PCB-77L	102		10 - 145	01/09/14 14:14	02/05/14 02:24	1
PCB-205L	91		10 - 145	01/09/14 14:14	02/05/14 02:24	1
PCB-155L	77		10 - 145	01/09/14 14:14	02/05/14 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	73		5 - 145	01/09/14 14:14	02/05/14 02:24	1
PCB-111L	93		10 - 145	01/09/14 14:14	02/05/14 02:24	1
PCB-178L	90		10 - 145	01/09/14 14:14	02/05/14 02:24	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		100	70	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Barium	**210**		25	1.3	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Beryllium	0.85	U	2.5	0.85	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Cadmium	0.50	U	2.5	0.50	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Calcium	**22000**		1300	67	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Chromium	**20**		5.0	1.5	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Cobalt	**9.2**	**J**	25	4.7	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Copper	**140**		13	3.6	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Iron	**16000**		50	15	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Lead	**59**		5.0	0.86	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Magnesium	**13000**		500	42	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Manganese	**1200**		5.0	0.77	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Nickel	**28**		20	1.1	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Potassium	3400	U	5000	3400	mg/Kg	☼	12/13/13 08:34	01/14/14 19:17	10
Selenium	1.4	U	7.5	1.4	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Sodium	**1300**		1000	470	mg/Kg	☼	12/13/13 08:34	01/14/14 19:17	10
Vanadium	**43**		25	6.3	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5
Zinc	**110**		25	9.9	mg/Kg	☼	12/13/13 08:34	01/10/14 00:03	5

Method: 6010C - Metals (ICP) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.4	U	5.3	3.4	mg/Kg	☼	01/16/14 15:30	01/17/14 13:48	5
Silver	1.2	U	5.3	1.2	mg/Kg	☼	01/16/14 15:30	01/17/14 13:48	5
Titanium	**1100**		11	3.4	mg/Kg	☼	01/16/14 15:30	01/17/14 13:48	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.7**	**J**	5.0	1.3	mg/Kg	☼	12/13/13 08:38	12/31/13 04:43	10
Thallium	0.76	U	2.5	0.76	mg/Kg	☼	12/13/13 08:38	12/31/13 04:43	10
Uranium	**1.1**		0.50	0.10	mg/Kg	☼	12/13/13 08:38	12/31/13 04:43	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	**6.4**	**J**	13	2.0	mg/Kg	☼	01/03/14 09:27	01/11/14 05:48	10

Client Sample ID: NE-B-5_SS

Lab Sample ID: 680-96831-1

Date Collected: 12/04/13 14:50
Matrix: Solid
Date Received: 12/06/13 09:10
Percent Solids: 85.6

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.035	0.012	mg/Kg	☼	12/09/13 13:36	12/11/13 12:48	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	29	H	4.7	0.93	mg/Kg	☼		01/10/14 12:25	20
Sulfate	460	H	120	12	mg/Kg	☼		01/10/14 12:25	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700	H	230	23	mg/Kg	☼		01/10/14 12:40	100

Client Sample ID: NE-B-5_SUB

Lab Sample ID: 680-96831-2

Date Collected: 12/04/13 15:45
Matrix: Solid
Date Received: 12/06/13 09:10
Percent Solids: 95.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		100	70	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Barium	220		25	1.2	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Beryllium	0.84	U	2.5	0.84	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Cadmium	0.50	U	2.5	0.50	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Calcium	32000		1200	66	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Chromium	16		5.0	1.5	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Cobalt	8.6	J	25	4.7	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Copper	19		12	3.6	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Iron	16000		50	15	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Lead	11		5.0	0.86	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Magnesium	10000		500	41	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Manganese	440		5.0	0.77	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Nickel	18	J	20	1.1	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Potassium	3400	U	5000	3400	mg/Kg	☼	12/13/13 08:34	01/14/14 19:21	10
Selenium	1.4	U	7.5	1.4	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Sodium	850	J	1000	470	mg/Kg	☼	12/13/13 08:34	01/14/14 19:21	10
Vanadium	45		25	6.3	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5
Zinc	48		25	9.9	mg/Kg	☼	12/13/13 08:34	01/10/14 00:07	5

Method: 6010C - Metals (ICP) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.0	U	4.7	3.0	mg/Kg	☼	01/16/14 15:30	01/17/14 13:51	5
Silver	1.1	U	4.7	1.1	mg/Kg	☼	01/16/14 15:30	01/17/14 13:51	5
Titanium	520		9.4	3.0	mg/Kg	☼	01/16/14 15:30	01/17/14 13:51	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9	J	5.0	1.3	mg/Kg	☼	12/13/13 08:38	12/31/13 04:50	10
Thallium	0.76	U	2.5	0.76	mg/Kg	☼	12/13/13 08:38	12/31/13 04:50	10
Uranium	1.6		0.50	0.099	mg/Kg	☼	12/13/13 08:38	12/31/13 04:50	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	1.8	U	12	1.8	mg/Kg	☼	01/03/14 09:27	01/11/14 05:55	10

Client Sample ID: NE-B-5_SUB

Lab Sample ID: 680-96831-2

Date Collected: 12/04/13 15:45
Matrix: Solid
Date Received: 12/06/13 09:10
Percent Solids: 95.4

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.033	0.011	mg/Kg	☼	12/09/13 13:36	12/11/13 12:53	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.7	H	0.21	0.042	mg/Kg	☼		01/10/14 12:54	1
Sulfate	94	H	5.2	0.52	mg/Kg	☼		01/10/14 12:54	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76	H	42	4.2	mg/Kg	☼		01/10/14 13:09	20

Client Sample ID: NE-B-4_SS

Lab Sample ID: 680-96831-3

Date Collected: 12/04/13 13:15
Matrix: Solid
Date Received: 12/06/13 09:10
Percent Solids: 93.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	14	J B	42	2.3	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-2	13	J	42	1.6	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-3	33	J	42	1.3	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-4	76	q	42	25	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-5	9.4	U	42	9.4	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-6	83		42	9.4	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-7	8.8	J q	42	8.8	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-8	510		42	9.2	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-9	17	J q	42	9.9	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-10	14	U	42	14	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-11	29	J	42	9.7	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-12/13	91		85	9.8	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-14	8.2	U	42	8.2	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-15	1800		42	9.1	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-16	780		42	1.7	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-17	420	B	42	1.2	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-18/30	620	B	85	1.0	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-19	74		42	1.7	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-20/28	5800	B	85	50	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-21/33	2900	B	85	47	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-22	2800	G	54	54	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-23	46	U G	46	46	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-24	11	J	42	0.87	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-25	300	G	47	47	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-26/29	540		85	48	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-27	78		42	0.88	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-31	3700	B G	47	47	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-32	330		42	0.68	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-34	48	U G	48	48	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-35	170	G	55	55	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-36	48	U G	48	48	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-37	6000	E G	53	53	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-38	52	U G	52	52	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: NE-B-4_SS
Date Collected: 12/04/13 13:15
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-3
Matrix: Solid
Percent Solids: 93.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-39	49	U G	49	49	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-40/71	**2400**	**B**	85	3.7	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-41	**750**		42	4.8	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-42	**1300**		42	4.1	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-43	**110**		42	4.2	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-44/47/65	3.5	U	130	3.5	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-45	**380**		42	4.1	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-46	**170**		42	4.4	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-48	**850**		42	3.8	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-49/69	**1600**	**B**	85	3.1	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-50/53	**230**		85	3.5	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-51	**74**		42	3.5	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-52	**2300**	**B**	42	3.9	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-54	**3.7**	**J**	42	0.50	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-55	**140**	**B**	42	17	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-56	**4100**		42	18	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-57	**33**	**J**	42	16	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-58	17	U	42	17	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-59/62/75	**380**		130	2.7	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-60	**2700**		42	17	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-61/70/74/76	**9400**	**B**	170	16	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-63	**210**		42	15	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-64	**1900**	**B**	42	2.6	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-66	**7300**	**E B**	42	18	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-67	**230**		42	15	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-68	15	U	42	15	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-72	16	U	42	16	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-73	2.9	U	42	2.9	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-77	**1700**	**G**	18	18	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-78	19	U	42	19	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-79	**40**	**J**	42	16	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-80	16	U	42	16	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-81	**58**	**G**	18	18	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-82	**530**	**G**	47	47	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-83	**100**	**G**	51	51	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-84	**530**	**G**	43	43	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-85/116/117	**520**		130	32	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-86/87/97/108/119/125	**1700**		250	32	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-88/91	**270**		85	36	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-89	**41**	**J**	42	41	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-90/101/113	**1800**	**B**	130	33	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-92	**290**		42	38	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-93/100	36	U	85	36	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-107/124	**88**		85	30	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-94	38	U	42	38	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-95	**1300**	**B**	42	36	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-96	**15**	**J**	42	0.35	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-98/102	**52**	**J**	85	34	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-99	**970**		42	38	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: NE-B-4_SS
Date Collected: 12/04/13 13:15
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-3
Matrix: Solid
Percent Solids: 93.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-103	33	U	42	33	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-104	**0.83**	**J q**	42	0.42	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-105	**1700**	**G**	33	33	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-106	33	U	42	33	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-110/115	**3200**	**B**	85	29	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-109	**170**		42	28	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-111	27	U	42	27	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-112	26	U	42	26	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-114	**66**	**G**	31	31	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-118	**2300**	**B G**	30	30	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-120	28	U	42	28	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-121	26	U	42	26	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-122	**36**	**J**	42	33	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-123	**54**	**G**	30	30	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-126	**67**	**G**	35	35	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-127	32	U	42	32	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-128/166	**650**		85	20	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-129/138/163	**4800**	**B**	130	21	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-130	**240**		42	27	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-131	**26**	**J**	42	25	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-132	**1300**		42	24	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-133	**44**		42	24	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-134/143	**150**		85	24	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-135/151	**980**		85	21	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-136	**330**		42	16	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-137	**99**		42	21	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-139/140	**31**	**J**	85	20	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-141	**800**		42	22	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-142	23	U	42	23	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-144	**170**		42	21	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-145	15	U	42	15	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-146	**610**		42	22	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-147/149	**3200**		85	21	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-148	21	U	42	21	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-150	14	U	42	14	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-152	14	U	42	14	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-153/168	**3700**		85	18	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-154	**20**	**J**	42	19	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-155	17	U	42	17	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-156/157	**470**		8.5	6.8	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-158	**470**		42	16	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-159	**65**		42	5.6	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-160	18	U	42	18	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-161	16	U	42	16	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-162	**20**	**J**	42	5.4	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-164	**370**		42	18	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-165	19	U	42	19	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-167	**190**	**G**	5.1	5.1	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-169	6.0	U G	6.0	6.0	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1

Client Sample ID: NE-B-4_SS
Date Collected: 12/04/13 13:15
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-3
Matrix: Solid
Percent Solids: 93.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-170	2900		42	6.5	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-171/173	820		85	5.9	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-172	470		42	6.1	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-174	2500		42	6.1	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-175	110		42	2.7	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-176	200		42	1.8	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-177	1400		42	6.1	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-178	350		42	2.8	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-179	640		42	1.9	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-180/193	6200		85	4.9	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-181	21	J	42	5.0	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-182	27	J	42	2.5	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-183	1200		42	4.5	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-184	33	J	42	2.0	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-185	270		42	5.4	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-186	2.6	J	42	1.9	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-187	2400		42	2.6	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-188	22	J	42	2.0	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-189	110		4.2	1.1	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-190	450		42	4.6	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-191	130		42	4.4	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-192	8.2	J	42	4.6	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-194	1300		42	4.1	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-195	460		42	3.8	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-196	750		42	2.4	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-197	160		42	1.6	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-198/199	1400		85	2.4	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-200	140		42	1.6	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-201	220		42	1.6	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-202	190		42	1.8	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-203	840		42	2.2	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-204	62		42	1.6	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-205	120		42	3.1	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-206	790		42	2.1	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-207	780		42	1.5	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-208	470		42	1.7	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
PCB-209	8400	E B	42	1.0	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
Total Monochlorobiphenyls	60	J B	420	1.7	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
Total Dichlorobiphenyls	2600	q	420	11	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
Total Trichlorobiphenyls	25000	B	420	33	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
Total Tetrachlorobiphenyls	38000	B	420	10	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
Total Pentachlorobiphenyls	16000	B q	420	32	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
Total Hexachlorobiphenyls	19000	B	420	18	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
Total Heptachlorobiphenyls	20000		420	3.9	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
Total Octachlorobiphenyls	5600		420	2.4	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
Total Nonachlorobiphenyls	2000		420	1.8	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1
Polychlorinated biphenyls, Total	140000	B q	420	11	pg/g	☼	01/09/14 14:14	02/05/14 03:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*42*		*5 - 145*	*01/09/14 14:14*	*02/05/14 03:40*	*1*

Client Sample ID: NE-B-4_SS
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Lab Sample ID: 680-96831-3
Matrix: Solid
Percent Solids: 93.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-15L	65		5 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-123L	88		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-114L	87		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-202L	90		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-3L	42		5 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-118L	88		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-126L	95		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-206L	85		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-169L	100		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-37L	81		5 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-19L	57		5 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-188L	80		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-54L	50		5 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-156L/157L	93		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-167L	92		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-209L	75		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-189L	91		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-105L	89		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-208L	96		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-1L	25		5 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-104L	58		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-81L	101		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-77L	100		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-205L	87		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-155L	68		10 - 145	01/09/14 14:14	02/05/14 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	65		5 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-111L	84		10 - 145	01/09/14 14:14	02/05/14 03:40	1
PCB-178L	86		10 - 145	01/09/14 14:14	02/05/14 03:40	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9100**		98	69	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Barium	**210**		25	1.2	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Beryllium	0.83	U	2.5	0.83	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Cadmium	0.49	U	2.5	0.49	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Calcium	**26000**		1200	65	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Chromium	**18**		4.9	1.5	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Cobalt	**8.4**	**J**	25	4.6	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Copper	**39**		12	3.6	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Iron	**16000**		49	15	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Lead	**79**		4.9	0.84	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Magnesium	**14000**		490	41	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Manganese	**1600**		4.9	0.76	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Nickel	**21**		20	1.1	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Potassium	3300	U	4900	3300	mg/Kg	☼	12/13/13 08:34	01/14/14 19:25	10
Selenium	1.4	U	7.4	1.4	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5
Sodium	**1000**		980	460	mg/Kg	☼	12/13/13 08:34	01/14/14 19:25	10
Vanadium	**43**		25	6.2	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5

Client Sample ID: NE-B-4_SS

Lab Sample ID: 680-96831-3

Date Collected: 12/04/13 13:15

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**99**		25	9.7	mg/Kg	☼	12/13/13 08:34	01/10/14 00:11	5

Method: 6010C - Metals (ICP) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.2	U	4.9	3.2	mg/Kg	☼	01/16/14 15:30	01/17/14 14:03	5
Silver	1.2	U	4.9	1.2	mg/Kg	☼	01/16/14 15:30	01/17/14 14:03	5
Titanium	**550**		9.9	3.1	mg/Kg	☼	01/16/14 15:30	01/17/14 14:03	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.7**		4.9	1.3	mg/Kg	☼	12/13/13 08:38	12/31/13 05:10	10
Thallium	0.75	U	2.5	0.75	mg/Kg	☼	12/13/13 08:38	12/31/13 05:10	10
Uranium	**1.3**		0.49	0.098	mg/Kg	☼	12/13/13 08:38	12/31/13 05:10	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	**3.7**	**J**	13	2.0	mg/Kg	☼	01/03/14 09:27	01/11/14 06:02	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**	**J**	0.033	0.011	mg/Kg	☼	12/09/13 13:36	12/11/13 12:55	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**38**	**H**	4.3	0.86	mg/Kg	☼		01/10/14 13:24	20
Sulfate	**1400**	**H**	110	11	mg/Kg	☼		01/10/14 13:24	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6400**	**H**	430	43	mg/Kg	☼		01/10/14 13:39	200

Client Sample ID: NE-B-4_SUB

Lab Sample ID: 680-96831-4

Date Collected: 12/04/13 14:20

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 96.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		99	69	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Barium	**180**		25	1.2	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Beryllium	0.84	U	2.5	0.84	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Cadmium	0.49	U	2.5	0.49	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Calcium	**25000**		1200	66	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Chromium	**12**		4.9	1.5	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Cobalt	**7.4**	**J**	25	4.6	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Copper	**17**		12	3.6	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Iron	**14000**		49	15	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Lead	**11**		4.9	0.85	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Magnesium	**9600**		490	41	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Manganese	**350**		4.9	0.76	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Nickel	**16**	**J**	20	1.1	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Potassium	3300	U	4900	3300	mg/Kg	☼	12/13/13 08:34	01/14/14 19:29	10

Client Sample ID: NE-B-4_SUB

Lab Sample ID: 680-96831-4

Date Collected: 12/04/13 14:20

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	1.4	U	7.4	1.4	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Sodium	**860**	**J**	990	470	mg/Kg	☼	12/13/13 08:34	01/14/14 19:29	10
Vanadium	**37**		25	6.2	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5
Zinc	**40**		25	9.8	mg/Kg	☼	12/13/13 08:34	01/10/14 00:14	5

Method: 6010C - Metals (ICP) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.2	U	5.0	3.2	mg/Kg	☼	01/16/14 15:30	01/17/14 14:07	5
Silver	1.2	U	5.0	1.2	mg/Kg	☼	01/16/14 15:30	01/17/14 14:07	5
Titanium	**490**		10	3.2	mg/Kg	☼	01/16/14 15:30	01/17/14 14:07	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.8**	**J**	4.9	1.3	mg/Kg	☼	12/13/13 08:38	12/31/13 05:17	10
Thallium	0.75	U	2.5	0.75	mg/Kg	☼	12/13/13 08:38	12/31/13 05:17	10
Uranium	**0.78**		0.49	0.098	mg/Kg	☼	12/13/13 08:38	12/31/13 05:17	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	1.8	U	12	1.8	mg/Kg	☼	01/03/14 09:27	01/11/14 06:08	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.032	0.011	mg/Kg	☼	12/09/13 13:36	12/11/13 12:56	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**12**	**H**	4.1	0.82	mg/Kg	☼		01/10/14 13:54	20
Chloride	**610**	**H**	41	4.1	mg/Kg	☼		01/10/14 13:54	20
Sulfate	**750**	**H**	100	10	mg/Kg	☼		01/10/14 13:54	20

Client Sample ID: NE-B-4_SUB DUP

Lab Sample ID: 680-96831-5

Date Collected: 12/04/13 14:20

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 97.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		100	70	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Barium	**220**		25	1.3	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Beryllium	0.85	U	2.5	0.85	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Cadmium	0.50	U	2.5	0.50	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Calcium	**30000**		1300	67	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Chromium	**13**		5.0	1.5	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Cobalt	**9.5**	**J**	25	4.7	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Copper	**16**		13	3.6	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Iron	**14000**		50	15	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Lead	**12**		5.0	0.86	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Magnesium	**10000**		500	42	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Manganese	**540**		5.0	0.77	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Nickel	**16**	**J**	20	1.1	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Potassium	3400	U	5000	3400	mg/Kg	☼	12/13/13 08:34	01/14/14 19:52	10

Client Sample ID: NE-B-4_SUB DUP

Lab Sample ID: 680-96831-5
Date Collected: 12/04/13 14:20
Matrix: Solid
Date Received: 12/06/13 09:10
Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	1.4	U	7.5	1.4	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Sodium	**1200**		1000	470	mg/Kg	☼	12/13/13 08:34	01/14/14 19:52	10
Vanadium	**36**		25	6.3	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5
Zinc	**38**		25	9.9	mg/Kg	☼	12/13/13 08:34	01/10/14 00:29	5

Method: 6010C - Metals (ICP) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.1	U	4.9	3.1	mg/Kg	☼	01/16/14 15:30	01/17/14 14:22	5
Silver	1.1	U	4.9	1.1	mg/Kg	☼	01/16/14 15:30	01/17/14 14:22	5
Titanium	**480**		9.8	3.1	mg/Kg	☼	01/16/14 15:30	01/17/14 14:22	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.4**	**J**	5.0	1.3	mg/Kg	☼	12/13/13 08:38	12/31/13 05:44	10
Thallium	0.76	U	2.5	0.76	mg/Kg	☼	12/13/13 08:38	12/31/13 05:44	10
Uranium	**1.2**		0.50	0.10	mg/Kg	☼	12/13/13 08:38	12/31/13 05:44	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	1.9	U	13	1.9	mg/Kg	☼	01/03/14 09:27	01/11/14 06:49	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.030	0.010	mg/Kg	☼	12/09/13 13:36	12/11/13 13:03	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**17**	**H**	4.1	0.83	mg/Kg	☼		01/10/14 15:09	20
Sulfate	**1200**	**H**	100	10	mg/Kg	☼		01/10/14 15:09	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**850**	**H**	210	21	mg/Kg	☼		01/10/14 15:24	100

Client Sample ID: DD-B-8_SS

Lab Sample ID: 680-96831-6
Date Collected: 12/04/13 11:20
Matrix: Solid
Date Received: 12/06/13 09:10
Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Acenaphthylene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Anthracene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Benzo[a]anthracene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Benzo[b]fluoranthene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Benzo[k]fluoranthene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Benzo[g,h,i]perylene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Benzo[a]pyrene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Chrysene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Dibenz(a,h)anthracene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Fluoranthene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1

Client Sample ID: DD-B-8_SS
Date Collected: 12/04/13 11:20
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-6
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
Fluorene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Indeno[1,2,3-cd]pyrene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Naphthalene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Phenanthrene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1
Pyrene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/18/13 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*75*		*53 - 97*	*12/18/13 11:29*	*12/18/13 23:49*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*46 - 111*	*12/18/13 11:29*	*12/18/13 23:49*	*1*
Nitrobenzene-d5 (Surr)	*66*		*55 - 98*	*12/18/13 11:29*	*12/18/13 23:49*	*1*
Phenol-d5 (Surr)	*69*		*54 - 101*	*12/18/13 11:29*	*12/18/13 23:49*	*1*
Terphenyl-d14 (Surr)	*75*		*58 - 123*	*12/18/13 11:29*	*12/18/13 23:49*	*1*
2-Fluorobiphenyl (Surr)	*67*		*56 - 97*	*12/18/13 11:29*	*12/18/13 23:49*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**36**	**J B**	420	4.2	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-2	**18**	**J B**	420	4.3	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-3	**16**	**J B**	420	4.4	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-4	140	U	420	140	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-5	200	U	420	200	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-6	200	U	420	200	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-7	190	U	420	190	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-8	190	U	420	190	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-9	210	U	420	210	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-10	81	U	420	81	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-11	210	U	420	210	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-12/13	210	U	850	210	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-14	170	U	420	170	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-15	200	U	420	200	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-16	22	U	420	22	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-17	16	U	420	16	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-18/30	**57**	**J B q**	850	13	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-19	19	U	420	19	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-20/28	**140**	**J B**	850	8.6	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-21/33	**43**	**J B q**	850	8.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-22	**74**	**J B**	420	9.1	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-23	7.8	U	420	7.8	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-24	12	U	420	12	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-25	8.0	U	420	8.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-26/29	**18**	**J q**	850	8.1	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-27	12	U	420	12	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-31	**130**	**J B**	420	8.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-32	9.1	U	420	9.1	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-34	8.1	U	420	8.1	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-35	9.4	U	420	9.4	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-36	8.2	U	420	8.2	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-37	**120**	**J q**	420	10	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-38	8.8	U	420	8.8	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-39	8.3	U	420	8.3	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: DD-B-8_SS
Date Collected: 12/04/13 11:20
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-6
Matrix: Solid
Percent Solids: 94.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-40/71	52	J B q	850	7.4	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-41	10	J q	420	9.6	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-42	33	J q	420	8.3	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-43	8.5	U	420	8.5	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-44/47/65	150	J B	1300	7.1	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-45	11	J q	420	8.3	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-46	8.9	U	420	8.9	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-48	15	J q	420	7.6	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-49/69	73	J B	850	6.2	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-50/53	13	J q	850	7.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-51	7.0	U	420	7.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-52	230	J B	420	7.8	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-54	10	U	420	10	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-55	12	U	420	12	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-56	170	J	420	13	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-57	11	U	420	11	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-58	12	U	420	12	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-59/62/75	5.5	U	1300	5.5	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-60	97	J	420	12	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-61/70/74/76	460	J B	1700	11	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-63	11	U	420	11	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-64	79	J B	420	5.1	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-66	370	J B	420	13	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-67	11	U	420	11	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-68	10	U	420	10	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-72	11	U	420	11	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-73	5.9	U	420	5.9	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-77	130		42	14	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-78	13	U	420	13	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-79	11	U	420	11	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-80	11	U	420	11	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-81	15	U	42	15	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-82	140	J	420	27	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-83	33	J q	420	30	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-84	130	J	420	25	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-85/116/117	160	J	1300	18	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-86/87/97/108/119/125	550	J B	2500	19	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-88/91	65	J	850	21	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-89	23	U	420	23	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-90/101/113	690	J B	1300	19	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-92	100	J	420	22	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-93/100	21	U	850	21	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-107/124	40	J q	850	17	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-94	22	U	420	22	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-95	350	J B	420	21	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-96	4.9	U	420	4.9	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-98/102	20	U	850	20	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-99	380	J B	420	22	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-103	19	U	420	19	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: DD-B-8_SS
Date Collected: 12/04/13 11:20
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-6
Matrix: Solid
Percent Solids: 94.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-104	4.8	U	420	4.8	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-105	**680**		42	20	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-106	19	U	420	19	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-110/115	**1300**	**B**	850	17	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-109	**68**	**J**	420	16	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-111	15	U	420	15	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-112	15	U	420	15	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-114	19	U	42	19	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-115	**1300**	**B**	850	17	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-118	**970**	**B**	42	19	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-120	16	U	420	16	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-121	15	U	420	15	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-122	19	U	420	19	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-123	17	U q	42	17	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-126	26	U	42	26	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-127	19	U	420	19	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-128/166	**280**	**J**	850	17	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-129/138/163	**1800**	**B**	1300	17	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-130	**95**	**J q**	420	22	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-131	21	U	420	21	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-132	**400**	**J**	420	20	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-133	20	U	420	20	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-134/143	**38**	**J**	850	20	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-135/151	**250**	**J**	850	18	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-136	**69**	**J**	420	13	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-137	**64**	**J**	420	17	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-139/140	17	U	850	17	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-141	**240**	**J**	420	19	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-142	19	U	420	19	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-144	**42**	**J**	420	17	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-145	12	U	420	12	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-146	**210**	**J**	420	19	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-147/149	**760**	**J B**	850	17	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-148	17	U	420	17	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-150	12	U	420	12	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-152	12	U	420	12	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-153/168	**1200**	**B**	850	14	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-154	15	U	420	15	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-155	13	U	420	13	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-156/157	**240**		85	10	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-158	**190**	**J**	420	13	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-159	8.3	U	420	8.3	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-160	15	U	420	15	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-161	13	U	420	13	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-162	8.0	U	420	8.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-164	**130**	**J**	420	15	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-165	15	U	420	15	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-167	**93**		42	8.3	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-169	9.0	U	42	9.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10

Client Sample ID: DD-B-8_SS
Date Collected: 12/04/13 11:20
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-6
Matrix: Solid
Percent Solids: 94.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-170	690		420	11	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-171/173	150	J	850	9.7	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-172	90	J q	420	10	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-174	570		420	9.9	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-175	33	J	420	9.7	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-176	35	J q	420	6.5	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-177	350	J	420	10	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-178	84	J	420	10	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-179	110	J	420	7.1	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-180/193	1400		850	8.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-181	8.2	U	420	8.2	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-182	9.0	U	420	9.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-183	280	J	420	7.4	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-184	18	J	420	7.2	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-185	48	J	420	8.9	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-186	6.9	U	420	6.9	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-187	560		420	9.3	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-188	7.1	U	420	7.1	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-189	36	J	42	10	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-190	120	J	420	7.5	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-191	21	J q	420	7.2	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-192	7.5	U	420	7.5	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-194	290	J	420	9.8	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-195	110	J	420	9.1	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-196	180	J	420	7.6	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-197	68	J	420	5.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-198/199	340	J	850	7.9	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-200	26	J q	420	5.1	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-201	79	J	420	5.1	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-202	58	J	420	6.2	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-203	200	J	420	7.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-204	29	J	420	5.3	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-205	43	J	420	6.7	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-206	360	J	420	9.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-207	420		420	6.7	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-208	310	J	420	8.2	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
PCB-209	8400	B	420	6.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
Total Monochlorobiphenyls	70	J B	4200	4.3	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
Total Dichlorobiphenyls	210	U	4200	210	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
Total Trichlorobiphenyls	580	J B q	4200	11	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
Total Tetrachlorobiphenyls	1900	J B q	4200	9.7	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
Total Pentachlorobiphenyls	5600	B q	4200	19	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
Total Hexachlorobiphenyls	6100	B q	4200	15	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
Total Heptachlorobiphenyls	4600	q	4200	8.6	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
Total Octachlorobiphenyls	1400	J q	4200	6.8	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
Total Nonachlorobiphenyls	1100	J	4200	8.0	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10
Polychlorinated biphenyls, Total	30000	B q	4200	30	pg/g	☼	01/02/14 14:13	02/06/14 17:45	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*42*		*5 - 145*	*01/02/14 14:13*	*02/06/14 17:45*	*10*

Client Sample ID: DD-B-8_SS
Date Collected: 12/04/13 11:20
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-6
Matrix: Solid
Percent Solids: 94.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-15L	60		5 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-123L	74		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-114L	69		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-202L	80		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-3L	49		5 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-118L	70		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-126L	68		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-206L	84		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-169L	93		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-37L	56		5 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-19L	51		5 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-188L	68		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-54L	47		5 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-156L/157L	81		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-167L	83		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-209L	93		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-189L	71		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-105L	70		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-208L	89		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-1L	39		5 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-104L	53		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-81L	66		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-77L	67		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-205L	85		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-155L	62		10 - 145	01/02/14 14:13	02/06/14 17:45	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	64		5 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-111L	71		10 - 145	01/02/14 14:13	02/06/14 17:45	10
PCB-178L	84		10 - 145	01/02/14 14:13	02/06/14 17:45	10

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.98	J	2.1	0.21	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
1,2,3,7,8-PeCDD	2.5	J	11	0.62	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
1,2,3,7,8-PeCDF	36		11	1.4	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
2,3,4,7,8-PeCDF	21		11	1.5	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
1,2,3,4,7,8-HxCDD	2.1	J	11	0.32	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
1,2,3,6,7,8-HxCDD	4.8	J	11	0.31	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
1,2,3,7,8,9-HxCDD	4.3	J	11	0.27	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
1,2,3,4,7,8-HxCDF	92		11	3.5	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
1,2,3,6,7,8-HxCDF	51		11	3.1	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
1,2,3,7,8,9-HxCDF	6.1	J	11	3.6	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
2,3,4,6,7,8-HxCDF	12		11	3.4	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
1,2,3,4,6,7,8-HpCDD	22		11	0.44	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
1,2,3,4,6,7,8-HpCDF	200	B	11	2.0	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
1,2,3,4,7,8,9-HpCDF	66		11	2.5	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
OCDD	77	B	21	0.58	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1
OCDF	1400		21	8.6	pg/g	☼	01/02/14 13:23	01/09/14 22:50	1

Client Sample ID: DD-B-8_SS

Date Collected: 12/04/13 11:20
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-6

Matrix: Solid
Percent Solids: 94.2

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*116*		*40 - 135*	*01/02/14 13:23*	*01/09/14 22:50*	*1*
13C-2,3,7,8-TCDD	*93*		*40 - 135*	*01/02/14 13:23*	*01/09/14 22:50*	*1*
13C-1,2,3,7,8-PeCDD	*105*		*40 - 135*	*01/02/14 13:23*	*01/09/14 22:50*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*103*		*40 - 135*	*01/02/14 13:23*	*01/09/14 22:50*	*1*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*	*01/02/14 13:23*	*01/09/14 22:50*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*108*		*40 - 135*	*01/02/14 13:23*	*01/09/14 22:50*	*1*
13C-OCDD	*102*		*40 - 135*	*01/02/14 13:23*	*01/09/14 22:50*	*1*
13C-1,2,3,4,7,8-HxCDF	*94*		*40 - 135*	*01/02/14 13:23*	*01/09/14 22:50*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	**23**		2.1	0.72	pg/g	☼	01/02/14 13:23	01/16/14 04:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*93*		*40 - 135*	*01/02/14 13:23*	*01/16/14 04:15*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		95	67	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Barium	**230**		24	1.2	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Beryllium	0.80	U	2.4	0.80	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Cadmium	0.48	U	2.4	0.48	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Calcium	**20000**		1200	63	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Chromium	**19**		4.8	1.5	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Cobalt	**11**	**J**	24	4.5	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Copper	**26**		12	3.5	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Iron	**17000**		48	14	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Lead	**22**		4.8	0.82	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Magnesium	**11000**		480	40	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Manganese	**690**		4.8	0.73	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Nickel	**21**		19	1.1	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Potassium	3200	U	4800	3200	mg/Kg	☼	12/13/13 08:34	01/14/14 19:55	10
Selenium	1.4	U	7.1	1.4	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Sodium	**630**	**J**	950	450	mg/Kg	☼	12/13/13 08:34	01/14/14 19:55	10
Vanadium	**56**		24	6.0	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5
Zinc	**53**		24	9.4	mg/Kg	☼	12/13/13 08:34	01/10/14 00:41	5

Method: 6010C - Metals (ICP) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.0	U	4.7	3.0	mg/Kg	☼	01/16/14 15:30	01/17/14 14:26	5
Silver	1.1	U	4.7	1.1	mg/Kg	☼	01/16/14 15:30	01/17/14 14:26	5
Titanium	**660**		9.4	3.0	mg/Kg	☼	01/16/14 15:30	01/17/14 14:26	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.8**	**J**	4.8	1.2	mg/Kg	☼	12/13/13 08:38	12/31/13 05:50	10
Thallium	0.72	U	2.4	0.72	mg/Kg	☼	12/13/13 08:38	12/31/13 05:50	10
Uranium	**1.6**		0.48	0.095	mg/Kg	☼	12/13/13 08:38	12/31/13 05:50	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	**29**		12	1.8	mg/Kg	☼	01/03/14 09:27	01/11/14 06:56	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: DD-B-8_SS
Date Collected: 12/04/13 11:20
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-6
Matrix: Solid
Percent Solids: 94.2

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	J	0.033	0.011	mg/Kg	☼	12/09/13 13:36	12/11/13 13:05	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.72	H	0.21	0.042	mg/Kg	☼		01/10/14 15:39	1
Chloride	2.2	H	2.1	0.21	mg/Kg	☼		01/10/14 15:39	1
Sulfate	17	H	5.3	0.53	mg/Kg	☼		01/10/14 15:39	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	27.5		10.0	4.54	pCi/g		12/23/13 11:18	12/23/13 18:49	1
Gross Beta	33.8		10.0	2.26	pCi/g		12/23/13 11:18	12/23/13 18:49	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.08			0.269	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Bismuth-212	2.63			0.832	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Bismuth-214	1.61			0.203	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Bismuth-210M	0.0195	U		0.140	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Cesium-134	0.0424	U		0.118	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Cesium-137	-0.0292	U		0.0964	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Cobalt-57	0.0375	U		0.0491	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Cobalt-60	0.0195	U		0.0960	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Lead-212	1.81			0.138	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Lead-214	1.80			0.203	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Potassium-40	24.0			0.967	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Protactinium-231	0.700	U		2.68	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Protactinium-234	0.00436	U		0.346	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Radium-224	0.988	U		2.10	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Thallium-208	0.631			0.0832	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Thorium-227	0.101	U		1.87	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Thorium-234	1.16	U		1.72	pCi/g		12/23/13 16:53	01/14/14 21:59	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	2.01		1.00	0.224	pCi/g		12/13/13 15:38	01/08/14 16:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*111*	*X*	*40 - 110*	*12/13/13 15:38*	*01/08/14 16:22*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.13		1.00	0.316	pCi/g		12/13/13 14:41	01/08/14 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*111*	*X*	*40 - 110*	*12/13/13 14:41*	*01/08/14 12:16*	*1*
Y Carrier	*89.7*		*40 - 110*	*12/13/13 14:41*	*01/08/14 12:16*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.97		1.00	0.0888	pCi/g		01/10/14 14:41	01/18/14 16:41	1

Client Sample ID: DD-B-8_SS

Date Collected: 12/04/13 11:20
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-6
Matrix: Solid

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-230	1.50		1.00	0.117	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-232	1.86		1.00	0.0892	pCi/g		01/10/14 14:41	01/18/14 16:41	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*70.9*		*30 - 110*	*01/10/14 14:41*	*01/18/14 16:41*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	1.05		1.00	0.0337	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-235/236	0.0700		1.00	0.0420	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-238	1.27		1.00	0.0337	pCi/g		01/10/14 14:41	01/17/14 20:37	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*79.5*		*30 - 110*	*01/10/14 14:41*	*01/17/14 20:37*	*1*

Client Sample ID: DD-B-8_SUB

Date Collected: 12/04/13 12:30
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-7
Matrix: Solid
Percent Solids: 93.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		100	72	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Barium	240		26	1.3	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Beryllium	0.86	U	2.6	0.86	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Cadmium	0.51	U	2.6	0.51	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Calcium	27000		1300	68	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Chromium	15		5.1	1.6	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Cobalt	9.7	J	26	4.8	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Copper	19		13	3.7	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Iron	16000		51	15	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Lead	12		5.1	0.88	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Magnesium	10000		510	43	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Manganese	500		5.1	0.79	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Nickel	18	J	20	1.2	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Potassium	3400	U	5100	3400	mg/Kg	☼	12/13/13 08:34	01/14/14 19:59	10
Selenium	1.5	U	7.7	1.5	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Sodium	960	J	1000	480	mg/Kg	☼	12/13/13 08:34	01/14/14 19:59	10
Vanadium	44		26	6.4	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5
Zinc	40		26	10	mg/Kg	☼	12/13/13 08:34	01/10/14 00:45	5

Method: 6010C - Metals (ICP) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.0	U	4.7	3.0	mg/Kg	☼	01/16/14 15:30	01/17/14 14:30	5
Silver	1.1	U	4.7	1.1	mg/Kg	☼	01/16/14 15:30	01/17/14 14:30	5
Titanium	530		9.3	2.9	mg/Kg	☼	01/16/14 15:30	01/17/14 14:30	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.1		5.1	1.3	mg/Kg	☼	12/13/13 08:38	12/31/13 05:57	10
Thallium	0.78	U	2.6	0.78	mg/Kg	☼	12/13/13 08:38	12/31/13 05:57	10
Uranium	1.6		0.51	0.10	mg/Kg	☼	12/13/13 08:38	12/31/13 05:57	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: DD-B-8_SUB
Date Collected: 12/04/13 12:30
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-7
Matrix: Solid
Percent Solids: 93.9

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	2.6	J	12	1.9	mg/Kg	☼	01/03/14 09:27	01/11/14 07:03	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.033	0.011	mg/Kg	☼	12/09/13 13:36	12/11/13 13:06	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.3	H	0.21	0.042	mg/Kg	☼		01/10/14 15:54	1
Chloride	17	H	2.1	0.21	mg/Kg	☼		01/10/14 15:54	1
Sulfate	57	H	5.3	0.53	mg/Kg	☼		01/10/14 15:54	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	20.7		10.0	4.43	pCi/g		12/23/13 11:18	12/23/13 19:01	1
Gross Beta	26.6		10.0	3.33	pCi/g		12/23/13 11:18	12/23/13 19:01	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.96			0.320	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Bismuth-212	1.88			1.57	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Bismuth-214	1.15			0.148	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Bismuth-210M	0.0568	U		0.182	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Cesium-134	-0.00405	U		0.155	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Cesium-137	0.000455	U		0.140	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Cobalt-57	0.000630	U		0.0924	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Cobalt-60	0.0348	U		0.145	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Lead-212	1.91			0.261	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Lead-214	1.45			0.279	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Potassium-40	22.4			1.29	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Protactinium-231	0.798	U		3.80	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Protactinium-234	-0.126	U		0.500	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Radium-224	-5.43	U		5.58	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Thallium-208	0.671			0.131	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Thorium-227	0.0453	U		0.491	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Thorium-234	0.897	U		3.54	pCi/g		12/23/13 16:53	01/14/14 22:00	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	1.55		1.00	0.188	pCi/g		12/13/13 15:38	01/08/14 16:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*111*	*X*	*40 - 110*	*12/13/13 15:38*	*01/08/14 16:22*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.12		1.00	0.309	pCi/g		12/13/13 14:41	01/08/14 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*111*	*X*	*40 - 110*	*12/13/13 14:41*	*01/08/14 12:16*	*1*
Y Carrier	*90.8*		*40 - 110*	*12/13/13 14:41*	*01/08/14 12:16*	*1*

Client Sample ID: DD-B-8_SUB

Lab Sample ID: 680-96831-7

Date Collected: 12/04/13 12:30

Matrix: Solid

Date Received: 12/06/13 09:10

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.56**		1.00	0.122	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-230	**1.26**		1.00	0.0726	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-232	**1.64**		1.00	0.0381	pCi/g		01/10/14 14:41	01/18/14 16:41	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*74.8*		*30 - 110*	*01/10/14 14:41*	*01/18/14 16:41*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.32**		1.00	0.0339	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-235/236	0.0255	U	1.00	0.0640	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-238	**1.14**		1.00	0.0338	pCi/g		01/10/14 14:41	01/17/14 20:37	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*82.4*		*30 - 110*	*01/10/14 14:41*	*01/17/14 20:37*	*1*

Client Sample ID: DD-B-10_SS

Lab Sample ID: 680-96831-8

Date Collected: 12/04/13 09:45

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 94.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**51**	**B**	42	1.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-2	**31**	**J**	42	1.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-3	**66**		42	1.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-4	48	U G	48	48	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-5	12	U	42	12	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-6	**43**	**q**	42	12	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-7	11	U	42	11	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-8	**82**	**q**	42	12	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-9	**23**	**J**	42	13	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-10	32	U	42	32	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-11	**27**	**J q**	42	12	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-12/13	**73**	**J q**	84	13	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-14	10	U	42	10	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-15	**200**	**q**	42	13	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-16	**21**	**J**	42	2.8	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-17	**17**	**J B**	42	2.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-18/30	**36**	**J B**	84	1.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-19	**2.8**	**J q**	42	2.3	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-20/28	**170**	**B**	84	3.9	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-21/33	**67**	**J B**	84	3.6	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-22	**64**		42	4.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-23	3.5	U	42	3.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-24	1.5	U	42	1.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-25	**6.9**	**J q**	42	3.6	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-26/29	**22**	**J**	84	3.6	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-27	**2.5**	**J q**	42	1.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-31	**160**	**B**	42	3.6	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-32	**9.5**	**J**	42	1.2	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: DD-B-10_SS
Date Collected: 12/04/13 09:45
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-8
Matrix: Solid
Percent Solids: 94.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-34	3.6	U	42	3.6	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-35	**21**	**J**	42	4.2	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-36	3.7	U	42	3.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-37	**260**		42	5.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-38	4.0	U	42	4.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-39	**4.3**	**J**	42	3.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-40/71	**88**	**B**	84	1.9	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-41	**16**	**J**	42	2.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-42	**45**		42	2.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-43	**3.8**	**J**	42	2.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-44/47/65	**230**	**B**	130	1.8	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-45	**16**	**J**	42	2.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-46	**6.5**	**J**	42	2.2	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-48	**32**	**J**	42	1.9	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-49/69	**120**	**B**	84	1.6	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-50/53	**16**	**J**	84	1.8	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-51	**4.5**	**J**	42	1.8	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-52	**440**	**B**	42	2.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-54	1.5	U	42	1.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-55	8.1	U	42	8.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-56	**250**		42	8.8	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-57	8.0	U	42	8.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-58	8.0	U	42	8.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-59/62/75	**15**	**J**	130	1.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-60	**140**		42	8.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-61/70/74/76	**1100**	**B**	170	7.9	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-63	**13**	**J q**	42	7.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-64	**92**	**B**	42	1.3	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-66	**590**	**B**	42	8.9	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-67	7.5	U	42	7.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-68	7.1	U	42	7.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-72	7.7	U	42	7.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-73	1.5	U	42	1.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-77	**340**	**G**	9.7	9.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-78	9.1	U	42	9.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-79	**31**	**J**	42	7.9	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-80	7.5	U	42	7.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-81	**16**	**G**	9.8	9.8	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-82	**170**		42	27	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-83	**34**	**J q**	42	29	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-84	**180**		42	24	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-85/116/117	**200**		130	18	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-86/87/97/108/119/125	**760**		250	18	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-88/91	**75**	**J**	84	20	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-89	23	U	42	23	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-90/101/113	**970**	**B**	130	18	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-92	**140**		42	22	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-93/100	20	U	84	20	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-107/124	**83**	**J**	84	17	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: DD-B-10_SS
Date Collected: 12/04/13 09:45
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-8
Matrix: Solid
Percent Solids: 94.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-94	22	U	42	22	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-95	**470**	**B**	42	20	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-96	**2.7**	**J**	42	1.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-98/102	19	U	84	19	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-99	**470**		42	21	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-103	19	U	42	19	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-104	1.2	U	42	1.2	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-105	**1400**	**G**	18	18	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-106	18	U	42	18	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-110/115	**1600**	**B**	84	16	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-109	**140**		42	16	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-111	15	U	42	15	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-112	14	U	42	14	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-114	**50**	**G**	18	18	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-118	**2400**	**B G**	17	17	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-120	16	U	42	16	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-121	15	U	42	15	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-122	**30**	**J**	42	19	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-123	**35**	**G**	17	17	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-126	**110**	**G**	18	18	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-127	18	U	42	18	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-128/166	**470**		84	7.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-129/138/163	**2800**	**B**	130	7.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-130	**160**		42	9.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-131	**13**	**J**	42	9.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-132	**470**		42	8.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-133	**22**	**J**	42	8.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-134/143	**56**	**J**	84	8.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-135/151	**340**		84	7.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-136	**87**		42	5.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-137	**84**		42	7.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-139/140	**17**	**J**	84	7.2	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-141	**420**		42	8.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-142	8.3	U	42	8.3	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-144	**54**		42	7.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-145	5.3	U	42	5.3	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-146	**290**		42	7.9	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-147/149	**910**		84	7.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-148	7.4	U	42	7.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-150	5.0	U	42	5.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-152	5.1	U	42	5.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-153/168	**1900**		84	6.2	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-154	**14**	**J**	42	6.6	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-155	7.0	U	42	7.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-156/157	**570**	**G**	9.1	9.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-158	**310**		42	5.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-159	**42**		42	7.9	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-160	6.5	U	42	6.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-161	5.7	U	42	5.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: DD-B-10_SS
Date Collected: 12/04/13 09:45
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-8
Matrix: Solid
Percent Solids: 94.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-162	21	J	42	7.6	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-164	200		42	6.3	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-165	6.6	U	42	6.6	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-167	240	G	7.0	7.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-169	21	q G	8.1	8.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-170	1900		42	7.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-171/173	380		84	6.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-172	330		42	6.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-174	1400		42	6.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-175	58		42	2.6	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-176	83		42	1.8	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-177	800		42	6.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-178	210		42	2.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-179	310		42	1.9	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-180/193	4300		84	5.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-181	11	J q	42	5.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-182	16	J q	42	2.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-183	630		42	5.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-184	15	J	42	2.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-185	140		42	6.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-186	1.9	U	42	1.9	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-187	1400		42	2.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-188	12	J	42	2.2	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-189	90		4.2	2.3	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-190	430		42	5.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-191	99		42	4.9	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-192	5.0	U	42	5.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-194	1800		42	4.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-195	480		42	4.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-196	820		42	5.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-197	110		42	3.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-198/199	1700		84	5.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-200	140		42	3.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-201	200		42	3.7	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-202	230		42	4.6	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-203	980		42	5.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-204	35	J	42	3.8	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-205	130		42	2.9	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-206	1200		42	2.9	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-207	750		42	2.1	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-208	610		42	2.6	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
PCB-209	12000	E B	42	2.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
Total Monochlorobiphenyls	150	J B	420	1.4	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
Total Dichlorobiphenyls	450	q	420	17	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
Total Trichlorobiphenyls	870	B q	420	3.2	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
Total Tetrachlorobiphenyls	3600	B q	420	5.0	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
Total Pentachlorobiphenyls	9300	B q	420	18	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
Total Hexachlorobiphenyls	9500	B q	420	7.2	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
Total Heptachlorobiphenyls	13000	q	420	4.2	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1

Client Sample ID: DD-B-10_SS
Date Collected: 12/04/13 09:45
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-8
Matrix: Solid
Percent Solids: 94.0

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Octachlorobiphenyls	6600		420	4.3	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
Total Nonachlorobiphenyls	2600		420	2.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1
Polychlorinated biphenyls, Total	58000	B q	420	6.5	pg/g	☼	01/09/14 14:14	02/05/14 04:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*27*		*5 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-15L	*30*		*5 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-123L	*30*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-114L	*30*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-202L	*29*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-3L	*29*		*5 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-118L	*30*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-126L	*37*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-206L	*35*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-169L	*39*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-37L	*26*		*5 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-19L	*28*		*5 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-188L	*24*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-54L	*22*		*5 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-156L/157L	*35*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-167L	*34*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-209L	*30*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-189L	*34*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-105L	*31*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-208L	*35*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-1L	*27*		*5 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-104L	*22*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-81L	*30*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-77L	*30*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-205L	*36*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-155L	*21*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*49*		*5 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-111L	*65*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*
PCB-178L	*70*		*10 - 145*	*01/09/14 14:14*	*02/05/14 04:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		92	64	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Barium	220		23	1.1	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Beryllium	0.77	U	2.3	0.77	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Cadmium	0.46	U	2.3	0.46	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Calcium	20000		1100	61	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Chromium	17		4.6	1.4	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Cobalt	10	J	23	4.3	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Copper	23		11	3.3	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Iron	18000		46	14	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Lead	17		4.6	0.79	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Magnesium	10000		460	38	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Manganese	720		4.6	0.71	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5

Client Sample ID: DD-B-10_SS

Lab Sample ID: 680-96831-8

Date Collected: 12/04/13 09:45
Matrix: Solid
Date Received: 12/06/13 09:10
Percent Solids: 94.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**19**		18	1.0	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Potassium	3100	U	4600	3100	mg/Kg	☼	12/13/13 08:34	01/14/14 20:03	10
Selenium	1.3	U	6.9	1.3	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Sodium	**830**	**J**	920	430	mg/Kg	☼	12/13/13 08:34	01/14/14 20:03	10
Vanadium	**48**		23	5.8	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5
Zinc	**47**		23	9.1	mg/Kg	☼	12/13/13 08:34	01/10/14 00:49	5

Method: 6010C - Metals (ICP) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.1	U	4.8	3.1	mg/Kg	☼	01/16/14 15:30	01/17/14 14:34	5
Silver	1.1	U	4.8	1.1	mg/Kg	☼	01/16/14 15:30	01/17/14 14:34	5
Titanium	**610**		9.5	3.0	mg/Kg	☼	01/16/14 15:30	01/17/14 14:34	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.3**	**J**	4.6	1.2	mg/Kg	☼	12/13/13 08:38	12/31/13 06:04	10
Thallium	0.70	U	2.3	0.70	mg/Kg	☼	12/13/13 08:38	12/31/13 06:04	10
Uranium	**1.1**		0.46	0.091	mg/Kg	☼	12/13/13 08:38	12/31/13 06:04	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	**6.9**	**J**	12	1.8	mg/Kg	☼	01/03/14 09:27	01/11/14 07:09	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**	**J**	0.034	0.011	mg/Kg	☼	12/09/13 13:36	12/11/13 13:08	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.91**	**H**	0.21	0.043	mg/Kg	☼		01/10/14 16:08	1
Chloride	**8.0**	**H**	2.1	0.21	mg/Kg	☼		01/10/14 16:08	1
Sulfate	**15**	**H**	5.4	0.54	mg/Kg	☼		01/10/14 16:08	1

Client Sample ID: DD-B-10_SUB

Lab Sample ID: 680-96831-9

Date Collected: 12/04/13 10:55
Matrix: Solid
Date Received: 12/06/13 09:10
Percent Solids: 95.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18000**		100	71	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Barium	**170**		25	1.3	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Beryllium	0.86	U	2.5	0.86	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Cadmium	0.51	U	2.5	0.51	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Calcium	**28000**		1300	68	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Chromium	**14**		5.1	1.6	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Cobalt	**11**	**J**	25	4.8	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Copper	**21**		13	3.7	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Iron	**17000**		51	15	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Lead	**9.3**		5.1	0.87	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Magnesium	**11000**		510	42	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Manganese	**420**		5.1	0.78	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5

Client Sample ID: DD-B-10_SUB

Lab Sample ID: 680-96831-9

Date Collected: 12/04/13 10:55

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**20**		20	1.1	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Potassium	3400	U	5100	3400	mg/Kg	☼	12/13/13 08:34	01/14/14 20:07	10
Selenium	1.5	U	7.6	1.5	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Sodium	**6000**		1000	480	mg/Kg	☼	12/13/13 08:34	01/14/14 20:07	10
Vanadium	**45**		25	6.4	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5
Zinc	**47**		25	10	mg/Kg	☼	12/13/13 08:34	01/10/14 00:53	5

Method: 6010C - Metals (ICP) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.3	U	5.2	3.3	mg/Kg	☼	01/16/14 15:30	01/17/14 14:37	5
Silver	1.2	U	5.2	1.2	mg/Kg	☼	01/16/14 15:30	01/17/14 14:37	5
Titanium	**740**		10	3.3	mg/Kg	☼	01/16/14 15:30	01/17/14 14:37	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.4**	**J**	5.1	1.3	mg/Kg	☼	12/13/13 08:38	12/31/13 06:10	10
Thallium	0.77	U	2.5	0.77	mg/Kg	☼	12/13/13 08:38	12/31/13 06:10	10
Uranium	**1.1**		0.51	0.10	mg/Kg	☼	12/13/13 08:38	12/31/13 06:10	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	2.0	U	13	2.0	mg/Kg	☼	01/20/14 12:07	01/20/14 18:47	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**	**J B**	0.034	0.011	mg/Kg	☼	12/11/13 13:37	12/15/13 14:08	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**7.3**	**H**	0.21	0.042	mg/Kg	☼		01/10/14 16:23	1
Sulfate	**200**	**H**	5.2	0.52	mg/Kg	☼		01/10/14 16:23	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**	**H**	42	4.2	mg/Kg	☼		01/10/14 16:38	20

Client Sample ID: DD-B-10_SUB DUP

Lab Sample ID: 680-96831-10

Date Collected: 12/04/13 10:55

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 94.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		100	72	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Barium	**200**		26	1.3	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Beryllium	0.87	U	2.6	0.87	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Cadmium	0.51	U	2.6	0.51	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Calcium	**27000**		1300	68	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Chromium	**15**		5.1	1.6	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Cobalt	**9.4**	**J**	26	4.8	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Copper	**17**		13	3.7	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Iron	**17000**		51	15	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5

Client Sample ID: DD-B-10_SUB DUP

Lab Sample ID: 680-96831-10

Date Collected: 12/04/13 10:55
Matrix: Solid
Date Received: 12/06/13 09:10
Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**10**		5.1	0.88	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Magnesium	**10000**		510	43	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Manganese	**400**		5.1	0.79	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Nickel	**18**	**J**	20	1.2	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Potassium	3500	U	5100	3500	mg/Kg	☼	12/13/13 08:34	01/14/14 20:18	10
Selenium	1.5	U	7.7	1.5	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Sodium	**1400**		1000	480	mg/Kg	☼	12/13/13 08:34	01/14/14 20:18	10
Vanadium	**44**		26	6.5	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5
Zinc	**41**		26	10	mg/Kg	☼	12/13/13 08:34	01/10/14 01:04	5

Method: 6010C - Metals (ICP) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.2	U	4.9	3.2	mg/Kg	☼	01/16/14 15:30	01/17/14 14:56	5
Silver	1.2	U	4.9	1.2	mg/Kg	☼	01/16/14 15:30	01/17/14 14:56	5
Titanium	**540**		9.8	3.1	mg/Kg	☼	01/16/14 15:30	01/17/14 14:56	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.2**		5.1	1.3	mg/Kg	☼	12/13/13 08:38	12/31/13 06:44	10
Thallium	0.78	U	2.6	0.78	mg/Kg	☼	12/13/13 08:38	12/31/13 06:44	10
Uranium	**1.5**		0.51	0.10	mg/Kg	☼	12/13/13 08:38	12/31/13 06:44	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	1.7	U	11	1.7	mg/Kg	☼	01/03/14 09:27	01/11/14 07:23	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	12/09/13 13:36	12/11/13 13:18	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**6.8**	**H**	0.21	0.042	mg/Kg	☼		01/10/14 18:23	1
Sulfate	**180**	**H**	5.3	0.53	mg/Kg	☼		01/10/14 18:23	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**	**H**	42	4.2	mg/Kg	☼		01/10/14 18:38	20

Client Sample ID: RINSATE

Lab Sample ID: 680-96831-11

Date Collected: 12/05/13 12:30
Matrix: Water
Date Received: 12/06/13 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.95	U	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Acenaphthylene	0.95	U	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Anthracene	0.95	U	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Benzo[a]anthracene	0.95	U	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Benzo[b]fluoranthene	0.95	U	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Benzo[k]fluoranthene	0.95	U	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: RINSATE
Date Collected: 12/05/13 12:30
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	0.95	U	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Benzo[a]pyrene	0.95	U *	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Chrysene	0.95	U	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Dibenz(a,h)anthracene	0.95	U	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Fluoranthene	0.95	U *	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Fluorene	0.95	U *	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Indeno[1,2,3-cd]pyrene	0.95	U	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Naphthalene	0.95	U	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Phenanthrene	0.95	U *	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1
Pyrene	0.95	U	9.5	0.95	ug/L		12/11/13 11:45	12/11/13 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*42*		*10 - 74*	*12/11/13 11:45*	*12/11/13 22:01*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*47 - 103*	*12/11/13 11:45*	*12/11/13 22:01*	*1*
Nitrobenzene-d5 (Surr)	*66*		*31 - 105*	*12/11/13 11:45*	*12/11/13 22:01*	*1*
Phenol-d5 (Surr)	*27*		*10 - 50*	*12/11/13 11:45*	*12/11/13 22:01*	*1*
Terphenyl-d14 (Surr)	*60*	*X*	*68 - 116*	*12/11/13 11:45*	*12/11/13 22:01*	*1*
2-Fluorobiphenyl (Surr)	*63*		*30 - 99*	*12/11/13 11:45*	*12/11/13 22:01*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**22**	**J**	190	0.73	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-2	0.75	U	190	0.75	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-3	**3.8**	**J q**	190	0.78	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-4	4.0	U	190	4.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-5	4.2	U	190	4.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-6	4.3	U	190	4.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-7	4.0	U	190	4.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-8	4.1	U	190	4.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-9	4.5	U	190	4.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-10	2.4	U	190	2.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-11	**46**	**J**	190	4.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-12/13	4.4	U	390	4.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-14	3.7	U	190	3.7	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-15	4.4	U	190	4.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-16	**33**	**J**	190	4.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-17	**30**	**J**	190	2.9	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-18/30	**210**	**J**	390	2.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-19	**8.2**	**J q**	190	3.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-20/28	**510**	**B**	390	7.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-21/33	**84**	**J**	390	6.8	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-22	**160**	**J**	190	7.8	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-23	6.6	U	190	6.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-24	2.2	U	190	2.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-25	6.9	U	190	6.9	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-26/29	**41**	**J**	390	6.9	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-27	**9.3**	**J**	190	2.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-31	**510**	**B**	190	6.8	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-32	**84**	**J**	190	1.7	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-34	6.9	U	190	6.9	pg/L		12/17/13 10:53	01/31/14 03:36	1

Client Sample ID: RINSATE
Date Collected: 12/05/13 12:30
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-11
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-35	8.0	U	190	8.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-36	7.0	U	190	7.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-37	**86**	**J**	190	8.8	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-38	7.5	U	190	7.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-39	7.1	U	190	7.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-40/71	**440**		390	2.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-41	**55**	**J**	190	3.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-42	**240**		190	2.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-43	**34**	**J**	190	2.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-44/47/65	**990**	**B**	580	2.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-45	**130**	**J**	190	2.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-46	**42**	**J**	190	2.8	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-48	**190**		190	2.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-49/69	**500**	**B**	390	1.9	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-50/53	**140**	**J**	390	2.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-51	**33**	**J**	190	2.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-52	**1200**	**B**	190	2.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-54	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-55	5.8	U	190	5.8	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-56	**490**		190	6.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-57	5.7	U	190	5.7	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-58	**11**	**J q**	190	5.7	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-59/62/75	**63**	**J**	580	1.7	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-60	**300**		190	6.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-61/70/74/76	**1700**		770	5.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-63	**31**	**J**	190	5.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-64	**450**		190	1.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-66	**970**	**B**	190	6.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-67	**13**	**J q**	190	5.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-68	5.1	U	190	5.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-72	5.5	U	190	5.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-73	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-77	**100**		19	7.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-78	6.5	U	190	6.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-79	**17**	**J**	190	5.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-80	5.4	U	190	5.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-81	6.9	U	19	6.9	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-82	**150**	**J**	190	14	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-83	**41**	**J q**	190	15	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-84	**240**		190	12	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-85/116/117	**160**	**J**	580	9.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-86/87/97/108/119/125	**570**	**J**	1200	9.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-88/91	**110**	**J**	390	10	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-89	12	U	190	12	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-90/101/113	**610**	**B**	580	9.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-92	**110**	**J**	190	11	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-93/100	10	U	390	10	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-107/124	**25**	**J**	390	8.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-94	11	U	190	11	pg/L		12/17/13 10:53	01/31/14 03:36	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: RINSATE
Date Collected: 12/05/13 12:30
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-11
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-95	500	B	190	10	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-96	5.7	J q	190	0.99	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-98/102	25	J	390	9.8	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-99	310	q	190	11	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-103	9.7	U	190	9.7	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-104	0.98	U	190	0.98	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-105	400		19	9.9	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-106	9.4	U	190	9.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-110/115	940	B	390	8.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-109	42	J	190	8.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-111	7.6	U	190	7.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-112	7.4	U	190	7.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-114	21		19	9.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-115	940	B	390	8.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-118	680	B	19	9.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-120	8.1	U	190	8.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-121	7.6	U	190	7.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-122	9.6	U	190	9.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-123	14	J	19	9.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-126	15	J	19	12	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-127	9.4	U	190	9.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-128/166	81	J	390	3.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-129/138/163	430	J B	580	3.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-130	30	J	190	3.9	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-131	6.7	J	190	3.7	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-132	150	J	190	3.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-133	3.5	U	190	3.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-134/143	20	J q	390	3.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-135/151	78	J	390	3.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-136	36	J	190	2.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-137	22	J q	190	3.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-139/140	6.8	J	390	3.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-141	66	J	190	3.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-142	3.5	U	190	3.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-144	14	J	190	3.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-145	2.2	U	190	2.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-146	45	J	190	3.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-147/149	230	J B	390	3.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-148	3.1	U	190	3.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-150	2.1	U	190	2.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-152	2.1	U	190	2.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-153/168	230	J B	390	2.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-154	2.7	U	190	2.7	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-155	2.2	U	190	2.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-156/157	65		39	2.9	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-158	50	J	190	2.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-159	2.4	U	190	2.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-160	2.7	U	190	2.7	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-161	2.4	U	190	2.4	pg/L		12/17/13 10:53	01/31/14 03:36	1

Client Sample ID: RINSATE
Date Collected: 12/05/13 12:30
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-11
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-162	2.3	U	190	2.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-164	**27**	**J**	190	2.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-165	2.7	U	190	2.7	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-167	**20**		19	2.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-169	2.9	U	19	2.9	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-170	**57**	**J**	190	1.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-171/173	**13**	**J q**	390	1.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-172	**7.0**	**J q**	190	1.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-174	**37**	**J q**	190	1.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-175	1.9	U	190	1.9	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-176	**3.6**	**J**	190	1.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-177	**23**	**J q**	190	1.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-178	**4.8**	**J q**	190	1.9	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-179	**9.6**	**J q**	190	1.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-180/193	**88**	**J**	390	1.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-181	1.1	U	190	1.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-182	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-183	**24**	**J**	190	1.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-184	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-185	1.2	U	190	1.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-186	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-187	**29**	**J q**	190	1.8	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-188	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-189	2.1	U	19	2.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-190	**8.1**	**J q**	190	1.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-191	**3.0**	**J**	190	1.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-192	1.0	U	190	1.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-194	**11**	**J**	190	2.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-195	2.1	U	190	2.1	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-196	**4.4**	**J**	190	2.2	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-197	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-198/199	**8.1**	**J q**	390	2.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-200	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-201	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-202	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-203	**4.9**	**J**	190	2.0	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-204	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-205	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-206	**3.1**	**J q**	190	1.8	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-207	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-208	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 03:36	1
PCB-209	**17**	**J q**	190	1.4	pg/L		12/17/13 10:53	01/31/14 03:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*49*		*5 - 145*	*12/17/13 10:53*	*01/31/14 03:36*	*1*
PCB-3L	*59*		*5 - 145*	*12/17/13 10:53*	*01/31/14 03:36*	*1*
PCB-4L	*56*		*5 - 145*	*12/17/13 10:53*	*01/31/14 03:36*	*1*
PCB-15L	*74*		*5 - 145*	*12/17/13 10:53*	*01/31/14 03:36*	*1*
PCB-19L	*61*		*5 - 145*	*12/17/13 10:53*	*01/31/14 03:36*	*1*
PCB-37L	*72*		*5 - 145*	*12/17/13 10:53*	*01/31/14 03:36*	*1*

Client Sample ID: RINSATE
Date Collected: 12/05/13 12:30
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-11
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-54L	53		5 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-77L	78		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-81L	77		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-104L	61		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-105L	75		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-114L	73		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-118L	74		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-123L	74		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-126L	73		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-155L	65		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-156L/157L	81		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-167L	80		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-169L	79		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-188L	64		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-189L	73		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-202L	71		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-205L	81		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-206L	80		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-208L	81		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-209L	78		10 - 145	12/17/13 10:53	01/31/14 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	80		5 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-111L	85		10 - 145	12/17/13 10:53	01/31/14 03:36	1
PCB-178L	87		10 - 145	12/17/13 10:53	01/31/14 03:36	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.14	U	9.5	0.14	pg/L		12/16/13 16:32	01/10/14 03:07	1
2,3,7,8-TCDF	0.088	U	9.5	0.088	pg/L		12/16/13 16:32	01/10/14 03:07	1
1,2,3,7,8-PeCDD	0.19	U	47	0.19	pg/L		12/16/13 16:32	01/10/14 03:07	1
1,2,3,7,8-PeCDF	0.13	U	47	0.13	pg/L		12/16/13 16:32	01/10/14 03:07	1
2,3,4,7,8-PeCDF	0.13	U	47	0.13	pg/L		12/16/13 16:32	01/10/14 03:07	1
1,2,3,4,7,8-HxCDD	0.13	U	47	0.13	pg/L		12/16/13 16:32	01/10/14 03:07	1
1,2,3,6,7,8-HxCDD	0.12	U	47	0.12	pg/L		12/16/13 16:32	01/10/14 03:07	1
1,2,3,7,8,9-HxCDD	0.11	U	47	0.11	pg/L		12/16/13 16:32	01/10/14 03:07	1
1,2,3,4,7,8-HxCDF	**0.70**	**J B**	47	0.11	pg/L		12/16/13 16:32	01/10/14 03:07	1
1,2,3,6,7,8-HxCDF	**0.29**	**J q**	47	0.092	pg/L		12/16/13 16:32	01/10/14 03:07	1
1,2,3,7,8,9-HxCDF	0.11	U	47	0.11	pg/L		12/16/13 16:32	01/10/14 03:07	1
2,3,4,6,7,8-HxCDF	0.10	U	47	0.10	pg/L		12/16/13 16:32	01/10/14 03:07	1
1,2,3,4,6,7,8-HpCDD	**0.83**	**J B**	47	0.16	pg/L		12/16/13 16:32	01/10/14 03:07	1
1,2,3,4,6,7,8-HpCDF	**1.3**	**J q B**	47	0.12	pg/L		12/16/13 16:32	01/10/14 03:07	1
1,2,3,4,7,8,9-HpCDF	0.14	U	47	0.14	pg/L		12/16/13 16:32	01/10/14 03:07	1
OCDD	**7.6**	**J B**	95	0.17	pg/L		12/16/13 16:32	01/10/14 03:07	1
OCDF	**1.7**	**J q B**	95	0.17	pg/L		12/16/13 16:32	01/10/14 03:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	84		40 - 135	12/16/13 16:32	01/10/14 03:07	1
13C-2,3,7,8-TCDF	87		40 - 135	12/16/13 16:32	01/10/14 03:07	1
13C-1,2,3,7,8-PeCDD	86		40 - 135	12/16/13 16:32	01/10/14 03:07	1
13C-1,2,3,7,8-PeCDF	87		40 - 135	12/16/13 16:32	01/10/14 03:07	1

Client Sample ID: RINSATE
Date Collected: 12/05/13 12:30
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-11
Matrix: Water

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	90		40 - 135	12/16/13 16:32	01/10/14 03:07	1
13C-1,2,3,4,7,8-HxCDF	89		40 - 135	12/16/13 16:32	01/10/14 03:07	1
13C-1,2,3,4,6,7,8-HpCDD	88		40 - 135	12/16/13 16:32	01/10/14 03:07	1
13C-1,2,3,4,6,7,8-HpCDF	89		40 - 135	12/16/13 16:32	01/10/14 03:07	1
13C-OCDD	85		40 - 135	12/16/13 16:32	01/10/14 03:07	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	6.0	U	10	6.0	ug/L		01/03/14 17:29	01/08/14 13:47	1
Aluminum	80	U	200	80	ug/L		01/03/14 17:29	01/08/14 13:47	1
Barium	**12**	**J**	50	4.0	ug/L		01/03/14 17:29	01/08/14 13:47	1
Beryllium	0.61	U	5.0	0.61	ug/L		01/03/14 17:29	01/08/14 13:47	1
Calcium	**25000**		1000	110	ug/L		01/03/14 17:29	01/08/14 13:47	1
Cadmium	0.91	U	5.0	0.91	ug/L		01/03/14 17:29	01/08/14 13:47	1
Cobalt	4.9	U	50	4.9	ug/L		01/03/14 17:29	01/08/14 13:47	1
Chromium	3.1	U	10	3.1	ug/L		01/03/14 17:29	01/08/14 13:47	1
Copper	4.6	U	25	4.6	ug/L		01/03/14 17:29	01/08/14 13:47	1
Iron	**64**	**J**	100	28	ug/L		01/03/14 17:29	01/08/14 13:47	1
Potassium	**2800**	**J**	5000	1700	ug/L		01/03/14 17:29	01/08/14 13:47	1
Magnesium	**7500**		1000	130	ug/L		01/03/14 17:29	01/08/14 13:47	1
Manganese	**5.9**	**J**	15	3.3	ug/L		01/03/14 17:29	01/08/14 13:47	1
Sodium	**15000**		1000	320	ug/L		01/03/14 17:29	01/08/14 13:47	1
Nickel	13	U	40	13	ug/L		01/03/14 17:29	01/08/14 13:47	1
Lead	**2.7**	**J**	10	1.5	ug/L		01/03/14 17:29	01/08/14 13:47	1
Antimony	4.0	U	10	4.0	ug/L		01/03/14 17:29	01/08/14 13:47	1
Selenium	2.7	U	15	2.7	ug/L		01/03/14 17:29	01/08/14 13:47	1
Titanium	2.4	U	20	2.4	ug/L		01/03/14 17:29	01/08/14 13:47	1
Vanadium	4.1	U	50	4.1	ug/L		01/03/14 17:29	01/08/14 13:47	1
Zinc	**51**	**B**	20	5.2	ug/L		01/03/14 17:29	01/08/14 13:47	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		01/03/14 17:29	01/09/14 00:46	1
Niobium	2.2	U	25	2.2	ug/L		01/03/14 17:29	01/09/14 00:46	1
Thallium	0.55	U	2.0	0.55	ug/L		01/03/14 17:29	01/09/14 00:46	1
Uranium	0.23	U	1.0	0.23	ug/L		01/03/14 17:29	01/09/14 00:46	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		12/10/13 09:56	12/11/13 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.069**		0.020	0.0040	mg/L			12/06/13 13:37	1
Chloride	**4.7**		0.20	0.020	mg/L			12/06/13 13:37	1
Sulfate	**5.4**		0.50	0.050	mg/L			12/06/13 13:37	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	1.28	U	3.00	1.92	pCi/L		12/31/13 12:16	01/02/14 18:31	1
Gross Beta	**1.93**		4.00	0.984	pCi/L		12/31/13 12:16	01/02/14 18:31	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: RINSATE
Date Collected: 12/05/13 12:30
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-11
Matrix: Water

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	8.02	U		40.4	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Bismuth-212	0.000	U		177	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Bismuth-214	-8.71	U		32.6	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Bismuth-210M	-2.45	U		16.5	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Cesium-134	2.07	U		12.1	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Cesium-137	0.000	U		11.4	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Cobalt-57	-0.768	U		6.08	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Cobalt-60	0.848	U		17.0	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Lead-212	-5.65	U		19.6	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Lead-214	4.32	U		24.5	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Potassium-40	-59.7	U		217	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Protactinium-231	46.1	U		241	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Protactinium-234	0.914	U		34.4	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Radium-224	-95.3	U		238	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Thallium-208	0.178	U		13.1	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Thorium-227	-10.2	U		60.9	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Thorium-231	-2.39	U		67.2	pCi/L		12/23/13 17:56	01/11/14 04:32	1
Thorium-234	6.33	U		192	pCi/L		12/23/13 17:56	01/11/14 04:32	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.257		1.00	0.187	pCi/L		12/09/13 11:35	12/31/13 07:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*40 - 110*	*12/09/13 11:35*	*12/31/13 07:56*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.0386	U	1.00	0.479	pCi/L		12/09/13 11:40	12/30/13 11:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*40 - 110*	*12/09/13 11:40*	*12/30/13 11:01*	*1*
Y Carrier	*85.6*		*40 - 110*	*12/09/13 11:40*	*12/30/13 11:01*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.000	U	1.00	0.214	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-230	0.158	U	1.00	0.194	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-232	-0.00866	U	1.00	0.120	pCi/L		01/22/14 08:57	01/23/14 22:10	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*78.8*		*30 - 110*	*01/22/14 08:57*	*01/23/14 22:10*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
U-238	0.0592	U	1.00	0.117	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-235/236	0.0228	U	1.00	0.128	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-233/234	0.0593	U	1.00	0.117	pCi/L		01/09/14 09:41	01/16/14 23:39	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*84.4*		*30 - 110*	*01/09/14 09:41*	*01/16/14 23:39*	*1*

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

Lab Sample ID: MB 160-91108/1-A
Matrix: Water
Analysis Batch: 91425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Acenaphthylene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Anthracene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Benzo[a]anthracene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Benzo[b]fluoranthene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Benzo[k]fluoranthene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Benzo[g,h,i]perylene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Benzo[a]pyrene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Chrysene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Dibenz(a,h)anthracene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Fluoranthene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Fluorene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Indeno[1,2,3-cd]pyrene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Naphthalene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Phenanthrene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1
Pyrene	1.0	U	10	1.0	ug/L		12/11/13 11:45	12/11/13 18:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*51*		*10 - 74*	*12/11/13 11:45*	*12/11/13 18:14*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*47 - 103*	*12/11/13 11:45*	*12/11/13 18:14*	*1*
Nitrobenzene-d5 (Surr)	*63*		*31 - 105*	*12/11/13 11:45*	*12/11/13 18:14*	*1*
Phenol-d5 (Surr)	*35*		*10 - 50*	*12/11/13 11:45*	*12/11/13 18:14*	*1*
Terphenyl-d14 (Surr)	*85*		*68 - 116*	*12/11/13 11:45*	*12/11/13 18:14*	*1*
2-Fluorobiphenyl (Surr)	*61*		*30 - 99*	*12/11/13 11:45*	*12/11/13 18:14*	*1*

Lab Sample ID: LCS 160-91108/2-A
Matrix: Water
Analysis Batch: 91425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	100	86.6		ug/L		87	55 - 92
Acenaphthylene	100	88.0		ug/L		88	56 - 93
Anthracene	100	91.6		ug/L		92	60 - 93
Benzo[a]anthracene	100	96.0		ug/L		96	72 - 106
Benzo[b]fluoranthene	100	93.0		ug/L		93	67 - 103
Benzo[k]fluoranthene	100	97.0		ug/L		97	66 - 107
Benzo[g,h,i]perylene	100	91.5		ug/L		92	63 - 117
Benzo[a]pyrene	100	94.7	*	ug/L		95	62 - 94
Chrysene	100	88.5		ug/L		88	64 - 94
Dibenz(a,h)anthracene	100	93.8		ug/L		94	66 - 110
Fluoranthene	100	97.2	*	ug/L		97	63 - 93
Fluorene	100	88.8		ug/L		89	60 - 89
Indeno[1,2,3-cd]pyrene	100	93.1		ug/L		93	64 - 112
Naphthalene	100	79.2		ug/L		79	52 - 88
Phenanthrene	100	92.0		ug/L		92	60 - 93
Pyrene	100	91.2		ug/L		91	58 - 102

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

Lab Sample ID: LCS 160-91108/2-A
Matrix: Water
Analysis Batch: 91425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91108

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*60*		*10 - 74*
2,4,6-Tribromophenol (Surr)	*94*		*47 - 103*
Nitrobenzene-d5 (Surr)	*82*		*31 - 105*
Phenol-d5 (Surr)	*42*		*10 - 50*
Terphenyl-d14 (Surr)	*86*		*68 - 116*
2-Fluorobiphenyl (Surr)	*81*		*30 - 99*

Lab Sample ID: LCSD 160-91108/3-A
Matrix: Water
Analysis Batch: 91425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91108

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			100	87.2		ug/L		87	55 - 92	1	20
Acenaphthylene			100	88.6		ug/L		89	56 - 93	1	20
Anthracene			100	92.7		ug/L		93	60 - 93	1	20
Benzo[a]anthracene			100	98.9		ug/L		99	72 - 106	3	20
Benzo[b]fluoranthene			100	97.5		ug/L		97	67 - 103	5	20
Benzo[k]fluoranthene			100	97.4		ug/L		97	66 - 107	0	20
Benzo[g,h,i]perylene			100	94.8		ug/L		95	63 - 117	4	20
Benzo[a]pyrene			100	97.7	*	ug/L		98	62 - 94	3	20
Chrysene			100	92.0		ug/L		92	64 - 94	4	20
Dibenz(a,h)anthracene			100	95.9		ug/L		96	66 - 110	2	20
Fluoranthene			100	98.9	*	ug/L		99	63 - 93	2	20
Fluorene			100	90.4	*	ug/L		90	60 - 89	2	20
Indeno[1,2,3-cd]pyrene			100	94.0		ug/L		94	64 - 112	1	20
Naphthalene			100	78.7		ug/L		79	52 - 88	1	20
Phenanthrene			100	94.3	*	ug/L		94	60 - 93	2	20
Pyrene			100	93.2		ug/L		93	58 - 102	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*64*		*10 - 74*
2,4,6-Tribromophenol (Surr)	*97*		*47 - 103*
Nitrobenzene-d5 (Surr)	*81*		*31 - 105*
Phenol-d5 (Surr)	*45*		*10 - 50*
Terphenyl-d14 (Surr)	*85*		*68 - 116*
2-Fluorobiphenyl (Surr)	*80*		*30 - 99*

Lab Sample ID: MB 160-92812/1-A
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Acenaphthylene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Anthracene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[a]anthracene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[b]fluoranthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[k]fluoranthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1

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

Lab Sample ID: MB 160-92812/1-A
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[a]pyrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Chrysene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Dibenz(a,h)anthracene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Fluoranthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Fluorene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Indeno[1,2,3-cd]pyrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Naphthalene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Phenanthrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Pyrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*86*		*53 - 97*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*46 - 111*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
Nitrobenzene-d5 (Surr)	*78*		*55 - 98*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
Phenol-d5 (Surr)	*82*		*54 - 101*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
Terphenyl-d14 (Surr)	*78*		*58 - 123*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
2-Fluorobiphenyl (Surr)	*78*		*56 - 97*	*12/18/13 11:29*	*12/18/13 20:31*	*1*

Lab Sample ID: LCS 160-92812/2-A
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	3330	2730		ug/Kg		82	63 - 95
Acenaphthylene	3330	2820		ug/Kg		85	62 - 98
Anthracene	3330	2750		ug/Kg		83	63 - 100
Benzo[a]anthracene	3330	2970		ug/Kg		89	74 - 114
Benzo[b]fluoranthene	3330	2940		ug/Kg		88	68 - 109
Benzo[k]fluoranthene	3330	2800		ug/Kg		84	69 - 111
Benzo[g,h,i]perylene	3330	2820		ug/Kg		84	67 - 121
Benzo[a]pyrene	3330	2930		ug/Kg		88	63 - 103
Chrysene	3330	2750		ug/Kg		83	66 - 100
Dibenz(a,h)anthracene	3330	2880		ug/Kg		86	67 - 114
Fluoranthene	3330	2840		ug/Kg		85	63 - 101
Fluorene	3330	2700		ug/Kg		81	62 - 96
Indeno[1,2,3-cd]pyrene	3330	2870		ug/Kg		86	65 - 120
Naphthalene	3330	2540		ug/Kg		76	60 - 90
Phenanthrene	3330	2760		ug/Kg		83	63 - 99
Pyrene	3330	2890		ug/Kg		87	64 - 102

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*82*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*80*		*46 - 111*
Nitrobenzene-d5 (Surr)	*76*		*55 - 98*
Phenol-d5 (Surr)	*80*		*54 - 101*
Terphenyl-d14 (Surr)	*77*		*58 - 123*

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

Lab Sample ID: LCS 160-92812/2-A
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92812

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*56 - 97*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.60	U	200	0.60	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-2	0.62	U	200	0.62	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-3	0.65	U	200	0.65	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-4	26	U	200	26	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-5	22	U	200	22	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-6	22	U	200	22	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-7	21	U	200	21	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-8	22	U	200	22	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-9	24	U	200	24	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-10	18	U	200	18	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-11	23	U	200	23	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-12/13	23	U	400	23	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-14	19	U	200	19	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-15	25	U	200	25	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-16	3.8	U	200	3.8	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-17	2.7	U	200	2.7	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-18/30	2.3	U	400	2.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-19	3.0	U	200	3.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-20/28	3.44	J	400	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-21/33	1.3	U	400	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-22	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-23	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-24	2.0	U	200	2.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-25	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-26/29	1.3	U	400	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-27	2.0	U	200	2.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-31	3.25	J	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-32	1.6	U	200	1.6	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-34	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-35	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-36	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-37	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-38	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-39	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-40/71	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-41	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-42	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-43	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-44/47/65	6.47	J	600	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-45	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-46	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-48	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-49/69	2.79	J	400	0.96	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-50/53	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-51	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-52	8.37	J	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-54	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-55	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-56	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-57	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-58	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-59/62/75	0.84	U	600	0.84	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-60	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-61/70/74/76	1.1	U	800	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-63	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-64	0.79	U	200	0.79	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-66	2.63	J q	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-67	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-68	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-72	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-73	0.90	U	200	0.90	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-77	1.6	U	20	1.6	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-78	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-79	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-80	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-81	1.5	U	20	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-82	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-83	1.6	U	200	1.6	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-84	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-85/116/117	0.98	U	600	0.98	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-86/87/97/108/119/125	1.0	U	1200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-88/91	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-89	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-90/101/113	3.38	J q	600	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-92	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-93/100	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-107/124	0.93	U	400	0.93	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-94	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-95	3.67	J q	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-96	0.52	U	200	0.52	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-98/102	1.0	U	400	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-99	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-103	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-104	0.49	U	200	0.49	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-105	1.1	U	20	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-106	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-110/115	4.25	J q	400	0.90	pg/L		12/17/13 10:53	01/14/14 16:21	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-109	0.86	U	200	0.86	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-111	0.82	U	200	0.82	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-112	0.79	U	200	0.79	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-114	1.0	U	20	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-115	4.25	J q	400	0.90	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-118	3.82	J	20	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-120	0.87	U	200	0.87	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-121	0.82	U	200	0.82	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-122	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-123	0.99	U	20	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-126	1.3	U	20	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-127	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-128/166	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-129/138/163	2.65	J q	600	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-130	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-131	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-132	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-133	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-134/143	1.3	U	400	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-135/151	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-136	0.83	U	200	0.83	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-137	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-139/140	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-141	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-142	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-144	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-145	0.80	U	200	0.80	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-146	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-147/149	2.64	J	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-148	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-150	0.75	U	200	0.75	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-152	0.76	U	200	0.76	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-153/168	1.43	J q	400	0.93	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-154	0.99	U	200	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-155	0.74	U	200	0.74	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-156/157	1.2	U	40	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-158	0.85	U	200	0.85	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-159	0.93	U	200	0.93	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-160	0.98	U	200	0.98	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-161	0.86	U	200	0.86	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-162	0.90	U	200	0.90	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-164	0.95	U	200	0.95	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-165	0.99	U	200	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-167	0.84	U	20	0.84	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-169	1.3	U	20	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-170	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-171/173	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-172	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-174	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-175	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-176	0.76	U	200	0.76	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-177	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-178	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-179	0.82	U	200	0.82	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-180/193	0.89	U	400	0.89	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-181	0.91	U	200	0.91	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-182	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-183	0.82	U	200	0.82	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-184	0.84	U	200	0.84	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-185	0.99	U	200	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-186	0.80	U	200	0.80	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-187	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-188	0.75	U	200	0.75	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-189	1.8	U	20	1.8	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-190	0.83	U	200	0.83	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-191	0.80	U	200	0.80	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-192	0.83	U	200	0.83	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-194	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-195	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-196	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-197	0.76	U	200	0.76	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-198/199	1.2	U	400	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-200	0.77	U	200	0.77	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-201	0.76	U	200	0.76	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-202	0.79	U	200	0.79	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-203	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-204	0.80	U	200	0.80	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-205	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-206	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-207	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-208	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-209	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*71*		*5 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-15L	*80*		*5 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-123L	*81*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-114L	*80*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-3L	*66*		*5 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-118L	*81*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-126L	*78*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-202L	*102*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-169L	*73*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-206L	*81*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-37L	*75*		*5 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-19L	*80*		*5 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-188L	96		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-54L	71		5 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-156L/157L	79		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-167L	80		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-209L	75		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-189L	82		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-105L	81		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-208L	95		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-1L	60		5 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-104L	71		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-81L	77		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-77L	79		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-205L	84		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-155L	72		10 - 145	12/17/13 10:53	01/14/14 16:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	76		5 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-111L	83		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-178L	88		10 - 145	12/17/13 10:53	01/14/14 16:21	1

Lab Sample ID: LCS 320-32034/2-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	2000	1980		pg/L		99	60 - 135
PCB-3	2000	2020		pg/L		101	60 - 135
PCB-4	2000	2050		pg/L		103	60 - 135
PCB-15	2000	1970		pg/L		99	60 - 135
PCB-19	2000	2030		pg/L		102	60 - 135
PCB-37	2000	2040		pg/L		102	60 - 135
PCB-54	2000	2030		pg/L		102	60 - 135
PCB-77	2000	2000		pg/L		100	60 - 135
PCB-81	2000	2020		pg/L		101	60 - 135
PCB-104	2000	2070		pg/L		103	60 - 135
PCB-105	2000	2100		pg/L		105	60 - 135
PCB-114	2000	2040		pg/L		102	60 - 135
PCB-118	2000	2090		pg/L		105	60 - 135
PCB-123	2000	2020		pg/L		101	60 - 135
PCB-126	2000	2080		pg/L		104	60 - 135
PCB-155	2000	2080		pg/L		104	60 - 135
PCB-156/157	4000	4050		pg/L		101	60 - 135
PCB-167	2000	2010		pg/L		100	60 - 135
PCB-169	2000	2080		pg/L		104	60 - 135
PCB-188	2000	2080		pg/L		104	60 - 135
PCB-189	2000	2140		pg/L		107	60 - 135
PCB-202	2000	2130		pg/L		107	60 - 135
PCB-205	2000	1990		pg/L		99	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32034/2-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32034

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-206			2000	2050		pg/L		102	60 - 135		
PCB-208			2000	2020		pg/L		101	60 - 135		
PCB-209			2000	2000		pg/L		100	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*59*		*15 - 145*
PCB-15L	*71*		*15 - 145*
PCB-123L	*79*		*40 - 145*
PCB-114L	*78*		*40 - 145*
PCB-3L	*57*		*15 - 145*
PCB-118L	*79*		*40 - 145*
PCB-126L	*76*		*40 - 145*
PCB-202L	*99*		*40 - 145*
PCB-169L	*71*		*40 - 145*
PCB-206L	*79*		*40 - 145*
PCB-37L	*69*		*15 - 145*
PCB-19L	*67*		*15 - 145*
PCB-188L	*95*		*40 - 145*
PCB-54L	*63*		*15 - 145*
PCB-156L/157L	*77*		*40 - 145*
PCB-167L	*77*		*40 - 145*
PCB-209L	*73*		*40 - 145*
PCB-189L	*79*		*40 - 145*
PCB-105L	*78*		*40 - 145*
PCB-208L	*92*		*40 - 145*
PCB-1L	*49*		*15 - 145*
PCB-104L	*66*		*40 - 145*
PCB-81L	*76*		*40 - 145*
PCB-77L	*75*		*40 - 145*
PCB-205L	*82*		*40 - 145*
PCB-155L	*71*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*73*		*5 - 145*
PCB-111L	*80*		*10 - 145*
PCB-178L	*84*		*10 - 145*

Lab Sample ID: MB 320-33078/1-A
Matrix: Solid
Analysis Batch: 35731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33078

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	16.6	J	20	0.22	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-2	4.64	J	20	0.22	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-3	2.65	J	20	0.22	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-4	8.3	U	20	8.3	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-5	4.2	U	20	4.2	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-6	4.2	U	20	4.2	pg/g		01/02/14 14:13	02/06/14 12:32	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33078/1-A
Matrix: Solid
Analysis Batch: 35731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33078

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-7	3.9	U	20	3.9	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-8	4.1	U	20	4.1	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-9	4.5	U	20	4.5	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-10	4.7	U	20	4.7	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-11	6.35	J	20	4.4	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-12/13	4.4	U	40	4.4	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-14	3.7	U	20	3.7	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-15	4.2	U	20	4.2	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-16	0.937	J	20	0.56	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-17	0.40	U	20	0.40	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-18/30	1.35	J q	40	0.34	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-19	0.50	U	20	0.50	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-20/28	1.46	J q	40	0.33	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-21/33	0.892	J q	40	0.31	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-22	0.614	J	20	0.35	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-23	0.30	U	20	0.30	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-24	0.29	U	20	0.29	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-25	0.31	U	20	0.31	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-26/29	0.31	U	40	0.31	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-27	0.30	U	20	0.30	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-31	1.67	J	20	0.31	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-32	0.23	U	20	0.23	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-34	0.31	U	20	0.31	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-35	0.36	U	20	0.36	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-36	0.32	U	20	0.32	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-37	0.39	U	20	0.39	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-38	0.34	U	20	0.34	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-39	0.32	U	20	0.32	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-40/71	0.527	J	40	0.24	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-41	0.31	U	20	0.31	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-42	0.26	U	20	0.26	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-43	0.27	U	20	0.27	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-44/47/65	4.59	J	60	0.22	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-45	0.26	U	20	0.26	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-46	0.28	U	20	0.28	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-48	0.24	U	20	0.24	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-49/69	0.333	J q	40	0.20	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-50/53	0.22	U	40	0.22	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-51	0.498	J	20	0.22	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-52	1.95	J	20	0.25	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-54	0.29	U	20	0.29	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-55	0.27	U	20	0.27	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-56	0.30	U	20	0.30	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-57	0.27	U	20	0.27	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-58	0.27	U	20	0.27	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-59/62/75	0.17	U	60	0.17	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-60	0.29	U	20	0.29	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-61/70/74/76	1.70	J q	80	0.27	pg/g		01/02/14 14:13	02/06/14 12:32	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33078/1-A
Matrix: Solid
Analysis Batch: 35731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33078

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-63	0.25	U	20	0.25	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-64	0.300	J q	20	0.16	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-66	0.825	J q	20	0.30	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-67	0.25	U	20	0.25	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-68	0.404	J q	20	0.24	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-72	0.26	U	20	0.26	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-73	0.19	U	20	0.19	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-77	0.35	U	2.0	0.35	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-78	0.31	U	20	0.31	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-79	0.27	U	20	0.27	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-80	0.25	U	20	0.25	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-81	0.34	U	2.0	0.34	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-82	0.53	U	20	0.53	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-83	0.58	U	20	0.58	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-84	0.48	U	20	0.48	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-85/116/117	0.36	U	60	0.36	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-86/87/97/108/119/125	1.10	J q	120	0.37	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-88/91	0.41	U	40	0.41	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-89	0.46	U	20	0.46	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-90/101/113	1.77	J	60	0.37	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-92	0.43	U	20	0.43	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-93/100	0.41	U	40	0.41	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-107/124	0.34	U	40	0.34	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-94	0.43	U	20	0.43	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-95	1.33	J	20	0.40	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-96	0.22	U	20	0.22	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-98/102	0.38	U	40	0.38	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-99	0.481	J q	20	0.43	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-103	0.38	U	20	0.38	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-104	0.21	U	20	0.21	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-105	0.39	U	2.0	0.39	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-106	0.37	U	20	0.37	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-110/115	1.66	J	40	0.33	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-109	0.31	U	20	0.31	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-111	0.30	U	20	0.30	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-112	0.29	U	20	0.29	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-114	0.38	U	2.0	0.38	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-115	1.66	J	40	0.33	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-118	1.21	J	2.0	0.35	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-120	0.32	U	20	0.32	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-121	0.30	U	20	0.30	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-122	0.37	U	20	0.37	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-123	0.36	U	2.0	0.36	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-126	0.42	U	2.0	0.42	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-127	0.37	U	20	0.37	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-128/166	0.33	U	40	0.33	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-129/138/163	0.940	J	60	0.34	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-130	0.44	U	20	0.44	pg/g		01/02/14 14:13	02/06/14 12:32	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33078/1-A
Matrix: Solid
Analysis Batch: 35731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33078

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-131	0.42	U	20	0.42	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-132	0.39	U	20	0.39	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-133	0.39	U	20	0.39	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-134/143	0.39	U	40	0.39	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-135/151	0.35	U	40	0.35	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-136	0.25	U	20	0.25	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-137	0.34	U	20	0.34	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-139/140	0.33	U	40	0.33	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-141	0.37	U	20	0.37	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-142	0.38	U	20	0.38	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-144	0.34	U	20	0.34	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-145	0.25	U	20	0.25	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-146	0.37	U	20	0.37	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-147/149	0.569	J q	40	0.34	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-148	0.34	U	20	0.34	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-150	0.23	U	20	0.23	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-152	0.24	U	20	0.24	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-153/168	0.627	J q	40	0.29	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-154	0.30	U	20	0.30	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-155	0.27	U	20	0.27	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-156/157	0.30	U	4.0	0.30	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-158	0.26	U	20	0.26	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-159	0.25	U	20	0.25	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-160	0.30	U	20	0.30	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-161	0.26	U	20	0.26	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-162	0.24	U	20	0.24	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-164	0.29	U	20	0.29	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-165	0.30	U	20	0.30	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-167	0.24	U	2.0	0.24	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-169	0.27	U	2.0	0.27	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-170	0.26	U	20	0.26	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-171/173	0.24	U	40	0.24	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-172	0.25	U	20	0.25	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-174	0.24	U	20	0.24	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-175	0.42	U	20	0.42	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-176	0.28	U	20	0.28	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-177	0.24	U	20	0.24	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-178	0.44	U	20	0.44	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-179	0.31	U	20	0.31	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-180/193	0.20	U	40	0.20	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-181	0.20	U	20	0.20	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-182	0.39	U	20	0.39	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-183	0.19	U	20	0.19	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-184	0.32	U	20	0.32	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-185	0.22	U	20	0.22	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-186	0.30	U	20	0.30	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-187	0.41	U	20	0.41	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-188	0.34	U	20	0.34	pg/g		01/02/14 14:13	02/06/14 12:32	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33078/1-A
Matrix: Solid
Analysis Batch: 35731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33078

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-189	0.35	U	2.0	0.35	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-190	0.18	U	20	0.18	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-191	0.18	U	20	0.18	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-192	0.18	U	20	0.18	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-194	0.33	U	20	0.33	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-195	0.30	U	20	0.30	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-196	0.36	U	20	0.36	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-197	0.24	U	20	0.24	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-198/199	0.38	U	40	0.38	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-200	0.25	U	20	0.25	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-201	0.24	U	20	0.24	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-202	0.32	U	20	0.32	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-203	0.34	U	20	0.34	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-204	0.25	U	20	0.25	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-205	0.21	U	20	0.21	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-206	0.31	U	20	0.31	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-207	0.24	U	20	0.24	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-208	0.30	U	20	0.30	pg/g		01/02/14 14:13	02/06/14 12:32	1
PCB-209	0.537	J q	20	0.24	pg/g		01/02/14 14:13	02/06/14 12:32	1
Total Monochlorobiphenyls	23.9	J	200	0.22	pg/g		01/02/14 14:13	02/06/14 12:32	1
Total Dichlorobiphenyls	6.35	J	200	4.6	pg/g		01/02/14 14:13	02/06/14 12:32	1
Total Trichlorobiphenyls	6.93	J q	200	0.34	pg/g		01/02/14 14:13	02/06/14 12:32	1
Total Tetrachlorobiphenyls	11.1	J q	200	0.26	pg/g		01/02/14 14:13	02/06/14 12:32	1
Total Pentachlorobiphenyls	7.54	J q	200	0.38	pg/g		01/02/14 14:13	02/06/14 12:32	1
Total Hexachlorobiphenyls	2.14	J q	200	0.32	pg/g		01/02/14 14:13	02/06/14 12:32	1
Total Heptachlorobiphenyls	0.44	U	200	0.44	pg/g		01/02/14 14:13	02/06/14 12:32	1
Total Octachlorobiphenyls	0.38	U	200	0.38	pg/g		01/02/14 14:13	02/06/14 12:32	1
Total Nonachlorobiphenyls	0.31	U	200	0.31	pg/g		01/02/14 14:13	02/06/14 12:32	1
Polychlorinated biphenyls, Total	58.5	J q	200	0.75	pg/g		01/02/14 14:13	02/06/14 12:32	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*37*		*5 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-15L	*53*		*5 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-123L	*61*		*10 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-114L	*60*		*10 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-3L	*42*		*5 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-118L	*61*		*10 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-126L	*67*		*10 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-202L	*60*		*10 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-169L	*88*		*10 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-206L	*75*		*10 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-37L	*59*		*5 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-19L	*47*		*5 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-188L	*50*		*10 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-54L	*47*		*5 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-156L/157L	*76*		*10 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-167L	*73*		*10 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*
PCB-209L	*69*		*10 - 145*	*01/02/14 14:13*	*02/06/14 12:32*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33078/1-A
Matrix: Solid
Analysis Batch: 35731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33078

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-189L	68		10 - 145	01/02/14 14:13	02/06/14 12:32	1
PCB-105L	63		10 - 145	01/02/14 14:13	02/06/14 12:32	1
PCB-208L	70		10 - 145	01/02/14 14:13	02/06/14 12:32	1
PCB-1L	31		5 - 145	01/02/14 14:13	02/06/14 12:32	1
PCB-104L	50		10 - 145	01/02/14 14:13	02/06/14 12:32	1
PCB-81L	62		10 - 145	01/02/14 14:13	02/06/14 12:32	1
PCB-77L	62		10 - 145	01/02/14 14:13	02/06/14 12:32	1
PCB-205L	73		10 - 145	01/02/14 14:13	02/06/14 12:32	1
PCB-155L	55		10 - 145	01/02/14 14:13	02/06/14 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	73		5 - 145	01/02/14 14:13	02/06/14 12:32	1
PCB-111L	76		10 - 145	01/02/14 14:13	02/06/14 12:32	1
PCB-178L	91		10 - 145	01/02/14 14:13	02/06/14 12:32	1

Lab Sample ID: LCS 320-33078/2-A
Matrix: Solid
Analysis Batch: 35731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	223		pg/g		111	60 - 135
PCB-3	200	222		pg/g		111	60 - 135
PCB-4	200	227		pg/g		113	60 - 135
PCB-15	200	217		pg/g		108	60 - 135
PCB-19	200	218		pg/g		109	60 - 135
PCB-37	200	225		pg/g		112	60 - 135
PCB-54	200	221		pg/g		111	60 - 135
PCB-77	200	217		pg/g		109	60 - 135
PCB-81	200	219		pg/g		109	60 - 135
PCB-104	200	237		pg/g		119	60 - 135
PCB-105	200	228		pg/g		114	60 - 135
PCB-114	200	229		pg/g		114	60 - 135
PCB-118	200	234		pg/g		117	60 - 135
PCB-123	200	224		pg/g		112	60 - 135
PCB-126	200	226		pg/g		113	60 - 135
PCB-155	200	224		pg/g		112	60 - 135
PCB-156/157	400	455		pg/g		114	60 - 135
PCB-167	200	223		pg/g		112	60 - 135
PCB-169	200	216		pg/g		108	60 - 135
PCB-188	200	213		pg/g		106	60 - 135
PCB-189	200	224		pg/g		112	60 - 135
PCB-202	200	229		pg/g		114	60 - 135
PCB-205	200	217		pg/g		108	60 - 135
PCB-206	200	225		pg/g		113	60 - 135
PCB-208	200	217		pg/g		108	60 - 135
PCB-209	200	218		pg/g		109	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-33078/2-A
Matrix: Solid
Analysis Batch: 35731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33078

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-4L	39		15 - 145
PCB-15L	53		15 - 145
PCB-123L	61		40 - 145
PCB-114L	60		40 - 145
PCB-3L	44		15 - 145
PCB-118L	61		40 - 145
PCB-126L	67		40 - 145
PCB-202L	56		40 - 145
PCB-169L	94		40 - 145
PCB-206L	81		40 - 145
PCB-37L	57		15 - 145
PCB-19L	46		15 - 145
PCB-188L	48		40 - 145
PCB-54L	40	q	15 - 145
PCB-156L/157L	78		40 - 145
PCB-167L	75		40 - 145
PCB-209L	74		40 - 145
PCB-189L	78		40 - 145
PCB-105L	63		40 - 145
PCB-208L	77		40 - 145
PCB-1L	34		15 - 145
PCB-104L	44		40 - 145
PCB-81L	61		40 - 145
PCB-77L	62		40 - 145
PCB-205L	82		40 - 145
PCB-155L	51		40 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
PCB-28L	57		5 - 145
PCB-111L	60		10 - 145
PCB-178L	69		10 - 145

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	1.67	J	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-2	0.25	U	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-3	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-4	17	U	20	17	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-5	3.5	U	20	3.5	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-6	3.5	U	20	3.5	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-7	3.2	U	20	3.2	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-8	3.4	U	20	3.4	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-9	3.7	U	20	3.7	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-10	10	U	20	10	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-11	3.6	U	20	3.6	pg/g		01/09/14 14:14	02/04/14 15:59	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-12/13	3.6	U	40	3.6	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-14	3.0	U	20	3.0	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-15	3.5	U	20	3.5	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-16	0.80	U	20	0.80	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-17	0.910	J	20	0.56	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-18/30	1.37	J	40	0.48	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-19	0.66	U	20	0.66	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-20/28	2.03	J	40	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-21/33	1.14	J	40	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-22	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-23	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-24	0.41	U	20	0.41	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-25	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-26/29	0.33	U	40	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-27	0.42	U	20	0.42	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-31	1.81	J	20	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-32	0.32	U	20	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-34	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-35	0.38	U	20	0.38	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-36	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-37	0.43	U	20	0.43	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-38	0.36	U	20	0.36	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-39	0.34	U	20	0.34	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-40/71	0.524	J q	40	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-41	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-42	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-43	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-44/47/65	1.76	J q	60	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-45	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-46	0.32	U	20	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-48	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-49/69	1.07	J	40	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-50/53	0.25	U	40	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-51	0.25	U	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-52	1.68	J	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-54	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-55	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-56	0.34	U	20	0.34	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-57	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-58	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-59/62/75	0.20	U	60	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-60	0.32	U	20	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-61/70/74/76	1.37	J	80	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-63	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-64	0.480	J	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-66	0.615	J	20	0.34	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-67	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-68	0.27	U	20	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-72	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-73	0.21	U	20	0.21	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-77	0.39	U	2.0	0.39	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-78	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-79	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-80	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-81	0.38	U	2.0	0.38	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-82	0.44	U	20	0.44	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-83	0.47	U	20	0.47	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-84	0.40	U	20	0.40	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-85/116/117	0.29	U	60	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-86/87/97/108/119/125	0.30	U	120	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-88/91	0.33	U	40	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-89	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-90/101/113	0.946	J	60	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-92	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-93/100	0.34	U	40	0.34	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-107/124	0.28	U	40	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-94	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-95	0.809	J	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-96	0.18	U	20	0.18	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-98/102	0.31	U	40	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-99	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-103	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-104	0.19	U	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-105	0.31	U	2.0	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-106	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-110/115	0.870	J	40	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-109	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-111	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-112	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-114	0.30	U	2.0	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-115	0.870	J	40	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-118	0.624	J q	2.0	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-120	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-121	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-122	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-123	0.29	U	2.0	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-126	0.33	U	2.0	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-127	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-128/166	0.31	U	40	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-129/138/163	0.783	J	60	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-130	0.42	U	20	0.42	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-131	0.40	U	20	0.40	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-132	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-133	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-134/143	0.38	U	40	0.38	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-135/151	0.33	U	40	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-136	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-137	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-139/140	0.32	U	40	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-141	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-142	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-144	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-145	0.23	U	20	0.23	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-146	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-147/149	0.33	U	40	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-148	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-150	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-152	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-153/168	0.27	U	40	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-154	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-155	0.27	U	20	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-156/157	0.24	U	4.0	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-158	0.25	U	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-159	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-160	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-161	0.25	U	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-162	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-164	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-165	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-167	0.19	U	2.0	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-169	0.22	U	2.0	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-170	0.21	U	20	0.21	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-171/173	0.19	U	40	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-172	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-174	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-175	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-176	0.19	U	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-177	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-178	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-179	0.21	U	20	0.21	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-180/193	0.16	U	40	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-181	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-182	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-183	0.15	U	20	0.15	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-184	0.21	U	20	0.21	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-185	0.18	U	20	0.18	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-186	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-187	0.27	U	20	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-188	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-189	0.28	U	2.0	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-190	0.15	U	20	0.15	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-191	0.14	U	20	0.14	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-192	0.15	U	20	0.15	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-194	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-195	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-196	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-197	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-198/199	0.25	U	40	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-200	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-201	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-202	0.19	U	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-203	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-204	0.17	U	20	0.17	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-205	0.19	U	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-206	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-207	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-208	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-209	0.875	J	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Monochlorobiphenyls	1.67	J	200	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Dichlorobiphenyls	17	U	200	17	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Trichlorobiphenyls	7.25	J	200	0.41	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Tetrachlorobiphenyls	7.50	J q	200	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Pentachlorobiphenyls	3.25	J q	200	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Hexachlorobiphenyls	0.783	J	200	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Heptachlorobiphenyls	0.30	U	200	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Octachlorobiphenyls	0.28	U	200	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Nonachlorobiphenyls	0.22	U	200	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
Polychlorinated biphenyls, Total	21.3	J q	200	2.0	pg/g		01/09/14 14:14	02/04/14 15:59	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*43*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-15L	*55*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-123L	*63*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-114L	*62*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-3L	*47*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-118L	*62*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-126L	*69*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-202L	*74*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-169L	*74*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-206L	*90*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-37L	*52*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-19L	*55*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-188L	*61*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-54L	*44*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-156L/157L	*70*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-167L	*67*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-209L	*81*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-189L	*73*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-105L	*65*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-208L	*87*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-1L	*38*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-104L	*48*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-81L	59		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-77L	59		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-205L	83		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-155L	49		10 - 145	01/09/14 14:14	02/04/14 15:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	50		5 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-111L	58		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-178L	68		10 - 145	01/09/14 14:14	02/04/14 15:59	1

Lab Sample ID: LCS 320-33530/2-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	224		pg/g		112	60 - 135
PCB-3	200	213		pg/g		106	60 - 135
PCB-4	200	217		pg/g		109	60 - 135
PCB-15	200	223		pg/g		112	60 - 135
PCB-19	200	198		pg/g		99	60 - 135
PCB-37	200	228		pg/g		114	60 - 135
PCB-54	200	225		pg/g		113	60 - 135
PCB-77	200	238		pg/g		119	60 - 135
PCB-81	200	235		pg/g		117	60 - 135
PCB-104	200	227		pg/g		114	60 - 135
PCB-105	200	237		pg/g		119	60 - 135
PCB-114	200	226		pg/g		113	60 - 135
PCB-118	200	237		pg/g		119	60 - 135
PCB-123	200	225		pg/g		112	60 - 135
PCB-126	200	235		pg/g		117	60 - 135
PCB-155	200	228		pg/g		114	60 - 135
PCB-156/157	400	455		pg/g		114	60 - 135
PCB-167	200	227		pg/g		113	60 - 135
PCB-169	200	233		pg/g		117	60 - 135
PCB-188	200	230		pg/g		115	60 - 135
PCB-189	200	242		pg/g		121	60 - 135
PCB-202	200	248		pg/g		124	60 - 135
PCB-205	200	221		pg/g		111	60 - 135
PCB-206	200	231		pg/g		115	60 - 135
PCB-208	200	227		pg/g		114	60 - 135
PCB-209	200	229		pg/g		115	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-4L	39		15 - 145
PCB-15L	44		15 - 145
PCB-123L	47		40 - 145
PCB-114L	47		40 - 145
PCB-3L	42		15 - 145

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-33530/2-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33530

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-118L	47		40 - 145
PCB-126L	50		40 - 145
PCB-202L	56		40 - 145
PCB-169L	61		40 - 145
PCB-206L	70		40 - 145
PCB-37L	41		15 - 145
PCB-19L	46		15 - 145
PCB-188L	47		40 - 145
PCB-54L	35		15 - 145
PCB-156L/157L	57		40 - 145
PCB-167L	54		40 - 145
PCB-209L	65		40 - 145
PCB-189L	58		40 - 145
PCB-105L	48		40 - 145
PCB-208L	68		40 - 145
PCB-1L	36		15 - 145
PCB-104L	37	*	40 - 145
PCB-81L	43		40 - 145
PCB-77L	43		40 - 145
PCB-205L	66		40 - 145
PCB-155L	40		40 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
PCB-28L	47		5 - 145
PCB-111L	56		10 - 145
PCB-178L	69		10 - 145

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-31992/1-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31992

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.15	U	10	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1
2,3,7,8-TCDF	0.250	J	10	0.11	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8-PeCDD	0.22	U	50	0.22	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8-PeCDF	0.15	U	50	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1
2,3,4,7,8-PeCDF	0.15	U	50	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8-HxCDD	0.18	U	50	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,6,7,8-HxCDD	0.12	U	50	0.12	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8,9-HxCDD	0.11	U	50	0.11	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8-HxCDF	0.956	J q	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,6,7,8-HxCDF	0.12	U	50	0.12	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8,9-HxCDF	0.14	U	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
2,3,4,6,7,8-HxCDF	0.13	U	50	0.13	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,6,7,8-HpCDD	1.39	J	50	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,6,7,8-HpCDF	2.65	J	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31992/1-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31992

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8,9-HpCDF	0.17	U	50	0.17	pg/L		12/16/13 16:32	01/10/14 00:48	1
OCDD	10.1	J	100	0.20	pg/L		12/16/13 16:32	01/10/14 00:48	1
OCDF	4.14	J q	100	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*85*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,7,8-PeCDD	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,6,7,8-HxCDD	*93*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-2,3,7,8-TCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*86*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,7,8-HxCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-OCDD	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*

Lab Sample ID: LCS 320-31992/2-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	218		pg/L		109	64 - 142
2,3,7,8-TCDF	200	221		pg/L		111	71 - 142
1,2,3,7,8-PeCDD	1000	1090		pg/L		109	71 - 140
1,2,3,7,8-PeCDF	1000	1130		pg/L		113	76 - 135
2,3,4,7,8-PeCDF	1000	1110		pg/L		111	74 - 137
1,2,3,4,7,8-HxCDD	1000	1040		pg/L		104	56 - 146
1,2,3,6,7,8-HxCDD	1000	1150		pg/L		115	73 - 144
1,2,3,7,8,9-HxCDD	1000	1080		pg/L		108	71 - 151
1,2,3,4,7,8-HxCDF	1000	1190		pg/L		119	75 - 131
1,2,3,6,7,8-HxCDF	1000	1200		pg/L		120	76 - 133
1,2,3,7,8,9-HxCDF	1000	1150		pg/L		115	77 - 142
2,3,4,6,7,8-HxCDF	1000	1230		pg/L		123	80 - 137
1,2,3,4,6,7,8-HpCDD	1000	1070		pg/L		107	78 - 139
1,2,3,4,6,7,8-HpCDF	1000	1100		pg/L		110	79 - 133
1,2,3,4,7,8,9-HpCDF	1000	1060		pg/L		106	83 - 130
OCDD	2000	2080		pg/L		104	80 - 132
OCDF	2000	1960		pg/L		98	72 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*86*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*89*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*89*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*91*		*40 - 135*
13C-2,3,7,8-TCDF	*88*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*90*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*91*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*87*		*40 - 135*
13C-OCDD	*93*		*40 - 135*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33065/1-A
Matrix: Solid
Analysis Batch: 34511

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33065

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.096	U	1.0	0.096	pg/g		01/02/14 13:23	01/08/14 14:10	1
2,3,7,8-TCDF	0.076	U	1.0	0.076	pg/g		01/02/14 13:23	01/08/14 14:10	1
1,2,3,7,8-PeCDD	0.12	U	5.0	0.12	pg/g		01/02/14 13:23	01/08/14 14:10	1
1,2,3,7,8-PeCDF	0.13	U	5.0	0.13	pg/g		01/02/14 13:23	01/08/14 14:10	1
2,3,4,7,8-PeCDF	0.14	U	5.0	0.14	pg/g		01/02/14 13:23	01/08/14 14:10	1
1,2,3,4,7,8-HxCDD	0.055	U	5.0	0.055	pg/g		01/02/14 13:23	01/08/14 14:10	1
1,2,3,6,7,8-HxCDD	0.054	U	5.0	0.054	pg/g		01/02/14 13:23	01/08/14 14:10	1
1,2,3,7,8,9-HxCDD	0.047	U	5.0	0.047	pg/g		01/02/14 13:23	01/08/14 14:10	1
1,2,3,4,7,8-HxCDF	0.083	U	5.0	0.083	pg/g		01/02/14 13:23	01/08/14 14:10	1
1,2,3,6,7,8-HxCDF	0.074	U	5.0	0.074	pg/g		01/02/14 13:23	01/08/14 14:10	1
1,2,3,7,8,9-HxCDF	0.085	U	5.0	0.085	pg/g		01/02/14 13:23	01/08/14 14:10	1
2,3,4,6,7,8-HxCDF	0.080	U	5.0	0.080	pg/g		01/02/14 13:23	01/08/14 14:10	1
1,2,3,4,6,7,8-HpCDD	0.045	U	5.0	0.045	pg/g		01/02/14 13:23	01/08/14 14:10	1
1,2,3,4,6,7,8-HpCDF	0.152	J	5.0	0.038	pg/g		01/02/14 13:23	01/08/14 14:10	1
1,2,3,4,7,8,9-HpCDF	0.046	U	5.0	0.046	pg/g		01/02/14 13:23	01/08/14 14:10	1
OCDD	0.483	J	10	0.068	pg/g		01/02/14 13:23	01/08/14 14:10	1
OCDF	0.071	U	10	0.071	pg/g		01/02/14 13:23	01/08/14 14:10	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*80*		*40 - 135*	*01/02/14 13:23*	*01/08/14 14:10*	*1*
13C-1,2,3,7,8-PeCDD	*87*		*40 - 135*	*01/02/14 13:23*	*01/08/14 14:10*	*1*
13C-1,2,3,7,8-PeCDF	*76*		*40 - 135*	*01/02/14 13:23*	*01/08/14 14:10*	*1*
13C-1,2,3,6,7,8-HxCDD	*90*		*40 - 135*	*01/02/14 13:23*	*01/08/14 14:10*	*1*
13C-2,3,7,8-TCDF	*77*		*40 - 135*	*01/02/14 13:23*	*01/08/14 14:10*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*85*		*40 - 135*	*01/02/14 13:23*	*01/08/14 14:10*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*84*		*40 - 135*	*01/02/14 13:23*	*01/08/14 14:10*	*1*
13C-1,2,3,4,7,8-HxCDF	*80*		*40 - 135*	*01/02/14 13:23*	*01/08/14 14:10*	*1*
13C-OCDD	*76*		*40 - 135*	*01/02/14 13:23*	*01/08/14 14:10*	*1*

Lab Sample ID: LCS 320-33065/2-A
Matrix: Solid
Analysis Batch: 34511

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	22.1		pg/g		111	77 - 130
2,3,7,8-TCDF	20.0	21.1		pg/g		105	79 - 137
1,2,3,7,8-PeCDD	100	109		pg/g		109	79 - 134
1,2,3,7,8-PeCDF	100	125		pg/g		125	81 - 134
2,3,4,7,8-PeCDF	100	124		pg/g		124	76 - 132
1,2,3,4,7,8-HxCDD	100	95.8		pg/g		96	65 - 144
1,2,3,6,7,8-HxCDD	100	98.4		pg/g		98	73 - 147
1,2,3,7,8,9-HxCDD	100	101		pg/g		101	80 - 143
1,2,3,4,7,8-HxCDF	100	121		pg/g		121	72 - 140
1,2,3,6,7,8-HxCDF	100	124		pg/g		124	63 - 152
1,2,3,7,8,9-HxCDF	100	122		pg/g		122	72 - 152
2,3,4,6,7,8-HxCDF	100	126		pg/g		126	72 - 151
1,2,3,4,6,7,8-HpCDD	100	113		pg/g		113	86 - 134
1,2,3,4,6,7,8-HpCDF	100	111		pg/g		111	81 - 137

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-33065/2-A
Matrix: Solid
Analysis Batch: 34511

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33065

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,3,4,7,8,9-HpCDF			100	110		pg/g		110	79 - 139		
OCDD			200	220		pg/g		110	80 - 137		
OCDF			200	233		pg/g		117	75 - 141		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*96*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*93*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*84*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*107*		*40 - 135*
13C-2,3,7,8-TCDF	*91*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*100*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*96*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*91*		*40 - 135*
13C-OCDD	*87*		*40 - 135*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-91719/1-A
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12	U	17	12	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Barium	0.21	U	4.3	0.21	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Beryllium	0.14	U	0.43	0.14	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Cadmium	0.085	U	0.43	0.085	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Calcium	11	U	210	11	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Chromium	0.26	U	0.85	0.26	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Cobalt	0.80	U	4.3	0.80	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Copper	0.62	U	2.1	0.62	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Iron	2.5	U	8.5	2.5	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Magnesium	7.1	U	85	7.1	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Manganese	0.13	U	0.85	0.13	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Nickel	0.19	U	3.4	0.19	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Lead	0.15	U	0.85	0.15	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Selenium	0.25	U	1.3	0.25	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Vanadium	1.1	U	4.3	1.1	mg/Kg		12/13/13 08:34	01/09/14 23:55	1
Zinc	1.7	U	4.3	1.7	mg/Kg		12/13/13 08:34	01/09/14 23:55	1

Lab Sample ID: MB 160-91719/1-A
Matrix: Solid
Analysis Batch: 98404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	290	U	430	290	mg/Kg		12/13/13 08:34	01/14/14 19:10	1
Sodium	40	U	85	40	mg/Kg		12/13/13 08:34	01/14/14 19:10	1

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

Lab Sample ID: LCS 160-91719/2-A
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9780	6970		mg/Kg		71	44 - 155
Barium	325	284		mg/Kg		87	74 - 125
Beryllium	92.1	78.2		mg/Kg		85	74 - 126
Cadmium	110	89.9		mg/Kg		82	73 - 139
Calcium	6700	5740		mg/Kg		86	74 - 125
Chromium	93.4	81.2		mg/Kg		87	69 - 130
Cobalt	133	115		mg/Kg		86	74 - 125
Copper	74.7	62.1		mg/Kg		83	73 - 126
Iron	13100	10200		mg/Kg		78	32 - 167
Magnesium	2980	2260		mg/Kg		76	66 - 134
Manganese	443	350		mg/Kg		79	77 - 124
Nickel	109	92.7		mg/Kg		85	72 - 126
Lead	152	128		mg/Kg		84	73 - 126
Selenium	207	172		mg/Kg		83	69 - 131
Vanadium	110	89.0		mg/Kg		81	67 - 132
Zinc	299	251		mg/Kg		84	71 - 128

Lab Sample ID: LCS 160-91719/2-A
Matrix: Solid
Analysis Batch: 98404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	2770	2190		mg/Kg		79	61 - 138
Sodium	724	634		mg/Kg		88	56 - 144

Lab Sample ID: 680-96831-4 MS
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: NE-B-4_SUB
Prep Type: Total/NA
Prep Batch: 91719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	11000		2000	12700	4	mg/Kg	☼	78	75 - 125
Barium	180		200	355		mg/Kg	☼	86	75 - 125
Beryllium	0.84	U	200	192		mg/Kg	☼	96	75 - 125
Cadmium	0.49	U	200	195		mg/Kg	☼	97	75 - 125
Calcium	25000		2000	32100	4	mg/Kg	☼	371	75 - 125
Chromium	12		200	212		mg/Kg	☼	100	75 - 125
Cobalt	7.4	J	200	204		mg/Kg	☼	99	75 - 125
Copper	17		200	216		mg/Kg	☼	99	75 - 125
Iron	14000		2000	16000	4	mg/Kg	☼	98	75 - 125
Lead	11		200	216		mg/Kg	☼	103	75 - 125
Magnesium	9600		2000	12100	4	mg/Kg	☼	124	75 - 125
Manganese	350		200	685	F1	mg/Kg	☼	167	75 - 125
Nickel	16	J	200	215		mg/Kg	☼	100	75 - 125
Selenium	1.4	U	99.8	88.7		mg/Kg	☼	89	75 - 125
Vanadium	37		200	219		mg/Kg	☼	92	75 - 125
Zinc	40		200	237		mg/Kg	☼	99	75 - 125

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

Lab Sample ID: 680-96831-4 MS
Matrix: Solid
Analysis Batch: 98404

Client Sample ID: NE-B-4_SUB
Prep Type: Total/NA
Prep Batch: 91719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	3300	U	2000	4880	J	mg/Kg	☼	NC	75 - 125
Sodium	860	J	2000	3330		mg/Kg	☼	124	75 - 125

Lab Sample ID: 680-96831-4 MSD
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: NE-B-4_SUB
Prep Type: Total/NA
Prep Batch: 91719

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	11000		1980	14400	4	mg/Kg	☼	162	75 - 125	12	30
Barium	180		198	401		mg/Kg	☼	110	75 - 125	12	30
Beryllium	0.84	U	198	194		mg/Kg	☼	98	75 - 125	1	30
Cadmium	0.49	U	198	194		mg/Kg	☼	98	75 - 125	0	30
Calcium	25000		1980	30400	4	mg/Kg	☼	288	75 - 125	5	30
Chromium	12		198	211		mg/Kg	☼	101	75 - 125	0	30
Cobalt	7.4	J	198	205		mg/Kg	☼	100	75 - 125	0	30
Copper	17		198	214		mg/Kg	☼	99	75 - 125	1	30
Iron	14000		1980	15500	4	mg/Kg	☼	74	75 - 125	3	30
Lead	11		198	212		mg/Kg	☼	102	75 - 125	2	30
Magnesium	9600		1980	11800	4	mg/Kg	☼	108	75 - 125	3	30
Manganese	350		198	531		mg/Kg	☼	91	75 - 125	25	30
Nickel	16	J	198	216		mg/Kg	☼	101	75 - 125	1	30
Selenium	1.4	U	98.9	90.6		mg/Kg	☼	92	75 - 125	2	30
Vanadium	37		198	221		mg/Kg	☼	93	75 - 125	0	30
Zinc	40		198	236		mg/Kg	☼	99	75 - 125	0	30

Lab Sample ID: 680-96831-4 MSD
Matrix: Solid
Analysis Batch: 98404

Client Sample ID: NE-B-4_SUB
Prep Type: Total/NA
Prep Batch: 91719

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	3300	U	1980	5210		mg/Kg	☼	NC	75 - 125	7	30
Sodium	860	J	1980	3260		mg/Kg	☼	121	75 - 125	2	30

Lab Sample ID: 680-96831-9 MS
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: DD-B-10_SUB
Prep Type: Total/NA
Prep Batch: 91719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	18000		1960	14800	4	mg/Kg	☼	-152	75 - 125
Barium	170		196	427	F1	mg/Kg	☼	129	75 - 125
Beryllium	0.86	U	196	188		mg/Kg	☼	96	75 - 125
Cadmium	0.51	U	196	185		mg/Kg	☼	94	75 - 125
Calcium	28000		1960	29600	4	mg/Kg	☼	94	75 - 125
Chromium	14		196	206		mg/Kg	☼	98	75 - 125
Cobalt	11	J	196	197		mg/Kg	☼	95	75 - 125
Copper	21		196	207		mg/Kg	☼	95	75 - 125
Iron	17000		1960	17700	4	mg/Kg	☼	16	75 - 125
Lead	9.3		196	202		mg/Kg	☼	98	75 - 125
Magnesium	11000		1960	11900	4	mg/Kg	☼	62	75 - 125

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

Lab Sample ID: 680-96831-9 MS
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: DD-B-10_SUB
Prep Type: Total/NA
Prep Batch: 91719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	420		196	609		mg/Kg	☼	98	75 - 125
Nickel	20		196	207		mg/Kg	☼	95	75 - 125
Selenium	1.5	U	98.2	84.4		mg/Kg	☼	86	75 - 125
Vanadium	45		196	222		mg/Kg	☼	90	75 - 125
Zinc	47		196	229		mg/Kg	☼	93	75 - 125

Lab Sample ID: 680-96831-9 MS
Matrix: Solid
Analysis Batch: 98404

Client Sample ID: DD-B-10_SUB
Prep Type: Total/NA
Prep Batch: 91719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	3400	U	1960	3560	J	mg/Kg	☼	NC	75 - 125
Sodium	6000		1960	2940	F1	mg/Kg	☼	-156	75 - 125

Lab Sample ID: 680-96831-9 MSD
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: DD-B-10_SUB
Prep Type: Total/NA
Prep Batch: 91719

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	18000		2010	14700	4	mg/Kg	☼	-152	75 - 125	0	30
Barium	170		201	407		mg/Kg	☼	116	75 - 125	5	30
Beryllium	0.86	U	201	190		mg/Kg	☼	94	75 - 125	1	30
Cadmium	0.51	U	201	190		mg/Kg	☼	95	75 - 125	3	30
Calcium	28000		2010	41100	4 F2	mg/Kg	☼	662	75 - 125	32	30
Chromium	14		201	211		mg/Kg	☼	98	75 - 125	2	30
Cobalt	11	J	201	200		mg/Kg	☼	94	75 - 125	2	30
Copper	21		201	210		mg/Kg	☼	94	75 - 125	1	30
Iron	17000		2010	17700	4	mg/Kg	☼	18	75 - 125	0	30
Lead	9.3		201	207		mg/Kg	☼	98	75 - 125	2	30
Magnesium	11000		2010	11800	4	mg/Kg	☼	58	75 - 125	1	30
Manganese	420		201	599		mg/Kg	☼	90	75 - 125	2	30
Nickel	20		201	210		mg/Kg	☼	94	75 - 125	1	30
Selenium	1.5	U	100	86.1		mg/Kg	☼	86	75 - 125	2	30
Vanadium	45		201	224		mg/Kg	☼	89	75 - 125	1	30
Zinc	47		201	294		mg/Kg	☼	123	75 - 125	25	30

Lab Sample ID: 680-96831-9 MSD
Matrix: Solid
Analysis Batch: 98404

Client Sample ID: DD-B-10_SUB
Prep Type: Total/NA
Prep Batch: 91719

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	3400	U	2010	4100	J	mg/Kg	☼	NC	75 - 125	14	30
Sodium	6000		2010	3450	F1	mg/Kg	☼	-127	75 - 125	16	30

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

Lab Sample ID: MB 160-96025/1-A
Matrix: Water
Analysis Batch: 97021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96025

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	80	U	200	80	ug/L		01/03/14 17:29	01/08/14 13:36	1
Barium	4.0	U	50	4.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Beryllium	0.61	U	5.0	0.61	ug/L		01/03/14 17:29	01/08/14 13:36	1
Cadmium	0.91	U	5.0	0.91	ug/L		01/03/14 17:29	01/08/14 13:36	1
Calcium	110	U	1000	110	ug/L		01/03/14 17:29	01/08/14 13:36	1
Chromium	3.1	U	10	3.1	ug/L		01/03/14 17:29	01/08/14 13:36	1
Cobalt	4.9	U	50	4.9	ug/L		01/03/14 17:29	01/08/14 13:36	1
Copper	4.6	U	25	4.6	ug/L		01/03/14 17:29	01/08/14 13:36	1
Iron	28	U	100	28	ug/L		01/03/14 17:29	01/08/14 13:36	1
Magnesium	130	U	1000	130	ug/L		01/03/14 17:29	01/08/14 13:36	1
Manganese	3.3	U	15	3.3	ug/L		01/03/14 17:29	01/08/14 13:36	1
Nickel	13	U	40	13	ug/L		01/03/14 17:29	01/08/14 13:36	1
Potassium	1700	U	5000	1700	ug/L		01/03/14 17:29	01/08/14 13:36	1
Lead	1.5	U	10	1.5	ug/L		01/03/14 17:29	01/08/14 13:36	1
Antimony	4.0	U	10	4.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Silver	6.0	U	10	6.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Selenium	2.7	U	15	2.7	ug/L		01/03/14 17:29	01/08/14 13:36	1
Sodium	320	U	1000	320	ug/L		01/03/14 17:29	01/08/14 13:36	1
Titanium	2.4	U	20	2.4	ug/L		01/03/14 17:29	01/08/14 13:36	1
Vanadium	4.1	U	50	4.1	ug/L		01/03/14 17:29	01/08/14 13:36	1
Zinc	13.0	J	20	5.2	ug/L		01/03/14 17:29	01/08/14 13:36	1

Lab Sample ID: LCS 160-96025/2-A
Matrix: Water
Analysis Batch: 97021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96025

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	10500		ug/L		105	80 - 120
Barium	1000	1040		ug/L		104	80 - 120
Beryllium	1000	1050		ug/L		105	80 - 120
Cadmium	1000	1040		ug/L		104	80 - 120
Calcium	10000	10900		ug/L		109	80 - 120
Chromium	1000	1010		ug/L		101	80 - 120
Cobalt	1000	1080		ug/L		108	80 - 120
Copper	1000	1080		ug/L		108	80 - 120
Iron	10000	10600		ug/L		106	80 - 120
Magnesium	10000	9960		ug/L		100	80 - 120
Manganese	1000	1080		ug/L		108	80 - 120
Nickel	1000	1100		ug/L		110	80 - 120
Potassium	10000	11700		ug/L		117	80 - 120
Lead	1000	1090		ug/L		109	80 - 120
Antimony	500	513		ug/L		103	80 - 120
Silver	200	201		ug/L		100	80 - 120
Selenium	500	516		ug/L		103	80 - 120
Sodium	10000	11700		ug/L		117	80 - 120
Titanium	1000	1020		ug/L		102	80 - 120
Vanadium	1000	1040		ug/L		104	80 - 120
Zinc	1000	1070		ug/L		107	80 - 120

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

Lab Sample ID: MB 160-99087/1-A
Matrix: Solid
Analysis Batch: 99784

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	U	0.85	0.54	mg/Kg		01/16/14 15:30	01/17/14 13:40	1
Silver	0.20	U	0.85	0.20	mg/Kg		01/16/14 15:30	01/17/14 13:40	1
Titanium	0.54	U	1.7	0.54	mg/Kg		01/16/14 15:30	01/17/14 13:40	1

Lab Sample ID: LCSSRM 160-99087/2-A
Matrix: Solid
Analysis Batch: 99784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99087

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	129	118		mg/Kg		91.8	22.4 - 249.6
Silver	66.2	62.9		mg/Kg		95.0	67.1 - 132.9
Titanium	215	158		mg/Kg		73.3	0.0 - 215.8

Method: 6010C - Metals (ICP) - RE

Lab Sample ID: 680-96831-4 MS
Matrix: Solid
Analysis Batch: 99784

Client Sample ID: NE-B-4_SUB
Prep Type: Total/NA
Prep Batch: 99087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony - RE	3.2	U	45.3	25.2	F1	mg/Kg	☼	56	75 - 125
Silver - RE	1.2	U	18.1	17.5		mg/Kg	☼	97	75 - 125
Titanium - RE	490		90.7	751	4	mg/Kg	☼	286	75 - 125

Lab Sample ID: 680-96831-4 MSD
Matrix: Solid
Analysis Batch: 99784

Client Sample ID: NE-B-4_SUB
Prep Type: Total/NA
Prep Batch: 99087

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony - RE	3.2	U	49.5	25.4	F1	mg/Kg	☼	51	75 - 125	1	30
Silver - RE	1.2	U	19.8	18.7		mg/Kg	☼	94	75 - 125	6	30
Titanium - RE	490		98.9	923	4	mg/Kg	☼	436	75 - 125	21	30

Lab Sample ID: 680-96831-9 MS
Matrix: Solid
Analysis Batch: 99784

Client Sample ID: DD-B-10_SUB
Prep Type: Total/NA
Prep Batch: 99087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony - RE	3.3	U	48.8	27.6	F1	mg/Kg	☼	56	75 - 125
Silver - RE	1.2	U	19.5	18.7		mg/Kg	☼	96	75 - 125
Titanium - RE	740		97.6	932	4	mg/Kg	☼	195	75 - 125

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

Lab Sample ID: 680-96831-9 MSD — **Client Sample ID: DD-B-10_SUB**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99784 — **Prep Batch: 99087**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony - RE	3.3	U	51.2	26.0	F1	mg/Kg	☼	51	75 - 125	6	30
Silver - RE	1.2	U	20.5	18.8		mg/Kg	☼	92	75 - 125	1	30
Titanium - RE	740		102	1040	4	mg/Kg	☼	289	75 - 125	11	30

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-91720/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95497 — **Prep Batch: 91720**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.22	U	0.85	0.22	mg/Kg		12/13/13 08:38	12/31/13 04:23	2
Thallium	0.13	U	0.43	0.13	mg/Kg		12/13/13 08:38	12/31/13 04:23	2
Uranium	0.017	U	0.085	0.017	mg/Kg		12/13/13 08:38	12/31/13 04:23	2

Lab Sample ID: LCS 160-91720/17-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95497 — **Prep Batch: 91720**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	184	185		mg/Kg		101	80 - 120

Lab Sample ID: LCS 160-91720/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95497 — **Prep Batch: 91720**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	109	103		mg/Kg		95	70 - 131
Thallium	171	177		mg/Kg		104	68 - 131

Lab Sample ID: 680-96831-4 MS — **Client Sample ID: NE-B-4_SUB**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95497 — **Prep Batch: 91720**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.8	J	200	203		mg/Kg	☼	100	75 - 125
Thallium	0.75	U	39.9	41.9		mg/Kg	☼	105	75 - 125
Uranium	0.78		200	205		mg/Kg	☼	102	75 - 125

Lab Sample ID: 680-96831-4 MSD — **Client Sample ID: NE-B-4_SUB**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95497 — **Prep Batch: 91720**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	2.8	J	198	203		mg/Kg	☼	101	75 - 125	0	30
Thallium	0.75	U	39.6	42.6		mg/Kg	☼	108	75 - 125	2	30
Uranium	0.78		198	207		mg/Kg	☼	104	75 - 125	1	30

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

Lab Sample ID: 680-96831-9 MS
Matrix: Solid
Analysis Batch: 95497

Client Sample ID: DD-B-10_SUB
Prep Type: Total/NA
Prep Batch: 91720

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	3.4	J	196	193		mg/Kg	☼	96	75 - 125
Thallium	0.77	U	39.3	41.4		mg/Kg	☼	105	75 - 125
Uranium	1.1		196	201		mg/Kg	☼	102	75 - 125

Lab Sample ID: 680-96831-9 MSD
Matrix: Solid
Analysis Batch: 95497

Client Sample ID: DD-B-10_SUB
Prep Type: Total/NA
Prep Batch: 91720

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3.4	J	201	202		mg/Kg	☼	99	75 - 125	5	30
Thallium	0.77	U	40.2	42.5		mg/Kg	☼	106	75 - 125	3	30
Uranium	1.1		201	208		mg/Kg	☼	103	75 - 125	4	30

Lab Sample ID: MB 160-95958/1-A
Matrix: Solid
Analysis Batch: 97827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	0.35	U	2.3	0.35	mg/Kg		01/03/14 09:27	01/11/14 05:35	2

Lab Sample ID: LCS 160-95958/15-A
Matrix: Solid
Analysis Batch: 97827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	46.0	42.6		mg/Kg		93	80 - 120

Lab Sample ID: MB 160-96024/1-A
Matrix: Water
Analysis Batch: 96993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		01/03/14 17:29	01/09/14 00:26	1
Niobium	2.2	U	25	2.2	ug/L		01/03/14 17:29	01/09/14 00:26	1
Thallium	0.55	U	2.0	0.55	ug/L		01/03/14 17:29	01/09/14 00:26	1
Uranium	0.23	U	1.0	0.23	ug/L		01/03/14 17:29	01/09/14 00:26	1

Lab Sample ID: LCS 160-96024/2-A
Matrix: Water
Analysis Batch: 96993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	950		ug/L		95	80 - 120
Niobium	500	518	E	ug/L		104	80 - 120
Thallium	200	206		ug/L		103	80 - 120
Uranium	1000	985		ug/L		98	80 - 120

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

Lab Sample ID: MB 160-99806/1-A
Matrix: Solid
Analysis Batch: 100300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	0.34	U	2.3	0.34	mg/Kg		01/20/14 12:07	01/20/14 18:13	2

Lab Sample ID: LCS 160-99806/3-A
Matrix: Solid
Analysis Batch: 100300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	45.2	43.9	E	mg/Kg		97	80 - 120

Method: 6020A - Metals (ICP/MS) - RE

Lab Sample ID: 680-96831-4 MS
Matrix: Solid
Analysis Batch: 97827

Client Sample ID: NE-B-4_SUB
Prep Type: Total/NA
Prep Batch: 95958

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium - RE	1.8	U	49.6	18.9	F1	mg/Kg	☼	38	75 - 125

Lab Sample ID: 680-96831-4 MSD
Matrix: Solid
Analysis Batch: 97827

Client Sample ID: NE-B-4_SUB
Prep Type: Total/NA
Prep Batch: 95958

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Niobium - RE	1.8	U	47.8	19.2	F1	mg/Kg	☼	40	75 - 125	2	30

Lab Sample ID: 680-96831-9 MS
Matrix: Solid
Analysis Batch: 100300

Client Sample ID: DD-B-10_SUB
Prep Type: Total/NA
Prep Batch: 99806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium - RE	2.0	U	50.0	20.1	F1	mg/Kg	☼	40	75 - 125

Lab Sample ID: 680-96831-9 MSD
Matrix: Solid
Analysis Batch: 100300

Client Sample ID: DD-B-10_SUB
Prep Type: Total/NA
Prep Batch: 99806

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Niobium - RE	2.0	U	47.4	18.1	F1	mg/Kg	☼	38	75 - 125	11	30

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-90942/1-A
Matrix: Water
Analysis Batch: 91160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		12/10/13 09:56	12/11/13 14:16	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 160-90942/2-A
Matrix: Water
Analysis Batch: 91160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.30		ug/L		106	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 160-90474/1-A
Matrix: Solid
Analysis Batch: 91139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90474

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0099	U	0.030	0.0099	mg/Kg		12/09/13 13:36	12/11/13 12:38	1

Lab Sample ID: LCS 160-90474/2-A
Matrix: Solid
Analysis Batch: 91139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90474

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	16.3	14.7		mg/Kg		90	51 - 148

Lab Sample ID: 680-96831-4 MS
Matrix: Solid
Analysis Batch: 91139

Client Sample ID: NE-B-4_SUB
Prep Type: Total/NA
Prep Batch: 90474

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.011	J	0.824	0.766		mg/Kg	☼	93	80 - 120

Lab Sample ID: 680-96831-4 MSD
Matrix: Solid
Analysis Batch: 91139

Client Sample ID: NE-B-4_SUB
Prep Type: Total/NA
Prep Batch: 90474

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.011	J	0.807	0.756		mg/Kg	☼	94	80 - 120	1	30

Lab Sample ID: MB 160-91133/1-A
Matrix: Solid
Analysis Batch: 92199

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0101	J	0.031	0.010	mg/Kg		12/11/13 13:37	12/15/13 13:33	1

Lab Sample ID: LCS 160-91133/2-A
Matrix: Solid
Analysis Batch: 92199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	16.3	16.7		mg/Kg		102	51 - 148

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) (Continued)

Lab Sample ID: 680-96831-9 MS
Matrix: Solid
Analysis Batch: 92199

Client Sample ID: DD-B-10_SUB
Prep Type: Total/NA
Prep Batch: 91133

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.029	J B	0.836	0.920		mg/Kg	☼	107	80 - 120

Lab Sample ID: 680-96831-9 MSD
Matrix: Solid
Analysis Batch: 92199

Client Sample ID: DD-B-10_SUB
Prep Type: Total/NA
Prep Batch: 91133

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.029	J B	0.845	0.948		mg/Kg	☼	109	80 - 120	3	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-93476/3
Matrix: Water
Analysis Batch: 93476

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0040	U	0.020	0.0040	mg/L			12/06/13 13:09	1
Chloride	0.020	U	0.20	0.020	mg/L			12/06/13 13:09	1
Sulfate	0.050	U	0.50	0.050	mg/L			12/06/13 13:09	1

Lab Sample ID: LCS 160-93476/4
Matrix: Water
Analysis Batch: 93476

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.400	0.402		mg/L		100	90 - 110
Chloride	2.00	1.97		mg/L		98	90 - 110
Sulfate	8.00	7.81		mg/L		98	90 - 110

Lab Sample ID: MB 160-96784/1-A
Matrix: Solid
Analysis Batch: 97845

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.040	U	0.20	0.040	mg/Kg			01/10/14 11:55	1
Chloride	0.20	U	2.0	0.20	mg/Kg			01/10/14 11:55	1
Sulfate	0.50	U	5.0	0.50	mg/Kg			01/10/14 11:55	1

Lab Sample ID: LCS 160-96784/2-A
Matrix: Solid
Analysis Batch: 97845

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.01	3.89		mg/Kg		97	90 - 110
Chloride	20.1	18.6		mg/Kg		93	90 - 110
Sulfate	80.3	76.1		mg/Kg		95	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-96831-9 MS
Matrix: Solid
Analysis Batch: 97845

Client Sample ID: DD-B-10_SUB
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	7.3	H	4.25	11.8	H	mg/Kg	☼	105	90 - 110
Sulfate	200	H	42.5	238	H 4	mg/Kg	☼	95	90 - 110

Lab Sample ID: 680-96831-9 MSD
Matrix: Solid
Analysis Batch: 97845

Client Sample ID: DD-B-10_SUB
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	7.3	H	4.27	11.5	H	mg/Kg	☼	97	90 - 110	3	20
Sulfate	200	H	42.7	235	H 4	mg/Kg	☼	89	90 - 110	1	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 680-96831-4 MS
Matrix: Solid
Analysis Batch: 97845

Client Sample ID: NE-B-4_SUB
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N - DL	12	H	83.2	94.0	H	mg/Kg	☼	98	90 - 110
Chloride - DL	610	H	416	1220	H F1	mg/Kg	☼	147	90 - 110
Sulfate - DL	750	H	832	1720	H F1	mg/Kg	☼	117	90 - 110

Lab Sample ID: 680-96831-4 MSD
Matrix: Solid
Analysis Batch: 97845

Client Sample ID: NE-B-4_SUB
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N - DL	12	H	82.6	92.8	H	mg/Kg	☼	98	90 - 110	1	20
Chloride - DL	610	H	413	1060	H	mg/Kg	☼	108	90 - 110	14	20
Sulfate - DL	750	H	826	1700	H F1	mg/Kg	☼	115	90 - 110	1	20

Lab Sample ID: 680-96831-9 MS
Matrix: Solid
Analysis Batch: 97845

Client Sample ID: DD-B-10_SUB
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL	130	H	425	554	H	mg/Kg	☼	101	90 - 110

Lab Sample ID: 680-96831-9 MSD
Matrix: Solid
Analysis Batch: 97845

Client Sample ID: DD-B-10_SUB
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride - DL	130	H	427	543	H	mg/Kg	☼	98	90 - 110	2	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-94280/1-A
Matrix: Solid
Analysis Batch: 94286

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94280

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.3893	U	10.0	4.99	pCi/g		12/23/13 11:18	12/23/13 18:49	1
Gross Beta	2.595		10.0	2.27	pCi/g		12/23/13 11:18	12/23/13 18:49	1

Lab Sample ID: LCS 160-94280/2-A
Matrix: Solid
Analysis Batch: 94286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94280

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	27.1	16.36		5.24	4.95	pCi/g	60	44 - 140
Gross Beta	26.8	26.95		4.16	2.66	pCi/g	101	38 - 130

Lab Sample ID: MB 160-95516/1-A
Matrix: Water
Analysis Batch: 95840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95516

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.05583	U	3.00	1.44	pCi/L		12/31/13 12:16	01/02/14 18:28	1
Gross Beta	-0.06862	U	4.00	0.833	pCi/L		12/31/13 12:16	01/02/14 18:28	1

Lab Sample ID: LCS 160-95516/2-A
Matrix: Water
Analysis Batch: 95840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95516

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	53.8	48.83		7.27	1.91	pCi/L	91	75 - 125

Lab Sample ID: LCSB 160-95516/3-A
Matrix: Water
Analysis Batch: 95840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95516

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	98.2	94.35		9.96	0.993	pCi/L	96	75 - 125

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-94333/1-A
Matrix: Solid
Analysis Batch: 98110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94333

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	0.1208	U		0.393	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-212	-0.1137	U		1.56	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-214	0.06744	U		0.204	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-210M	0.02172	U		0.132	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cesium-134	0.01890	U		0.0532	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cesium-137	0.0000	U		0.0658	pCi/g		12/23/13 16:53	01/14/14 20:01	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-94333/1-A
Matrix: Solid
Analysis Batch: 98110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94333

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt-57	0.0000	U		0.0580	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cobalt-60	0.0000	U		0.377	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Lead-212	-0.03959	U		0.157	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Lead-214	-0.01117	U		0.239	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Potassium-40	-0.08341	U		1.76	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Protactinium-231	0.07350	U		3.03	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Protactinium-234	0.05108	U		0.174	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Radium-224	-0.04467	U		1.78	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thallium-208	-0.05488	U		0.158	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thorium-227	0.01782	U		0.539	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thorium-234	0.03218	U		2.05	pCi/g		12/23/13 16:53	01/14/14 20:01	1

Lab Sample ID: LCS 160-94333/2-A
Matrix: Solid
Analysis Batch: 98430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94333

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	31.3	30.07		3.24	0.320	pCi/g	96	87 - 120
Cobalt-60	23.5	22.83		2.37	0.181	pCi/g	97	87 - 115
Americium-241	97.5	97.06		10.2	1.39	pCi/g	100	87 - 116

Lab Sample ID: MB 160-94337/1-A
Matrix: Water
Analysis Batch: 97890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94337

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	-0.4580	U		45.5	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Bismuth-212	-19.18	U		148	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Bismuth-214	-1.271	U		29.7	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Bismuth-210M	0.4886	U		15.2	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cesium-134	-0.1895	U		12.8	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cesium-137	0.0000	U		14.0	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cobalt-57	0.7235	U		7.47	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cobalt-60	-3.036	U		15.9	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Lead-212	7.985	U		19.3	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Lead-214	6.238	U		25.2	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Potassium-40	-31.49	U		219	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Protactinium-231	-54.05	U		285	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Protactinium-234	5.830	U		41.8	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Radium-224	2.040	U		181	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thallium-208	-3.845	U		15.0	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thorium-227	-17.75	U		69.9	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thorium-231	15.22	U		63.7	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thorium-234	83.40	U		202	pCi/L		12/23/13 17:56	01/13/14 02:14	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-94337/2-A
Matrix: Water
Analysis Batch: 97574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94337

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	50500	49390		4960	224	pCi/L	98	90 - 111
Cobalt-60	59800	58270		5760	117	pCi/L	97	89 - 110
Americium-241	137000	132800		15300	554	pCi/L	97	90 - 111

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-90415/1-A
Matrix: Water
Analysis Batch: 95535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90415

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.06187	U	1.00	0.152	pCi/L		12/09/13 11:35	12/31/13 07:55	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*40 - 110*	*12/09/13 11:35*	*12/31/13 07:55*	*1*

Lab Sample ID: LCS 160-90415/2-A
Matrix: Water
Analysis Batch: 95535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90415

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	9.817		1.06	0.144	pCi/L	87	68 - 137

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*102*		*40 - 110*

Lab Sample ID: MB 160-92022/1-A
Matrix: Solid
Analysis Batch: 96777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92022

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.1340	U	1.00	0.238	pCi/g		12/13/13 15:38	01/08/14 16:22	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*40 - 110*	*12/13/13 15:38*	*01/08/14 16:22*	*1*

Lab Sample ID: LCS 160-92022/2-A
Matrix: Solid
Analysis Batch: 96777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92022

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	11.58		1.29	0.246	pCi/g	103	65 - 140

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-92022/2-A
Matrix: Solid
Analysis Batch: 96777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92022

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	109		40 - 110

Lab Sample ID: 680-96831-7 DU
Matrix: Solid
Analysis Batch: 96777

Client Sample ID: DD-B-8_SUB
Prep Type: Total/NA
Prep Batch: 92022

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-226	1.55			1.550		0.327		0.213	pCi/g			0	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	113	X	40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-90417/1-A
Matrix: Water
Analysis Batch: 95465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90417

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	-0.1412	U	1.00	0.441	pCi/L		12/09/13 11:40	12/30/13 11:00	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110	12/09/13 11:40	12/30/13 11:00	1
Y Carrier	85.6		40 - 110	12/09/13 11:40	12/30/13 11:00	1

Lab Sample ID: LCS 160-90417/2-A
Matrix: Water
Analysis Batch: 95465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90417

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-228			4.04	4.297		0.602		0.370	pCi/L	106	56 - 140		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	102		40 - 110
Y Carrier	86.7		40 - 110

Lab Sample ID: MB 160-92024/1-A
Matrix: Solid
Analysis Batch: 96785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92024

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.06486	U	1.00	0.357	pCi/g		12/13/13 14:41	01/08/14 12:16	1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-92024/1-A
Matrix: Solid
Analysis Batch: 96785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92024

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110	12/13/13 14:41	01/08/14 12:16	1
Y Carrier	90.8		40 - 110	12/13/13 14:41	01/08/14 12:16	1

Lab Sample ID: LCS 160-92024/2-A
Matrix: Solid
Analysis Batch: 96785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92024

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-228			4.02	3.745		0.547		0.336	pCi/g	93	61 - 139		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	109		40 - 110
Y Carrier	89.7		40 - 110

Lab Sample ID: 680-96831-7 DU
Matrix: Solid
Analysis Batch: 96785

Client Sample ID: DD-B-8_SUB
Prep Type: Total/NA
Prep Batch: 92024

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-228	1.12			1.121		0.280		0.286	pCi/g			0	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	113	X	40 - 110
Y Carrier	89.0		40 - 110

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-100386/1-A
Matrix: Water
Analysis Batch: 100960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100386

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	-0.008344	U	1.00	0.116	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-230	0.1637	U	1.00	0.255	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-232	-0.04458	U	1.00	0.190	pCi/L		01/22/14 08:57	01/23/14 22:10	1

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	83.1		30 - 110	01/22/14 08:57	01/23/14 22:10	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-100386/2-A
Matrix: Water
Analysis Batch: 100961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100386

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			8.64	9.640		1.27		0.217	pCi/L	112	81 - 125		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*76.3*		*30 - 110*

Lab Sample ID: LCSD 160-100386/3-A
Matrix: Water
Analysis Batch: 100977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100386

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Thorium-230			8.64	9.553		1.25		0.220	pCi/L	111	81 - 125	0.03	1

Tracer	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Thorium-229	*77.7*		*30 - 110*

Lab Sample ID: MB 160-97453/1-A
Matrix: Solid
Analysis Batch: 99479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97453

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.1825		1.00	0.0734	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-230	0.1376		1.00	0.104	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-232	0.04637	U	1.00	0.0814	pCi/g		01/10/14 14:41	01/18/14 16:41	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*78.3*		*30 - 110*	*01/10/14 14:41*	*01/18/14 16:41*	*1*

Lab Sample ID: LCS 160-97453/2-A
Matrix: Solid
Analysis Batch: 99546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97453

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			24.5	23.46		2.43		0.248	pCi/g	96	81 - 118		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*85.0*		*30 - 110*

Lab Sample ID: 680-96831-6 DU
Matrix: Solid
Analysis Batch: 99564

Client Sample ID: DD-B-8_SS
Prep Type: Total/NA
Prep Batch: 97453

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Thorium-228	1.97			2.260		0.390		0.136	pCi/g			0.39	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: 680-96831-6 DU
Matrix: Solid
Analysis Batch: 99564

Client Sample ID: DD-B-8_SS
Prep Type: Total/NA
Prep Batch: 97453

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Thorium-230	1.50		1.491		0.303	0.114	pCi/g	0.02	1
Thorium-232	1.86		1.790		0.335	0.0841	pCi/g	0.1	1

Tracer	*DU %Yield*	*DU Qualifier*	*Limits*
Thorium-229	*74.7*		*30 - 110*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-97007/1-A
Matrix: Water
Analysis Batch: 98989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97007

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	-0.01043	U	1.00	0.144	pCi/L		01/09/14 09:41	01/16/14 23:39	1
U-238	0.03623	U	1.00	0.116	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-233/234	0.03212	U	1.00	0.127	pCi/L		01/09/14 09:41	01/16/14 23:39	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*85.8*		*30 - 110*	*01/09/14 09:41*	*01/16/14 23:39*	*1*

Lab Sample ID: LCS 160-97007/2-A
Matrix: Water
Analysis Batch: 98990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97007

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.607	0.6640		0.310	0.105	pCi/L	109	
U-238	13.0	13.00		1.63	0.128	pCi/L	100	83 - 121
Uranium-233/234	12.7	12.68		1.60	0.146	pCi/L	100	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*70.2*		*30 - 110*

Lab Sample ID: LCSD 160-97007/3-A
Matrix: Water
Analysis Batch: 98991

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97007

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Uranium-235/236	0.607	0.4230	U	0.599	0.635	pCi/L	70		0.27	1
U-238	13.0	14.49		3.38	0.965	pCi/L	111	83 - 121	0.30	1
Uranium-233/234	12.7	14.04		3.32	0.883	pCi/L	110	84 - 120	0.28	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCSD 160-97007/3-A
Matrix: Water
Analysis Batch: 98991

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97007

Tracer	LCSD %Yield	LCSD Qualifier	Limits
Uranium-232	10.8	X	30 - 110

Lab Sample ID: MB 160-97859/1-A
Matrix: Solid
Analysis Batch: 99258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97859

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.0000	U	1.00	0.0429	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-238	0.02294	U	1.00	0.0344	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-233/234	0.03016	U	1.00	0.0597	pCi/g		01/10/14 14:41	01/17/14 20:37	1

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	78.5		30 - 110	01/10/14 14:41	01/17/14 20:37	1

Lab Sample ID: LCS 160-97859/2-A
Matrix: Solid
Analysis Batch: 99259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97859

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.304	0.4293		0.159	0.0634	pCi/g	141	
Uranium-238	6.51	6.291		0.749	0.0335	pCi/g	97	82 - 122
Uranium-233/234	6.37	6.126		0.735	0.0725	pCi/g	96	84 - 120

Tracer	LCS %Yield	LCS Qualifier	Limits
Uranium-232	80.8		30 - 110

Lab Sample ID: 680-96831-6 DU
Matrix: Solid
Analysis Batch: 99262

Client Sample ID: DD-B-8_SS
Prep Type: Total/NA
Prep Batch: 97859

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Uranium-235/236	0.0700		0.06149		0.0617	0.0461	pCi/g	0.07	1
Uranium-238	1.27		1.351		0.282	0.0640	pCi/g	0.15	1
Uranium-233/234	1.05		1.181		0.262	0.0642	pCi/g	0.27	1

Tracer	DU %Yield	DU Qualifier	Limits
Uranium-232	75.3		30 - 110

GC/MS Semi VOA

Prep Batch: 91108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	3510C	
LCS 160-91108/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 160-91108/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 160-91108/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 91425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	8270D	91108
LCS 160-91108/2-A	Lab Control Sample	Total/NA	Water	8270D	91108
LCSD 160-91108/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	91108
MB 160-91108/1-A	Method Blank	Total/NA	Water	8270D	91108

Prep Batch: 92812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6	DD-B-8_SS	Total/NA	Solid	3550C	
LCS 160-92812/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 160-92812/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 93362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6	DD-B-8_SS	Total/NA	Solid	8270D	92812
LCS 160-92812/2-A	Lab Control Sample	Total/NA	Solid	8270D	92812
MB 160-92812/1-A	Method Blank	Total/NA	Solid	8270D	92812

Specialty Organics

Prep Batch: 31992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	8290	
LCS 320-31992/2-A	Lab Control Sample	Total/NA	Water	8290	
MB 320-31992/1-A	Method Blank	Total/NA	Water	8290	

Prep Batch: 32034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	HRMS-Sep	
LCS 320-32034/2-A	Lab Control Sample	Total/NA	Water	HRMS-Sep	
MB 320-32034/1-A	Method Blank	Total/NA	Water	HRMS-Sep	

Prep Batch: 33065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6 - RA	DD-B-8_SS	Total/NA	Solid	8290	
680-96831-6	DD-B-8_SS	Total/NA	Solid	8290	
LCS 320-33065/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-33065/1-A	Method Blank	Total/NA	Solid	8290	

Prep Batch: 33078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6	DD-B-8_SS	Total/NA	Solid	HRMS-Sox	
LCS 320-33078/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-33078/1-A	Method Blank	Total/NA	Solid	8290	

Specialty Organics (Continued)

Prep Batch: 33530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1	NE-B-5_SS	Total/NA	Solid	HRMS-Sox	
680-96831-3	NE-B-4_SS	Total/NA	Solid	HRMS-Sox	
680-96831-8	DD-B-10_SS	Total/NA	Solid	HRMS-Sox	
LCS 320-33530/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
MB 320-33530/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	

Analysis Batch: 33612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6	DD-B-8_SS	Total/NA	Solid	8290A	33065

Analysis Batch: 33676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	8290A	31992
LCS 320-31992/2-A	Lab Control Sample	Total/NA	Water	8290A	31992
MB 320-31992/1-A	Method Blank	Total/NA	Water	8290A	31992

Analysis Batch: 33810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-32034/2-A	Lab Control Sample	Total/NA	Water	1668C	32034
MB 320-32034/1-A	Method Blank	Total/NA	Water	1668C	32034

Analysis Batch: 34065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6 - RA	DD-B-8_SS	Total/NA	Solid	8290A	33065

Analysis Batch: 34511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-33065/2-A	Lab Control Sample	Total/NA	Solid	8290A	33065
MB 320-33065/1-A	Method Blank	Total/NA	Solid	8290A	33065

Analysis Batch: 35058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	1668C	32034

Analysis Batch: 35524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-33530/2-A	Lab Control Sample	Total/NA	Solid	1668C	33530
MB 320-33530/1-A	Method Blank	Total/NA	Solid	1668C	33530

Analysis Batch: 35526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1	NE-B-5_SS	Total/NA	Solid	1668C	33530
680-96831-3	NE-B-4_SS	Total/NA	Solid	1668C	33530
680-96831-8	DD-B-10_SS	Total/NA	Solid	1668C	33530

Analysis Batch: 35731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6	DD-B-8_SS	Total/NA	Solid	1668C	33078
LCS 320-33078/2-A	Lab Control Sample	Total/NA	Solid	1668C	33078
MB 320-33078/1-A	Method Blank	Total/NA	Solid	1668C	33078

Metals

Prep Batch: 90474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1	NE-B-5_SS	Total/NA	Solid	7471B	
680-96831-2	NE-B-5_SUB	Total/NA	Solid	7471B	
680-96831-3	NE-B-4_SS	Total/NA	Solid	7471B	
680-96831-4	NE-B-4_SUB	Total/NA	Solid	7471B	
680-96831-4 MS	NE-B-4_SUB	Total/NA	Solid	7471B	
680-96831-4 MSD	NE-B-4_SUB	Total/NA	Solid	7471B	
680-96831-5	NE-B-4_SUB DUP	Total/NA	Solid	7471B	
680-96831-6	DD-B-8_SS	Total/NA	Solid	7471B	
680-96831-7	DD-B-8_SUB	Total/NA	Solid	7471B	
680-96831-8	DD-B-10_SS	Total/NA	Solid	7471B	
680-96831-10	DD-B-10_SUB DUP	Total/NA	Solid	7471B	
LCS 160-90474/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-90474/1-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 90942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	7470A	
LCS 160-90942/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 160-90942/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 91133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-9	DD-B-10_SUB	Total/NA	Solid	7471B	
680-96831-9 MS	DD-B-10_SUB	Total/NA	Solid	7471B	
680-96831-9 MSD	DD-B-10_SUB	Total/NA	Solid	7471B	
LCS 160-91133/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-91133/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 91139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1	NE-B-5_SS	Total/NA	Solid	7471B	90474
680-96831-2	NE-B-5_SUB	Total/NA	Solid	7471B	90474
680-96831-3	NE-B-4_SS	Total/NA	Solid	7471B	90474
680-96831-4	NE-B-4_SUB	Total/NA	Solid	7471B	90474
680-96831-4 MS	NE-B-4_SUB	Total/NA	Solid	7471B	90474
680-96831-4 MSD	NE-B-4_SUB	Total/NA	Solid	7471B	90474
680-96831-5	NE-B-4_SUB DUP	Total/NA	Solid	7471B	90474
680-96831-6	DD-B-8_SS	Total/NA	Solid	7471B	90474
680-96831-7	DD-B-8_SUB	Total/NA	Solid	7471B	90474
680-96831-8	DD-B-10_SS	Total/NA	Solid	7471B	90474
680-96831-10	DD-B-10_SUB DUP	Total/NA	Solid	7471B	90474
LCS 160-90474/2-A	Lab Control Sample	Total/NA	Solid	7471B	90474
MB 160-90474/1-A	Method Blank	Total/NA	Solid	7471B	90474

Analysis Batch: 91160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	7470A	90942
LCS 160-90942/2-A	Lab Control Sample	Total/NA	Water	7470A	90942
MB 160-90942/1-A	Method Blank	Total/NA	Water	7470A	90942

Metals (Continued)

Prep Batch: 91719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1	NE-B-5_SS	Total/NA	Solid	3050B	
680-96831-2	NE-B-5_SUB	Total/NA	Solid	3050B	
680-96831-3	NE-B-4_SS	Total/NA	Solid	3050B	
680-96831-4	NE-B-4_SUB	Total/NA	Solid	3050B	
680-96831-4 MS	NE-B-4_SUB	Total/NA	Solid	3050B	
680-96831-4 MSD	NE-B-4_SUB	Total/NA	Solid	3050B	
680-96831-5	NE-B-4_SUB DUP	Total/NA	Solid	3050B	
680-96831-6	DD-B-8_SS	Total/NA	Solid	3050B	
680-96831-7	DD-B-8_SUB	Total/NA	Solid	3050B	
680-96831-8	DD-B-10_SS	Total/NA	Solid	3050B	
680-96831-9	DD-B-10_SUB	Total/NA	Solid	3050B	
680-96831-9 MS	DD-B-10_SUB	Total/NA	Solid	3050B	
680-96831-9 MSD	DD-B-10_SUB	Total/NA	Solid	3050B	
680-96831-10	DD-B-10_SUB DUP	Total/NA	Solid	3050B	
LCS 160-91719/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-91719/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 91720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1	NE-B-5_SS	Total/NA	Solid	3050B	
680-96831-2	NE-B-5_SUB	Total/NA	Solid	3050B	
680-96831-3	NE-B-4_SS	Total/NA	Solid	3050B	
680-96831-4	NE-B-4_SUB	Total/NA	Solid	3050B	
680-96831-4 MS	NE-B-4_SUB	Total/NA	Solid	3050B	
680-96831-4 MSD	NE-B-4_SUB	Total/NA	Solid	3050B	
680-96831-5	NE-B-4_SUB DUP	Total/NA	Solid	3050B	
680-96831-6	DD-B-8_SS	Total/NA	Solid	3050B	
680-96831-7	DD-B-8_SUB	Total/NA	Solid	3050B	
680-96831-8	DD-B-10_SS	Total/NA	Solid	3050B	
680-96831-9	DD-B-10_SUB	Total/NA	Solid	3050B	
680-96831-9 MS	DD-B-10_SUB	Total/NA	Solid	3050B	
680-96831-9 MSD	DD-B-10_SUB	Total/NA	Solid	3050B	
680-96831-10	DD-B-10_SUB DUP	Total/NA	Solid	3050B	
LCS 160-91720/17-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 160-91720/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-91720/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 92199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-9	DD-B-10_SUB	Total/NA	Solid	7471B	91133
680-96831-9 MS	DD-B-10_SUB	Total/NA	Solid	7471B	91133
680-96831-9 MSD	DD-B-10_SUB	Total/NA	Solid	7471B	91133
LCS 160-91133/2-A	Lab Control Sample	Total/NA	Solid	7471B	91133
MB 160-91133/1-A	Method Blank	Total/NA	Solid	7471B	91133

Analysis Batch: 95497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1	NE-B-5_SS	Total/NA	Solid	6020A	91720
680-96831-2	NE-B-5_SUB	Total/NA	Solid	6020A	91720
680-96831-3	NE-B-4_SS	Total/NA	Solid	6020A	91720
680-96831-4	NE-B-4_SUB	Total/NA	Solid	6020A	91720

Metals (Continued)

Analysis Batch: 95497 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-4 MS	NE-B-4_SUB	Total/NA	Solid	6020A	91720
680-96831-4 MSD	NE-B-4_SUB	Total/NA	Solid	6020A	91720
680-96831-5	NE-B-4_SUB DUP	Total/NA	Solid	6020A	91720
680-96831-6	DD-B-8_SS	Total/NA	Solid	6020A	91720
680-96831-7	DD-B-8_SUB	Total/NA	Solid	6020A	91720
680-96831-8	DD-B-10_SS	Total/NA	Solid	6020A	91720
680-96831-9	DD-B-10_SUB	Total/NA	Solid	6020A	91720
680-96831-9 MS	DD-B-10_SUB	Total/NA	Solid	6020A	91720
680-96831-9 MSD	DD-B-10_SUB	Total/NA	Solid	6020A	91720
680-96831-10	DD-B-10_SUB DUP	Total/NA	Solid	6020A	91720
LCS 160-91720/17-A	Lab Control Sample	Total/NA	Solid	6020A	91720
LCS 160-91720/2-A	Lab Control Sample	Total/NA	Solid	6020A	91720
MB 160-91720/1-A	Method Blank	Total/NA	Solid	6020A	91720

Prep Batch: 95958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1 - RE	NE-B-5_SS	Total/NA	Solid	3050B	
680-96831-2 - RE	NE-B-5_SUB	Total/NA	Solid	3050B	
680-96831-3 - RE	NE-B-4_SS	Total/NA	Solid	3050B	
680-96831-4 - RE	NE-B-4_SUB	Total/NA	Solid	3050B	
680-96831-4 MS - RE	NE-B-4_SUB	Total/NA	Solid	3050B	
680-96831-4 MSD - RE	NE-B-4_SUB	Total/NA	Solid	3050B	
680-96831-5 - RE	NE-B-4_SUB DUP	Total/NA	Solid	3050B	
680-96831-6 - RE	DD-B-8_SS	Total/NA	Solid	3050B	
680-96831-7 - RE	DD-B-8_SUB	Total/NA	Solid	3050B	
680-96831-8 - RE	DD-B-10_SS	Total/NA	Solid	3050B	
680-96831-10 - RE	DD-B-10_SUB DUP	Total/NA	Solid	3050B	
LCS 160-95958/15-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-95958/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 96024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	3010A	
LCS 160-96024/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-96024/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 96025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	3010A	
LCS 160-96025/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-96025/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 96993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	6020A	96024
LCS 160-96024/2-A	Lab Control Sample	Total/NA	Water	6020A	96024
MB 160-96024/1-A	Method Blank	Total/NA	Water	6020A	96024

Analysis Batch: 97021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	6010C	96025

Metals (Continued)

Analysis Batch: 97021 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-96025/2-A	Lab Control Sample	Total/NA	Water	6010C	96025
MB 160-96025/1-A	Method Blank	Total/NA	Water	6010C	96025

Analysis Batch: 97291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1	NE-B-5_SS	Total/NA	Solid	6010C	91719
680-96831-2	NE-B-5_SUB	Total/NA	Solid	6010C	91719
680-96831-3	NE-B-4_SS	Total/NA	Solid	6010C	91719
680-96831-4	NE-B-4_SUB	Total/NA	Solid	6010C	91719
680-96831-4 MS	NE-B-4_SUB	Total/NA	Solid	6010C	91719
680-96831-4 MSD	NE-B-4_SUB	Total/NA	Solid	6010C	91719
680-96831-5	NE-B-4_SUB DUP	Total/NA	Solid	6010C	91719
680-96831-6	DD-B-8_SS	Total/NA	Solid	6010C	91719
680-96831-7	DD-B-8_SUB	Total/NA	Solid	6010C	91719
680-96831-8	DD-B-10_SS	Total/NA	Solid	6010C	91719
680-96831-9	DD-B-10_SUB	Total/NA	Solid	6010C	91719
680-96831-9 MS	DD-B-10_SUB	Total/NA	Solid	6010C	91719
680-96831-9 MSD	DD-B-10_SUB	Total/NA	Solid	6010C	91719
680-96831-10	DD-B-10_SUB DUP	Total/NA	Solid	6010C	91719
LCS 160-91719/2-A	Lab Control Sample	Total/NA	Solid	6010C	91719
MB 160-91719/1-A	Method Blank	Total/NA	Solid	6010C	91719

Analysis Batch: 97827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1 - RE	NE-B-5_SS	Total/NA	Solid	6020A	95958
680-96831-2 - RE	NE-B-5_SUB	Total/NA	Solid	6020A	95958
680-96831-3 - RE	NE-B-4_SS	Total/NA	Solid	6020A	95958
680-96831-4 - RE	NE-B-4_SUB	Total/NA	Solid	6020A	95958
680-96831-4 MS - RE	NE-B-4_SUB	Total/NA	Solid	6020A	95958
680-96831-4 MSD - RE	NE-B-4_SUB	Total/NA	Solid	6020A	95958
680-96831-5 - RE	NE-B-4_SUB DUP	Total/NA	Solid	6020A	95958
680-96831-6 - RE	DD-B-8_SS	Total/NA	Solid	6020A	95958
680-96831-7 - RE	DD-B-8_SUB	Total/NA	Solid	6020A	95958
680-96831-8 - RE	DD-B-10_SS	Total/NA	Solid	6020A	95958
680-96831-10 - RE	DD-B-10_SUB DUP	Total/NA	Solid	6020A	95958
LCS 160-95958/15-A	Lab Control Sample	Total/NA	Solid	6020A	95958
MB 160-95958/1-A	Method Blank	Total/NA	Solid	6020A	95958

Analysis Batch: 98404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1	NE-B-5_SS	Total/NA	Solid	6010C	91719
680-96831-2	NE-B-5_SUB	Total/NA	Solid	6010C	91719
680-96831-3	NE-B-4_SS	Total/NA	Solid	6010C	91719
680-96831-4	NE-B-4_SUB	Total/NA	Solid	6010C	91719
680-96831-4 MS	NE-B-4_SUB	Total/NA	Solid	6010C	91719
680-96831-4 MSD	NE-B-4_SUB	Total/NA	Solid	6010C	91719
680-96831-5	NE-B-4_SUB DUP	Total/NA	Solid	6010C	91719
680-96831-6	DD-B-8_SS	Total/NA	Solid	6010C	91719
680-96831-7	DD-B-8_SUB	Total/NA	Solid	6010C	91719
680-96831-8	DD-B-10_SS	Total/NA	Solid	6010C	91719
680-96831-9	DD-B-10_SUB	Total/NA	Solid	6010C	91719

Metals (Continued)

Analysis Batch: 98404 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-9 MS	DD-B-10_SUB	Total/NA	Solid	6010C	91719
680-96831-9 MSD	DD-B-10_SUB	Total/NA	Solid	6010C	91719
680-96831-10	DD-B-10_SUB DUP	Total/NA	Solid	6010C	91719
LCS 160-91719/2-A	Lab Control Sample	Total/NA	Solid	6010C	91719
MB 160-91719/1-A	Method Blank	Total/NA	Solid	6010C	91719

Prep Batch: 99087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1 - RE	NE-B-5_SS	Total/NA	Solid	3050B	
680-96831-2 - RE	NE-B-5_SUB	Total/NA	Solid	3050B	
680-96831-3 - RE	NE-B-4_SS	Total/NA	Solid	3050B	
680-96831-4 - RE	NE-B-4_SUB	Total/NA	Solid	3050B	
680-96831-4 MS - RE	NE-B-4_SUB	Total/NA	Solid	3050B	
680-96831-4 MSD - RE	NE-B-4_SUB	Total/NA	Solid	3050B	
680-96831-5 - RE	NE-B-4_SUB DUP	Total/NA	Solid	3050B	
680-96831-6 - RE	DD-B-8_SS	Total/NA	Solid	3050B	
680-96831-7 - RE	DD-B-8_SUB	Total/NA	Solid	3050B	
680-96831-8 - RE	DD-B-10_SS	Total/NA	Solid	3050B	
680-96831-9 - RE	DD-B-10_SUB	Total/NA	Solid	3050B	
680-96831-9 MS - RE	DD-B-10_SUB	Total/NA	Solid	3050B	
680-96831-9 MSD - RE	DD-B-10_SUB	Total/NA	Solid	3050B	
680-96831-10 - RE	DD-B-10_SUB DUP	Total/NA	Solid	3050B	
LCSSRM 160-99087/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-99087/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 99784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1 - RE	NE-B-5_SS	Total/NA	Solid	6010C	99087
680-96831-2 - RE	NE-B-5_SUB	Total/NA	Solid	6010C	99087
680-96831-3 - RE	NE-B-4_SS	Total/NA	Solid	6010C	99087
680-96831-4 - RE	NE-B-4_SUB	Total/NA	Solid	6010C	99087
680-96831-4 MS - RE	NE-B-4_SUB	Total/NA	Solid	6010C	99087
680-96831-4 MSD - RE	NE-B-4_SUB	Total/NA	Solid	6010C	99087
680-96831-5 - RE	NE-B-4_SUB DUP	Total/NA	Solid	6010C	99087
680-96831-6 - RE	DD-B-8_SS	Total/NA	Solid	6010C	99087
680-96831-7 - RE	DD-B-8_SUB	Total/NA	Solid	6010C	99087
680-96831-8 - RE	DD-B-10_SS	Total/NA	Solid	6010C	99087
680-96831-9 - RE	DD-B-10_SUB	Total/NA	Solid	6010C	99087
680-96831-9 MS - RE	DD-B-10_SUB	Total/NA	Solid	6010C	99087
680-96831-9 MSD - RE	DD-B-10_SUB	Total/NA	Solid	6010C	99087
680-96831-10 - RE	DD-B-10_SUB DUP	Total/NA	Solid	6010C	99087
LCSSRM 160-99087/2-A	Lab Control Sample	Total/NA	Solid	6010C	99087
MB 160-99087/1-A	Method Blank	Total/NA	Solid	6010C	99087

Prep Batch: 99806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-9 - RE	DD-B-10_SUB	Total/NA	Solid	3050B	
680-96831-9 MS - RE	DD-B-10_SUB	Total/NA	Solid	3050B	
680-96831-9 MSD - RE	DD-B-10_SUB	Total/NA	Solid	3050B	
LCS 160-99806/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-99806/1-A	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Analysis Batch: 100300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-9 - RE	DD-B-10_SUB	Total/NA	Solid	6020A	99806
680-96831-9 MS - RE	DD-B-10_SUB	Total/NA	Solid	6020A	99806
680-96831-9 MSD - RE	DD-B-10_SUB	Total/NA	Solid	6020A	99806
LCS 160-99806/3-A	Lab Control Sample	Total/NA	Solid	6020A	99806
MB 160-99806/1-A	Method Blank	Total/NA	Solid	6020A	99806

General Chemistry

Analysis Batch: 90314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1	NE-B-5_SS	Total/NA	Solid	Moisture	
680-96831-3	NE-B-4_SS	Total/NA	Solid	Moisture	
680-96831-4	NE-B-4_SUB	Total/NA	Solid	Moisture	
680-96831-4 MS	NE-B-4_SUB	Total/NA	Solid	Moisture	
680-96831-4 MSD	NE-B-4_SUB	Total/NA	Solid	Moisture	
680-96831-5	NE-B-4_SUB DUP	Total/NA	Solid	Moisture	
680-96831-6	DD-B-8_SS	Total/NA	Solid	Moisture	
680-96831-7	DD-B-8_SUB	Total/NA	Solid	Moisture	
680-96831-8	DD-B-10_SS	Total/NA	Solid	Moisture	
680-96831-9	DD-B-10_SUB	Total/NA	Solid	Moisture	
680-96831-9 MS	DD-B-10_SUB	Total/NA	Solid	Moisture	
680-96831-9 MSD	DD-B-10_SUB	Total/NA	Solid	Moisture	
680-96831-10	DD-B-10_SUB DUP	Total/NA	Solid	Moisture	
680-96831-10 DU	DD-B-10_SUB DUP	Total/NA	Solid	Moisture	

Analysis Batch: 91069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-2	NE-B-5_SUB	Total/NA	Solid	Moisture	
680-96831-2 DU	NE-B-5_SUB	Total/NA	Solid	Moisture	

Analysis Batch: 93476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	300.0	
LCS 160-93476/4	Lab Control Sample	Total/NA	Water	300.0	
MB 160-93476/3	Method Blank	Total/NA	Water	300.0	

Leach Batch: 96784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1 - DL2	NE-B-5_SS	Soluble	Solid	DI Leach	
680-96831-1 - DL	NE-B-5_SS	Soluble	Solid	DI Leach	
680-96831-2 - DL	NE-B-5_SUB	Soluble	Solid	DI Leach	
680-96831-2	NE-B-5_SUB	Soluble	Solid	DI Leach	
680-96831-3 - DL2	NE-B-4_SS	Soluble	Solid	DI Leach	
680-96831-3 - DL	NE-B-4_SS	Soluble	Solid	DI Leach	
680-96831-4 - DL	NE-B-4_SUB	Soluble	Solid	DI Leach	
680-96831-4 MS - DL	NE-B-4_SUB	Soluble	Solid	DI Leach	
680-96831-4 MSD - DL	NE-B-4_SUB	Soluble	Solid	DI Leach	
680-96831-5 - DL	NE-B-4_SUB DUP	Soluble	Solid	DI Leach	
680-96831-5 - DL2	NE-B-4_SUB DUP	Soluble	Solid	DI Leach	
680-96831-6	DD-B-8_SS	Soluble	Solid	DI Leach	

General Chemistry (Continued)

Leach Batch: 96784 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-7	DD-B-8_SUB	Soluble	Solid	DI Leach	
680-96831-8	DD-B-10_SS	Soluble	Solid	DI Leach	
680-96831-9	DD-B-10_SUB	Soluble	Solid	DI Leach	
680-96831-9 - DL	DD-B-10_SUB	Soluble	Solid	DI Leach	
680-96831-9 MS	DD-B-10_SUB	Soluble	Solid	DI Leach	
680-96831-9 MS - DL	DD-B-10_SUB	Soluble	Solid	DI Leach	
680-96831-9 MSD	DD-B-10_SUB	Soluble	Solid	DI Leach	
680-96831-9 MSD - DL	DD-B-10_SUB	Soluble	Solid	DI Leach	
680-96831-10 - DL	DD-B-10_SUB DUP	Soluble	Solid	DI Leach	
680-96831-10	DD-B-10_SUB DUP	Soluble	Solid	DI Leach	
LCS 160-96784/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 160-96784/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 97845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-1 - DL	NE-B-5_SS	Soluble	Solid	300.0	96784
680-96831-1 - DL2	NE-B-5_SS	Soluble	Solid	300.0	96784
680-96831-2	NE-B-5_SUB	Soluble	Solid	300.0	96784
680-96831-2 - DL	NE-B-5_SUB	Soluble	Solid	300.0	96784
680-96831-3 - DL	NE-B-4_SS	Soluble	Solid	300.0	96784
680-96831-3 - DL2	NE-B-4_SS	Soluble	Solid	300.0	96784
680-96831-4 - DL	NE-B-4_SUB	Soluble	Solid	300.0	96784
680-96831-4 MS - DL	NE-B-4_SUB	Soluble	Solid	300.0	96784
680-96831-4 MSD - DL	NE-B-4_SUB	Soluble	Solid	300.0	96784
680-96831-5 - DL	NE-B-4_SUB DUP	Soluble	Solid	300.0	96784
680-96831-5 - DL2	NE-B-4_SUB DUP	Soluble	Solid	300.0	96784
680-96831-6	DD-B-8_SS	Soluble	Solid	300.0	96784
680-96831-7	DD-B-8_SUB	Soluble	Solid	300.0	96784
680-96831-8	DD-B-10_SS	Soluble	Solid	300.0	96784
680-96831-9	DD-B-10_SUB	Soluble	Solid	300.0	96784
680-96831-9 - DL	DD-B-10_SUB	Soluble	Solid	300.0	96784
680-96831-9 MS	DD-B-10_SUB	Soluble	Solid	300.0	96784
680-96831-9 MS - DL	DD-B-10_SUB	Soluble	Solid	300.0	96784
680-96831-9 MSD	DD-B-10_SUB	Soluble	Solid	300.0	96784
680-96831-9 MSD - DL	DD-B-10_SUB	Soluble	Solid	300.0	96784
680-96831-10	DD-B-10_SUB DUP	Soluble	Solid	300.0	96784
680-96831-10 - DL	DD-B-10_SUB DUP	Soluble	Solid	300.0	96784
LCS 160-96784/2-A	Lab Control Sample	Soluble	Solid	300.0	96784
MB 160-96784/1-A	Method Blank	Soluble	Solid	300.0	96784

Rad

Prep Batch: 90415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	PrecSep-21	
LCS 160-90415/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
MB 160-90415/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 90417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	PrecSep_0	
LCS 160-90417/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-90417/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Leach Batch: 91135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6	DD-B-8_SS	Total/NA	Solid	Dry and Grind	
680-96831-6 DU	DD-B-8_SS	Total/NA	Solid	Dry and Grind	
680-96831-7	DD-B-8_SUB	Total/NA	Solid	Dry and Grind	
680-96831-7 DU	DD-B-8_SUB	Total/NA	Solid	Dry and Grind	

Prep Batch: 92022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6	DD-B-8_SS	Total/NA	Solid	DPS-21	91135
680-96831-7	DD-B-8_SUB	Total/NA	Solid	DPS-21	91135
680-96831-7 DU	DD-B-8_SUB	Total/NA	Solid	DPS-21	91135
LCS 160-92022/2-A	Lab Control Sample	Total/NA	Solid	DPS-21	
MB 160-92022/1-A	Method Blank	Total/NA	Solid	DPS-21	

Prep Batch: 92024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6	DD-B-8_SS	Total/NA	Solid	DPS-0	91135
680-96831-7	DD-B-8_SUB	Total/NA	Solid	DPS-0	91135
680-96831-7 DU	DD-B-8_SUB	Total/NA	Solid	DPS-0	91135
LCS 160-92024/2-A	Lab Control Sample	Total/NA	Solid	DPS-0	
MB 160-92024/1-A	Method Blank	Total/NA	Solid	DPS-0	

Prep Batch: 94280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6	DD-B-8_SS	Total/NA	Solid	Thin_Layer	91135
680-96831-7	DD-B-8_SUB	Total/NA	Solid	Thin_Layer	91135
LCS 160-94280/2-A	Lab Control Sample	Total/NA	Solid	Thin_Layer	
MB 160-94280/1-A	Method Blank	Total/NA	Solid	Thin_Layer	

Prep Batch: 94333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6	DD-B-8_SS	Total/NA	Solid	Fill_Geo-21	91135
680-96831-7	DD-B-8_SUB	Total/NA	Solid	Fill_Geo-21	91135
LCS 160-94333/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-94333/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Prep Batch: 94337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	Fill_Geo-21	
LCS 160-94337/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-21	
MB 160-94337/1-A	Method Blank	Total/NA	Water	Fill_Geo-21	

Prep Batch: 95516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	Evaporation	
LCS 160-95516/2-A	Lab Control Sample	Total/NA	Water	Evaporation	

Rad (Continued)

Prep Batch: 95516 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSB 160-95516/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-95516/1-A	Method Blank	Total/NA	Water	Evaporation	

Prep Batch: 97007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-97007/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-97007/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-97007/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 97453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6	DD-B-8_SS	Total/NA	Solid	ExtChrom	91135
680-96831-6 DU	DD-B-8_SS	Total/NA	Solid	ExtChrom	91135
680-96831-7	DD-B-8_SUB	Total/NA	Solid	ExtChrom	91135
LCS 160-97453/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-97453/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 97859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-6	DD-B-8_SS	Total/NA	Solid	ExtChrom	91135
680-96831-6 DU	DD-B-8_SS	Total/NA	Solid	ExtChrom	91135
680-96831-7	DD-B-8_SUB	Total/NA	Solid	ExtChrom	91135
LCS 160-97859/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-97859/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 100386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96831-11	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-100386/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-100386/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-100386/1-A	Method Blank	Total/NA	Water	ExtChrom	

Client Sample ID: NE-B-5_SS

Lab Sample ID: 680-96831-1

Date Collected: 12/04/13 14:50

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			33530	01/09/14 14:14	TGL	TAL SAC
Total/NA	Analysis	1668C		1	35526	02/05/14 02:24	KSS	TAL SAC
Total/NA	Prep	7471B			90474	12/09/13 13:36	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:48	MTS	TAL SL
Total/NA	Prep	3050B			91720	12/13/13 08:38	WA1	TAL SL
Total/NA	Analysis	6020A		10	95497	12/31/13 04:43	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 00:03	KLE	TAL SL
Total/NA	Prep	3050B	RE		95958	01/03/14 09:27	WA1	TAL SL
Total/NA	Analysis	6020A	RE	10	97827	01/11/14 05:48	CCB	TAL SL
Total/NA	Prep	3050B			91719	12/13/13 08:34	WA1	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 19:17	KLE	TAL SL
Total/NA	Prep	3050B	RE		99087	01/16/14 15:30	MTS	TAL SL
Total/NA	Analysis	6010C	RE	5	99784	01/17/14 13:48	FLC	TAL SL
Total/NA	Analysis	Moisture		1	90314	12/07/13 07:31	SDB	TAL SL
Soluble	Leach	DI Leach	DL		96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97845	01/10/14 12:25	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	97845	01/10/14 12:40	AMF	TAL SL

Client Sample ID: NE-B-5_SUB

Lab Sample ID: 680-96831-2

Date Collected: 12/04/13 15:45

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90474	12/09/13 13:36	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:53	MTS	TAL SL
Total/NA	Prep	3050B			91720	12/13/13 08:38	WA1	TAL SL
Total/NA	Analysis	6020A		10	95497	12/31/13 04:50	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 00:07	KLE	TAL SL
Total/NA	Prep	3050B	RE		95958	01/03/14 09:27	WA1	TAL SL
Total/NA	Analysis	6020A	RE	10	97827	01/11/14 05:55	CCB	TAL SL
Total/NA	Prep	3050B			91719	12/13/13 08:34	WA1	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 19:21	KLE	TAL SL
Total/NA	Prep	3050B	RE		99087	01/16/14 15:30	MTS	TAL SL
Total/NA	Analysis	6010C	RE	5	99784	01/17/14 13:51	FLC	TAL SL
Total/NA	Analysis	Moisture		1	91069	12/11/13 08:04	SDB	TAL SL
Soluble	Leach	DI Leach			96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0		1	97845	01/10/14 12:54	AMF	TAL SL
Soluble	Leach	DI Leach	DL		96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97845	01/10/14 13:09	AMF	TAL SL

Client Sample ID: NE-B-4_SS

Lab Sample ID: 680-96831-3

Date Collected: 12/04/13 13:15

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			33530	01/09/14 14:14	TGL	TAL SAC
Total/NA	Analysis	1668C		1	35526	02/05/14 03:40	KSS	TAL SAC
Total/NA	Prep	7471B			90474	12/09/13 13:36	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:55	MTS	TAL SL
Total/NA	Prep	3050B			91720	12/13/13 08:38	WA1	TAL SL
Total/NA	Analysis	6020A		10	95497	12/31/13 05:10	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 00:11	KLE	TAL SL
Total/NA	Prep	3050B	RE		95958	01/03/14 09:27	WA1	TAL SL
Total/NA	Analysis	6020A	RE	10	97827	01/11/14 06:02	CCB	TAL SL
Total/NA	Prep	3050B			91719	12/13/13 08:34	WA1	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 19:25	KLE	TAL SL
Total/NA	Prep	3050B	RE		99087	01/16/14 15:30	MTS	TAL SL
Total/NA	Analysis	6010C	RE	5	99784	01/17/14 14:03	FLC	TAL SL
Total/NA	Analysis	Moisture		1	90314	12/07/13 07:31	SDB	TAL SL
Soluble	Leach	DI Leach	DL		96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97845	01/10/14 13:24	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0	DL2	200	97845	01/10/14 13:39	AMF	TAL SL

Client Sample ID: NE-B-4_SUB

Lab Sample ID: 680-96831-4

Date Collected: 12/04/13 14:20

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90474	12/09/13 13:36	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 12:56	MTS	TAL SL
Total/NA	Prep	3050B			91720	12/13/13 08:38	WA1	TAL SL
Total/NA	Analysis	6020A		10	95497	12/31/13 05:17	CCB	TAL SL
Total/NA	Prep	3050B			91719	12/13/13 08:34	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 00:14	KLE	TAL SL
Total/NA	Prep	3050B	RE		95958	01/03/14 09:27	WA1	TAL SL
Total/NA	Analysis	6020A	RE	10	97827	01/11/14 06:08	CCB	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 19:29	KLE	TAL SL
Total/NA	Prep	3050B	RE		99087	01/16/14 15:30	MTS	TAL SL
Total/NA	Analysis	6010C	RE	5	99784	01/17/14 14:07	FLC	TAL SL
Total/NA	Analysis	Moisture		1	90314	12/07/13 07:31	SDB	TAL SL
Soluble	Leach	DI Leach	DL		96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97845	01/10/14 13:54	AMF	TAL SL

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: NE-B-4_SUB DUP

Lab Sample ID: 680-96831-5

Date Collected: 12/04/13 14:20
Matrix: Solid
Date Received: 12/06/13 09:10
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90474	12/09/13 13:36	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 13:03	MTS	TAL SL
Total/NA	Prep	3050B			91720	12/13/13 08:38	WA1	TAL SL
Total/NA	Analysis	6020A		10	95497	12/31/13 05:44	CCB	TAL SL
Total/NA	Prep	3050B			91719	12/13/13 08:34	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 00:29	KLE	TAL SL
Total/NA	Prep	3050B	RE		95958	01/03/14 09:27	WA1	TAL SL
Total/NA	Analysis	6020A	RE	10	97827	01/11/14 06:49	CCB	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 19:52	KLE	TAL SL
Total/NA	Prep	3050B	RE		99087	01/16/14 15:30	MTS	TAL SL
Total/NA	Analysis	6010C	RE	5	99784	01/17/14 14:22	FLC	TAL SL
Total/NA	Analysis	Moisture		1	90314	12/07/13 07:31	SDB	TAL SL
Soluble	Leach	DI Leach	DL		96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97845	01/10/14 15:09	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	97845	01/10/14 15:24	AMF	TAL SL

Client Sample ID: DD-B-8_SS

Lab Sample ID: 680-96831-6

Date Collected: 12/04/13 11:20
Matrix: Solid
Date Received: 12/06/13 09:10
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			92812	12/18/13 11:29	CNS	TAL SL
Total/NA	Analysis	8270D		1	93362	12/18/13 23:49	JSW	TAL SL
Total/NA	Prep	8290			33065	01/02/14 13:23	TGL	TAL SAC
Total/NA	Analysis	8290A		1	33612	01/09/14 22:50	JRB	TAL SAC
Total/NA	Prep	8290	RA		33065	01/02/14 13:23	TGL	TAL SAC
Total/NA	Analysis	8290A	RA	1	34065	01/16/14 04:15	JRB	TAL SAC
Total/NA	Prep	HRMS-Sox			33078	01/02/14 14:13	TGL	TAL SAC
Total/NA	Analysis	1668C		10	35731	02/06/14 17:45	KSS	TAL SAC
Total/NA	Prep	7471B			90474	12/09/13 13:36	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 13:05	MTS	TAL SL
Total/NA	Prep	3050B			91720	12/13/13 08:38	WA1	TAL SL
Total/NA	Analysis	6020A		10	95497	12/31/13 05:50	CCB	TAL SL
Total/NA	Prep	3050B			91719	12/13/13 08:34	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 00:41	KLE	TAL SL
Total/NA	Prep	3050B	RE		95958	01/03/14 09:27	WA1	TAL SL
Total/NA	Analysis	6020A	RE	10	97827	01/11/14 06:56	CCB	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 19:55	KLE	TAL SL
Total/NA	Prep	3050B	RE		99087	01/16/14 15:30	MTS	TAL SL
Total/NA	Analysis	6010C	RE	5	99784	01/17/14 14:26	FLC	TAL SL
Total/NA	Analysis	Moisture		1	90314	12/07/13 07:31	SDB	TAL SL
Soluble	Leach	DI Leach			96784	01/08/14 14:27	AMF	TAL SL

Client Sample ID: DD-B-8_SS

Lab Sample ID: 680-96831-6

Date Collected: 12/04/13 11:20
Matrix: Solid
Date Received: 12/06/13 09:10
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	300.0		1	97845	01/10/14 15:39	AMF	TAL SL
Total/NA	Prep	Thin_Layer			94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	94285	12/23/13 18:49	MLK	TAL SL
Total/NA	Leach	Dry and Grind			91135	12/11/13 13:38	DRO	TAL SL
Total/NA	Prep	DPS-21			92022	12/13/13 15:38	RLS	TAL SL
Total/NA	Analysis	903.0		1	96777	01/08/14 16:22	RTM	TAL SL
Total/NA	Leach	Dry and Grind			91135	12/11/13 13:38	DRO	TAL SL
Total/NA	Prep	DPS-0			92024	12/13/13 14:41	RLS	TAL SL
Total/NA	Analysis	904.0		1	96785	01/08/14 12:16	RTM	TAL SL
Total/NA	Leach	Dry and Grind			91135	12/11/13 13:38	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98109	01/14/14 21:59	EMN	TAL SL
Total/NA	Leach	Dry and Grind			91135	12/11/13 13:38	DRO	TAL SL
Total/NA	Prep	ExtChrom			97859	01/10/14 14:41	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	99261	01/17/14 20:37	LES	TAL SL
Total/NA	Prep	ExtChrom			97453	01/10/14 14:41	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	99547	01/18/14 16:41	MLK	TAL SL

Client Sample ID: DD-B-8_SUB

Lab Sample ID: 680-96831-7

Date Collected: 12/04/13 12:30
Matrix: Solid
Date Received: 12/06/13 09:10
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90474	12/09/13 13:36	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 13:06	MTS	TAL SL
Total/NA	Prep	3050B			91720	12/13/13 08:38	WA1	TAL SL
Total/NA	Analysis	6020A		10	95497	12/31/13 05:57	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 00:45	KLE	TAL SL
Total/NA	Prep	3050B	RE		95958	01/03/14 09:27	WA1	TAL SL
Total/NA	Analysis	6020A	RE	10	97827	01/11/14 07:03	CCB	TAL SL
Total/NA	Prep	3050B			91719	12/13/13 08:34	WA1	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 19:59	KLE	TAL SL
Total/NA	Prep	3050B	RE		99087	01/16/14 15:30	MTS	TAL SL
Total/NA	Analysis	6010C	RE	5	99784	01/17/14 14:30	FLC	TAL SL
Total/NA	Analysis	Moisture		1	90314	12/07/13 07:31	SDB	TAL SL
Soluble	Leach	DI Leach			96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0		1	97845	01/10/14 15:54	AMF	TAL SL
Total/NA	Leach	Dry and Grind			91135	12/11/13 13:38	DRO	TAL SL
Total/NA	Prep	Thin_Layer			94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	94348	12/23/13 19:01	RTM	TAL SL
Total/NA	Leach	Dry and Grind			91135	12/11/13 13:38	DRO	TAL SL
Total/NA	Prep	DPS-21			92022	12/13/13 15:38	RLS	TAL SL
Total/NA	Analysis	903.0		1	96777	01/08/14 16:22	RTM	TAL SL
Total/NA	Leach	Dry and Grind			91135	12/11/13 13:38	DRO	TAL SL

Client Sample ID: DD-B-8_SUB

Lab Sample ID: 680-96831-7

Date Collected: 12/04/13 12:30

Matrix: Solid

Date Received: 12/06/13 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-0			92024	12/13/13 14:41	RLS	TAL SL
Total/NA	Analysis	904.0		1	96785	01/08/14 12:16	RTM	TAL SL
Total/NA	Leach	Dry and Grind			91135	12/11/13 13:38	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98110	01/14/14 22:00	EMN	TAL SL
Total/NA	Prep	ExtChrom			97859	01/10/14 14:41	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	99263	01/17/14 20:37	LES	TAL SL
Total/NA	Leach	Dry and Grind			91135	12/11/13 13:38	DRO	TAL SL
Total/NA	Prep	ExtChrom			97453	01/10/14 14:41	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	99568	01/18/14 16:41	MLK	TAL SL

Client Sample ID: DD-B-10_SS

Lab Sample ID: 680-96831-8

Date Collected: 12/04/13 09:45

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			33530	01/09/14 14:14	TGL	TAL SAC
Total/NA	Analysis	1668C		1	35526	02/05/14 04:55	KSS	TAL SAC
Total/NA	Prep	7471B			90474	12/09/13 13:36	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 13:08	MTS	TAL SL
Total/NA	Prep	3050B			91720	12/13/13 08:38	WA1	TAL SL
Total/NA	Analysis	6020A		10	95497	12/31/13 06:04	CCB	TAL SL
Total/NA	Prep	3050B			91719	12/13/13 08:34	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 00:49	KLE	TAL SL
Total/NA	Prep	3050B	RE		95958	01/03/14 09:27	WA1	TAL SL
Total/NA	Analysis	6020A	RE	10	97827	01/11/14 07:09	CCB	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 20:03	KLE	TAL SL
Total/NA	Prep	3050B	RE		99087	01/16/14 15:30	MTS	TAL SL
Total/NA	Analysis	6010C	RE	5	99784	01/17/14 14:34	FLC	TAL SL
Total/NA	Analysis	Moisture		1	90314	12/07/13 07:31	SDB	TAL SL
Soluble	Leach	DI Leach			96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0		1	97845	01/10/14 16:08	AMF	TAL SL

Client Sample ID: DD-B-10_SUB

Lab Sample ID: 680-96831-9

Date Collected: 12/04/13 10:55

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	RE		99806	01/20/14 12:07	MTS	TAL SL
Total/NA	Analysis	6020A	RE	10	100300	01/20/14 18:47	CCB	TAL SL
Total/NA	Prep	7471B			91133	12/11/13 13:37	MTS	TAL SL
Total/NA	Analysis	7471B		1	92199	12/15/13 14:08	MTS	TAL SL
Total/NA	Prep	3050B			91720	12/13/13 08:38	WA1	TAL SL

Client Sample ID: DD-B-10_SUB

Lab Sample ID: 680-96831-9

Date Collected: 12/04/13 10:55

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6020A		10	95497	12/31/13 06:10	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 00:53	KLE	TAL SL
Total/NA	Prep	3050B			91719	12/13/13 08:34	WA1	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 20:07	KLE	TAL SL
Total/NA	Prep	3050B	RE		99087	01/16/14 15:30	MTS	TAL SL
Total/NA	Analysis	6010C	RE	5	99784	01/17/14 14:37	FLC	TAL SL
Total/NA	Analysis	Moisture		1	90314	12/07/13 07:31	SDB	TAL SL
Soluble	Leach	DI Leach			96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0		1	97845	01/10/14 16:23	AMF	TAL SL
Soluble	Leach	DI Leach	DL		96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97845	01/10/14 16:38	AMF	TAL SL

Client Sample ID: DD-B-10_SUB DUP

Lab Sample ID: 680-96831-10

Date Collected: 12/04/13 10:55

Matrix: Solid

Date Received: 12/06/13 09:10

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90474	12/09/13 13:36	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 13:18	MTS	TAL SL
Total/NA	Prep	3050B			91720	12/13/13 08:38	WA1	TAL SL
Total/NA	Analysis	6020A		10	95497	12/31/13 06:44	CCB	TAL SL
Total/NA	Prep	3050B			91719	12/13/13 08:34	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 01:04	KLE	TAL SL
Total/NA	Prep	3050B	RE		95958	01/03/14 09:27	WA1	TAL SL
Total/NA	Analysis	6020A	RE	10	97827	01/11/14 07:23	CCB	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 20:18	KLE	TAL SL
Total/NA	Prep	3050B	RE		99087	01/16/14 15:30	MTS	TAL SL
Total/NA	Analysis	6010C	RE	5	99784	01/17/14 14:56	FLC	TAL SL
Total/NA	Analysis	Moisture		1	90314	12/07/13 07:31	SDB	TAL SL
Soluble	Leach	DI Leach			96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0		1	97845	01/10/14 18:23	AMF	TAL SL
Soluble	Leach	DI Leach	DL		96784	01/08/14 14:27	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	97845	01/10/14 18:38	AMF	TAL SL

Client Sample ID: RINSATE

Lab Sample ID: 680-96831-11

Date Collected: 12/05/13 12:30

Matrix: Water

Date Received: 12/06/13 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			91108	12/11/13 11:45	CNS	TAL SL
Total/NA	Analysis	8270D		1	91425	12/11/13 22:01	MAK	TAL SL
Total/NA	Prep	8290			31992	12/16/13 16:32	CCC	TAL SAC
Total/NA	Analysis	8290A		1	33676	01/10/14 03:07	JRB	TAL SAC

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: RINSATE
Date Collected: 12/05/13 12:30
Date Received: 12/06/13 09:10

Lab Sample ID: 680-96831-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sep			32034	12/17/13 10:53	CCC	TAL SAC
Total/NA	Analysis	1668C		1	35058	01/31/14 03:36	KSS	TAL SAC
Total/NA	Prep	7470A			90942	12/10/13 09:56	MTS	TAL SL
Total/NA	Analysis	7470A		1	91160	12/11/13 14:19	MTS	TAL SL
Total/NA	Prep	3010A			96024	01/03/14 17:29	KLE	TAL SL
Total/NA	Analysis	6020A		1	96993	01/09/14 00:46	CCB	TAL SL
Total/NA	Prep	3010A			96025	01/03/14 17:29	KLE	TAL SL
Total/NA	Analysis	6010C		1	97021	01/08/14 13:47	KLE	TAL SL
Total/NA	Analysis	300.0		1	93476	12/06/13 13:37	AMF	TAL SL
Total/NA	Prep	ExtChrom			100386	01/22/14 08:57	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100997	01/23/14 22:10	LES	TAL SL
Total/NA	Prep	PrecSep_0			90417	12/09/13 11:40	RLS	TAL SL
Total/NA	Analysis	904.0		1	95465	12/30/13 11:01	RTM	TAL SL
Total/NA	Prep	PrecSep-21			90415	12/09/13 11:35	RLS	TAL SL
Total/NA	Analysis	903.0		1	95535	12/31/13 07:56	RTM	TAL SL
Total/NA	Prep	Evaporation			95516	12/31/13 12:16	MJS	TAL SL
Total/NA	Analysis	900.0		1	95840	01/02/14 18:31	RTM	TAL SL
Total/NA	Prep	Fill_Geo-21			94337	12/23/13 17:56	MJS	TAL SL
Total/NA	Analysis	901.1		1	97579	01/11/14 04:32	SMP	TAL SL
Total/NA	Prep	ExtChrom			97007	01/09/14 09:41	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	98994	01/16/14 23:39	LES	TAL SL

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkoy	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96831
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	200, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (GOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	5010C, 8020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of Containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	F	N	N			
NE-B-5_SS	12-4-13	0-0.5	Northeast Property	1450	C/G	S				1				1	1							3	120g, 60g
NE-B-5_SUB	12-4-13	1-6	Northeast Property	1545	C/G	S				1				1								2	Did NOT receive 12-6-13
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congener, jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 12/5/2013 0800	Company: GEI	Received by: J. Shelby	Date/Time: 12/5/2013 0800 Company: GEI
Relinquished by: J. Shelby	Date/Time: 12/5/2013 1300	Company: GEI	Received by:	Date/Time: 12/6/13 1300 Company: FA
Relinquished by:	Date/Time: 12/6/13 1600	Company: FA	Received by: Jill Clark	Date/Time: 12-6-13 0910 Company:
Custody Seals Intact: △ Yes △ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 4.2°C / 3.7°C	

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.		Analysis Requested		Job #: 680 - 9,831
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9275 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_Tot$_Mass (Anions / Total Uranium)	901.1_Ra - (SOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	8260C - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	N	P	J	F	N	N		
NE-B-4_SS	12-4-13	0-0.5	Northeast Property	1315	C/G	S				1					1	1							6	120g, 60g
NE-B-4_SUB		1-6	Northeast Property	1420	C/G	S		X		1					1								2	
NE-B-4_SUB DUP		1-6	Northeast Property	1420	C/G	S				1					1								2	
NE-B-4_SUB MS		1-6	Northeast Property	1420	C/G	S				1					1								2	
NE-B-4_SUB MSD		1-6	Northeast Property	1420	C/G	S				1					1								2	
																							0	
																							0	
																							0	
																							0	
																							0	
																							0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12/5/2013 0800	Company: GEI	Received by: J. Shelkey	Date/Time: 12/5/2013 0800	Company: GEI
Relinquished by: J. Shelkey	Date/Time: 12/5/2013 1300	Company: GEI	Received by:	Date/Time: 12/5/13 1300	Company:
Relinquished by:	Date/Time: 12/5/13 1400	Company: TA	Received by: Bill Clark	Date/Time: 12.6.13 0910	Company:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.2 c / 3.7 c

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96831
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	100, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (GOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of Containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	P	J	F	N	N		
DD-8-8_SS -	12-4-13	0-0.5	Drainage Ditches	1120	C/G	S			1	1	2	1		1	1						^	7	2x500p, 4x120g
DD-8-8_SUB	12-4-13	10-15	Drainage Ditches	1230	C/G	S			1	1	2			1								5	2x500p, 2x120g, 60g
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 12/5/2013 0800	Company: GEI	Received by: J. Shelkey	Date/Time: 12/5/2013 0800	Company: GEI		
Relinquished by: J. Shelkey	Date/Time: 12/5/2013 1300	Company: GEI	Received by:	Date/Time: 12/6/13 1300	Company:		
Relinquished by:	Date/Time: 12/5/13 1600 PT	Company:	Received by:	Date/Time: 12-6-13 0910	Company: TASTL		

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.2°C / 3.7°C

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680 - 96831
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (NOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1656D (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	J	F	N	N		
DD-B-10_SS	12-4-13	0-05	Drainage Ditches	0845	C/G	S				1				1	1							3	120,60
DD-B-10_SUB		10-15	Drainage Ditches	1055	C/G	S		X		1				1								2	↓
DD-B-10_SUB DUP		10-15	Drainage Ditches	1055	C/G	S				1				1								2	2x120
DD-B-10_SUB MS		10-15	Drainage Ditches	1055	C/G	S				1				1								2	120,60
DD-B-10_SUB MSD		10-15	Drainage Ditches	1055	C/G	S				1				1								2	↓
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 12/5/2013 0800	Company: GEI	Received by: J. Shelkey
Relinquished by: J. Shelkey	Date/Time: 12/5/2013 1300	Company: GEI	Received by:
Relinquished by:	Date/Time: 12/6/13 1400	Company: TA	Received by: Jill Clarke

Received by: J. Shelkey	Date/Time: 12/5/2013 0800	Company: GEI		
Received by:	Date/Time: 12/5/13 1300	Company:		
Received by: Jill Clarke	Date/Time: 12-6-13 0910	Company: TA SR		

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 4.2°C / 3.7°C

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51811-23157.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96831
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	A01R_U - (MOD) Local Method (Radionuclides)	A01R_Th - Standard Target List (Radionuclides)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	904.0 - Standard Target List (Radionuclides)	903.0 - Standard Target List (Radionuclides)	300 - (MOD) Local Method (Anions)	6010C, 6020A, 7470A (Metals)	900.0 - Standard Target List (Radionuclides)	8260C - OLM 4.2 (VOCs)	1668C (PCB Congeners)	8082A (PCB Aroclors)	8270D SVOCs (Project list to include PAHs)	8290 (Dioxins)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D	D	D	N	D	D	A	N	N	N	N		
RINSATE			G	Water	N	N	1	1	1	1	1	1	1	1	3	2	1	2	2	18	2xLg, 5xLp, 500p, 250pNitric 250pan pres

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive **Until GEI releases for disposal.**

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: J. Shelkey	Date/Time: 12/5/2013 1300	Company: GEI	Received by: [signature]	Date/Time: 12/5/13 1300	Company: TA
Relinquished by: [signature]	Date/Time: 12/5/13 1600	Company: TA	Received by: Bill Clark	Date/Time: 12.6.13 0910	Company: TA STL
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.2°C / 3.7°C

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96831-1

Login Number: 96831

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Sample -2 was received on 12/07 @ 1010.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	No containers received to run 8260 for the RINSATE.
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96831-1

Login Number: 96831
List Number: 1
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento
List Creation: 12/06/13 04:46 PM

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.	N/A	
Sample custody seals, if present, are intact.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96831-1

Login Number: 96831
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 12/06/13 03:05 PM

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.	N/A	
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	4.2, 3.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Did not receive vials for Rinsate Blank, Missing NE-B-5_Sub, to arrive 12/7/13
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96831-1

Login Number: 96831
List Number: 2
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 12/07/13 11:33 AM

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-15
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	06-30-14
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	04-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	03-31-14
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14 *
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia DEP	State Program	3	94	06-30-14
West Virginia DHHR	State Program	3	9950C	12-31-13 *
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

Laboratory: TestAmerica Sacramento

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

* Expired certification is currently pending renewal and is considered valid.

Laboratory: TestAmerica Sacramento (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	03-31-14
Alaska (UST)	State Program	10	UST-055	02-28-14 *
Arizona	State Program	9	AZ0708	08-11-14
Arkansas DEQ	State Program	6	88-0691	06-17-14
California	State Program	9	2897	01-31-15
Colorado	State Program	8	N/A	08-31-14
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-14
Guam	State Program	9	N/A	08-31-14
Hawaii	State Program	9	N/A	01-29-15
Illinois	NELAP	5	200060	03-17-15
Kansas	NELAP	7	E-10375	10-31-14
Louisiana	NELAP	6	30612	06-30-14
Michigan	State Program	5	9947	02-28-14 *
Nebraska	State Program	7	NE-OS-22-13	02-28-14 *
Nevada	State Program	9	CA44	07-31-14
New Jersey	NELAP	2	CA005	06-30-14
New York	NELAP	2	11666	03-31-14
Northern Mariana Islands	State Program	9	MP0007	02-28-14 *
Oregon	NELAP	10	CA200005	01-29-15
Pennsylvania	NELAP	3	68-01272	03-31-14
South Carolina	State Program	4	87014	06-30-14
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-14
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	02-28-15
Washington	State Program	10	C581	05-05-14
West Virginia DHHR	State Program	3	9930C	12-31-14
Wyoming	State Program	8	8TMS-Q	02-28-14 *

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-14
California	NELAP	9	09266CA	03-31-14
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-14
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14
Kentucky (DW)	State Program	4	90125	12-31-14
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	LA140007	12-31-14
Maryland	State Program	3	310	09-30-14
Missouri	State Program	7	780	06-30-14
Nevada	State Program	9	MO000542013-1	07-31-14
New Jersey	NELAP	2	MO002	06-30-14
New Mexico	State Program	6		06-30-10 *

* Expired certification is currently pending renewal and is considered valid.

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11616	04-01-14
North Dakota	State Program	8	R207	06-30-14
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	2013-049	08-31-14
Pennsylvania	NELAP	3	68-00540	02-28-14
South Carolina	State Program	4	85002001	06-30-14
Texas	NELAP	6	T104704193-13-6	07-31-14
USDA	Federal		P330-07-00122	01-09-17
USEPA Reg V SDWA	Federal	1	WG-15J	08-30-14
Utah	NELAP	8	MO000542013-5	07-31-14
Virginia	NELAP	3	2236	06-14-14
Washington	State Program	10	C592	08-30-14
West Virginia DEP	State Program	3	381	02-28-14 *

* Expired certification is currently pending renewal and is considered valid.

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-96831-6	DD-B-8_SS	111 X
680-96831-7	DD-B-8_SUB	111 X
680-96831-7 DU	DD-B-8_SUB	113 X
LCS 160-92022/2-A	Lab Control Sample	109
MB 160-92022/1-A	Method Blank	109

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-96831-11	RINSATE	94.1
LCS 160-90415/2-A	Lab Control Sample	102
MB 160-90415/1-A	Method Blank	93.5

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-96831-6	DD-B-8_SS	111 X	89.7
680-96831-7	DD-B-8_SUB	111 X	90.8
680-96831-7 DU	DD-B-8_SUB	113 X	89.0
LCS 160-92024/2-A	Lab Control Sample	109	89.7
MB 160-92024/1-A	Method Blank	109	90.8

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-96831-11	RINSATE	94.1	85.6
LCS 160-90417/2-A	Lab Control Sample	102	86.7
MB 160-90417/1-A	Method Blank	93.5	85.6

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		Th-229
Lab Sample ID	Client Sample ID	(30-110)
680-96831-6	DD-B-8_SS	70.9
680-96831-6 DU	DD-B-8_SS	74.7
680-96831-7	DD-B-8_SUB	74.8
LCS 160-97453/2-A	Lab Control Sample	85.0
MB 160-97453/1-A	Method Blank	78.3

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		Th-229
Lab Sample ID	Client Sample ID	(30-110)
680-96831-11	RINSATE	78.8
LCS 160-100386/2-A	Lab Control Sample	76.3
LCSD 160-100386/3-A	Lab Control Sample Dup	77.7
MB 160-100386/1-A	Method Blank	83.1

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		U-232
Lab Sample ID	Client Sample ID	(30-110)
680-96831-6	DD-B-8_SS	79.5
680-96831-6 DU	DD-B-8_SS	75.3
680-96831-7	DD-B-8_SUB	82.4
LCS 160-97859/2-A	Lab Control Sample	80.8
MB 160-97859/1-A	Method Blank	78.5

Tracer/Carrier Legend

U-232 = Uranium-232

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		U-232
Lab Sample ID	Client Sample ID	(30-110)
680-96831-11	RINSATE	84.4
LCS 160-97007/2-A	Lab Control Sample	70.2
LCSD 160-97007/3-A	Lab Control Sample Dup	10.8 X
MB 160-97007/1-A	Method Blank	85.8

Tracer/Carrier Legend

U-232 = Uranium-232

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: NE-B-5_SS — Lab Sample ID: 680-96831-1

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		41	TEQ
Total TEQ					pg/g		41	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**5000**	**E G**	83	83	pg/g	0.0001	**0.50**	1668C
PCB-81	**140**	**q G**	83	83	pg/g	0.0003	**0.042**	1668C
PCB-105	**11000**	**E G**	160	160	pg/g	0.00003	**0.33**	1668C
PCB-114	**460**	**G**	150	150	pg/g	0.00003	**0.014**	1668C
PCB-118	**17000**	**E B G**	150	150	pg/g	0.00003	**0.51**	1668C
PCB-123	**330**	**G**	150	150	pg/g	0.00003	**0.0099**	1668C
PCB-126	**390**	**G**	170	170	pg/g	0.1	**39**	1668C
PCB-156/157	**3700**	**G**	26	26	pg/g	0.00003	**0.11**	1668C
PCB-167	**1300**	**G**	20	20	pg/g	0.00003	**0.039**	1668C
PCB-169	25	U G	25	25	pg/g	0.03	0.00	1668C
PCB-189	**280**		4.6	1.5	pg/g	0.00003	**0.0084**	1668C

Client Sample ID: NE-B-4_SS — Lab Sample ID: 680-96831-3

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		7.0	TEQ
Total TEQ					pg/g		7.0	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**1700**	**G**	18	18	pg/g	0.0001	**0.17**	1668C
PCB-81	**58**	**G**	18	18	pg/g	0.0003	**0.017**	1668C
PCB-105	**1700**	**G**	33	33	pg/g	0.00003	**0.051**	1668C
PCB-114	**66**	**G**	31	31	pg/g	0.00003	**0.0020**	1668C
PCB-118	**2300**	**B G**	30	30	pg/g	0.00003	**0.069**	1668C
PCB-123	**54**	**G**	30	30	pg/g	0.00003	**0.0016**	1668C
PCB-126	**67**	**G**	35	35	pg/g	0.1	**6.7**	1668C
PCB-156/157	**470**		8.5	6.8	pg/g	0.00003	**0.014**	1668C
PCB-167	**190**	**G**	5.1	5.1	pg/g	0.00003	**0.0057**	1668C
PCB-169	6.0	U G	6.0	6.0	pg/g	0.03	0.00	1668C
PCB-189	**110**		4.2	1.1	pg/g	0.00003	**0.0033**	1668C

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Client Sample ID: DD-B-8_SS — Lab Sample ID: 680-96831-6

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		34	TEQ
Total PCB TEQ					pg/g		0.073	TEQ
Total TEQ					pg/g		34	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**130**		42	14	pg/g	0.0001	**0.013**	1668C
PCB-81	15	U	42	15	pg/g	0.0003	0.00	1668C
PCB-105	**680**		42	20	pg/g	0.00003	**0.020**	1668C
PCB-114	19	U	42	19	pg/g	0.00003	0.00	1668C
PCB-118	**970**	**B**	42	19	pg/g	0.00003	**0.029**	1668C
PCB-123	17	U q	42	17	pg/g	0.00003	0.00	1668C
PCB-126	26	U	42	26	pg/g	0.1	0.00	1668C
PCB-156/157	**240**		85	10	pg/g	0.00003	**0.0072**	1668C
PCB-167	**93**		42	8.3	pg/g	0.00003	**0.0028**	1668C
PCB-169	9.0	U	42	9.0	pg/g	0.03	0.00	1668C
PCB-189	**36**	**J**	42	10	pg/g	0.00003	**0.0011**	1668C
2,3,7,8-TCDD	**0.98**	**J**	2.1	0.21	pg/g	1	**0.98**	8290A
1,2,3,7,8-PeCDD	**2.5**	**J**	11	0.62	pg/g	1	**2.5**	8290A
1,2,3,7,8-PeCDF	**36**		11	1.4	pg/g	0.03	**1.1**	8290A
2,3,4,7,8-PeCDF	**21**		11	1.5	pg/g	0.3	**6.3**	8290A
1,2,3,4,7,8-HxCDD	**2.1**	**J**	11	0.32	pg/g	0.1	**0.21**	8290A
1,2,3,6,7,8-HxCDD	**4.8**	**J**	11	0.31	pg/g	0.1	**0.48**	8290A
1,2,3,7,8,9-HxCDD	**4.3**	**J**	11	0.27	pg/g	0.1	**0.43**	8290A
1,2,3,4,7,8-HxCDF	**92**		11	3.5	pg/g	0.1	**9.2**	8290A
1,2,3,6,7,8-HxCDF	**51**		11	3.1	pg/g	0.1	**5.1**	8290A
1,2,3,7,8,9-HxCDF	**6.1**	**J**	11	3.6	pg/g	0.1	**0.61**	8290A
2,3,4,6,7,8-HxCDF	**12**		11	3.4	pg/g	0.1	**1.2**	8290A
1,2,3,4,6,7,8-HpCDD	**22**		11	0.44	pg/g	0.01	**0.22**	8290A
1,2,3,4,6,7,8-HpCDF	**200**	**B**	11	2.0	pg/g	0.01	**2.0**	8290A
1,2,3,4,7,8,9-HpCDF	**66**		11	2.5	pg/g	0.01	**0.66**	8290A
OCDD	**77**	**B**	21	0.58	pg/g	0.0003	**0.023**	8290A
OCDF	**1400**		21	8.6	pg/g	0.0003	**0.42**	8290A
2,3,7,8-TCDF - RA	**23**		2.1	0.72	pg/g	0.1	**2.3**	8290A

Client Sample ID: DD-B-10_SS — Lab Sample ID: 680-96831-8

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		12	TEQ
Total TEQ					pg/g		12	TEQ

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client Sample ID: DD-B-10_SS (Continued)

Lab Sample ID: 680-96831-8

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	340	G	9.7	9.7	pg/g	0.0001	0.034	1668C
PCB-81	16	G	9.8	9.8	pg/g	0.0003	0.0048	1668C
PCB-105	1400	G	18	18	pg/g	0.00003	0.042	1668C
PCB-114	50	G	18	18	pg/g	0.00003	0.0015	1668C
PCB-118	2400	B G	17	17	pg/g	0.00003	0.072	1668C
PCB-123	35	G	17	17	pg/g	0.00003	0.0011	1668C
PCB-126	110	G	18	18	pg/g	0.1	11	1668C
PCB-156/157	570	G	9.1	9.1	pg/g	0.00003	0.017	1668C
PCB-167	240	G	7.0	7.0	pg/g	0.00003	0.0072	1668C
PCB-169	21	q G	8.1	8.1	pg/g	0.03	0.63	1668C
PCB-189	90		4.2	2.3	pg/g	0.00003	0.0027	1668C

Client Sample ID: RINSATE

Lab Sample ID: 680-96831-11

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	100		19	7.1	pg/L	0.0001	0.010	1668C
PCB-81	6.9	U	19	6.9	pg/L	0.0003	0.00	1668C
PCB-105	400		19	9.9	pg/L	0.00003	0.012	1668C
PCB-114	21		19	9.4	pg/L	0.00003	0.00063	1668C
PCB-118	680	B	19	9.0	pg/L	0.00003	0.020	1668C
PCB-123	14	J	19	9.2	pg/L	0.00003	0.00042	1668C
PCB-126	15	J	19	12	pg/L	0.1	1.5	1668C
PCB-156/157	65		39	2.9	pg/L	0.00003	0.0020	1668C
PCB-167	20		19	2.2	pg/L	0.00003	0.00060	1668C
PCB-169	2.9	U	19	2.9	pg/L	0.03	0.00	1668C
PCB-189	2.1	U	19	2.1	pg/L	0.00003	0.00	1668C
2,3,7,8-TCDD	0.14	U	9.5	0.14	pg/L	1	0.00	8290A
2,3,7,8-TCDF	0.088	U	9.5	0.088	pg/L	0.1	0.00	8290A
1,2,3,7,8-PeCDD	0.19	U	47	0.19	pg/L	1	0.00	8290A
1,2,3,7,8-PeCDF	0.13	U	47	0.13	pg/L	0.03	0.00	8290A
2,3,4,7,8-PeCDF	0.13	U	47	0.13	pg/L	0.3	0.00	8290A
1,2,3,4,7,8-HxCDD	0.13	U	47	0.13	pg/L	0.1	0.00	8290A
1,2,3,6,7,8-HxCDD	0.12	U	47	0.12	pg/L	0.1	0.00	8290A
1,2,3,7,8,9-HxCDD	0.11	U	47	0.11	pg/L	0.1	0.00	8290A
1,2,3,4,7,8-HxCDF	0.70	J B	47	0.11	pg/L	0.1	0.070	8290A
1,2,3,6,7,8-HxCDF	0.29	J q	47	0.092	pg/L	0.1	0.029	8290A
1,2,3,7,8,9-HxCDF	0.11	U	47	0.11	pg/L	0.1	0.00	8290A
2,3,4,6,7,8-HxCDF	0.10	U	47	0.10	pg/L	0.1	0.00	8290A
1,2,3,4,6,7,8-HpCDD	0.83	J B	47	0.16	pg/L	0.01	0.0083	8290A
1,2,3,4,6,7,8-HpCDF	1.3	J q B	47	0.12	pg/L	0.01	0.013	8290A
1,2,3,4,7,8,9-HpCDF	0.14	U	47	0.14	pg/L	0.01	0.00	8290A
OCDD	7.6	J B	95	0.17	pg/L	0.0003	0.0023	8290A
OCDF	1.7	J q B	95	0.17	pg/L	0.0003	0.00051	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-202L	PCB-3L	PCB-118L	PCB-126L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)
680-96831-1	NE-B-5_SS	44	72	98	96	108	45	95	102
680-96831-3	NE-B-4_SS	42	65	88	87	90	42	88	95
680-96831-6	DD-B-8_SS	42	60	74	69	80	49	70	68
680-96831-8	DD-B-10_SS	27	30	30	30	29	29	30	37
MB 320-33078/1-A	Method Blank	37	53	61	60	60	42	61	67
MB 320-33530/1-A	Method Blank	43	55	63	62	74	47	62	69

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-206L	PCB-169L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(5-145)	(5-145)	(10-145)	(5-145)	(10-145)	(10-145)
680-96831-1	NE-B-5_SS	89	95	87	60	103	57	96	95
680-96831-3	NE-B-4_SS	85	100	81	57	80	50	93	92
680-96831-6	DD-B-8_SS	84	93	56	51	68	47	81	83
680-96831-8	DD-B-10_SS	35	39	26	28	24	22	35	34
MB 320-33078/1-A	Method Blank	75	88	59	47	50	47	76	73
MB 320-33530/1-A	Method Blank	90	74	52	55	61	44	70	67

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)	(10-145)
680-96831-1	NE-B-5_SS	75	99	97	104	36	69	101	102
680-96831-3	NE-B-4_SS	75	91	89	96	25	58	101	100
680-96831-6	DD-B-8_SS	93	71	70	89	39	53	66	67
680-96831-8	DD-B-10_SS	30	34	31	35	27	22	30	30
MB 320-33078/1-A	Method Blank	69	68	63	70	31	50	62	62
MB 320-33530/1-A	Method Blank	81	73	65	87	38	48	59	59

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)
680-96831-1	NE-B-5_SS	91	77
680-96831-3	NE-B-4_SS	87	68
680-96831-6	DD-B-8_SS	85	62
680-96831-8	DD-B-10_SS	36	21
MB 320-33078/1-A	Method Blank	73	55
MB 320-33530/1-A	Method Blank	83	49

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-202L = PCB-202L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-206L = PCB-206L
PCB-169L = PCB-169L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L

PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-33078/2-A	Lab Control Sample	39	53	61	60	44	61	67	56
LCS 320-33530/2-A	Lab Control Sample	39	44	47	47	42	47	50	56

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-33078/2-A	Lab Control Sample	94	81	57	46	48	40 q	78	75
LCS 320-33530/2-A	Lab Control Sample	61	70	41	46	47	35	57	54

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-33078/2-A	Lab Control Sample	74	78	63	77	34	44	61	62
LCS 320-33530/2-A	Lab Control Sample	65	58	48	68	36	37 *	43	43

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)
LCS 320-33078/2-A	Lab Control Sample	82	51
LCS 320-33530/2-A	Lab Control Sample	66	40

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L

PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-1L	PCB-3L	PCB-4L	PCB-15L	PCB-19L	PCB-37L	PCB-54L	PCB-77L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(10-145)
680-96831-11	RINSATE	49	59	56	74	61	72	53	78
MB 320-32034/1-A	Method Blank	60	66	71	80	80	75	71	79

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-81L	PCB-104L	PCB-105L	PCB-114L	PCB-118L	PCB-123L	PCB-126L	PCB-155L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)
680-96831-11	RINSATE	77	61	75	73	74	74	73	65
MB 320-32034/1-A	Method Blank	77	71	81	80	81	81	78	72

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		CB-156L/15	PCB-167L	PCB-169L	PCB-188L	PCB-189L	PCB-202L	PCB-205L	PCB-206L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)
680-96831-11	RINSATE	81	80	79	64	73	71	81	80
MB 320-32034/1-A	Method Blank	79	80	73	96	82	102	84	81

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-208L	PCB-209L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)
680-96831-11	RINSATE	81	78
MB 320-32034/1-A	Method Blank	95	75

Surrogate Legend

PCB-1L = PCB-1L
PCB-3L = PCB-3L
PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-19L = PCB-19L
PCB-37L = PCB-37L
PCB-54L = PCB-54L
PCB-77L = PCB-77L
PCB-81L = PCB-81L
PCB-104L = PCB-104L
PCB-105L = PCB-105L
PCB-114L = PCB-114L
PCB-118L = PCB-118L
PCB-123L = PCB-123L
PCB-126L = PCB-126L
PCB-155L = PCB-155L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-169L = PCB-169L
PCB-188L = PCB-188L

PCB-189L = PCB-189L
PCB-202L = PCB-202L
PCB-205L = PCB-205L
PCB-206L = PCB-206L
PCB-208L = PCB-208L
PCB-209L = PCB-209L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-32034/2-A	Lab Control Sample	59	71	79	78	57	79	76	99

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-32034/2-A	Lab Control Sample	71	79	69	67	95	63	77	77

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-32034/2-A	Lab Control Sample	73	79	78	92	49	66	76	75

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)
LCS 320-32034/2-A	Lab Control Sample	82	71

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96831-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDD2 (40-135)	TCDD (40-135)	PeCDD (40-135)	HpCDF1 (40-135)	PeCDF1 (40-135)	TCDF (40-135)	HpCDD (40-135)	OCDD (40-135)
680-96831-6	DD-B-8_SS	116	93	105	103	91		108	102
680-96831-6 - RA	DD-B-8_SS						93		
LCS 320-33065/2-A	Lab Control Sample	107	96	93	96	84	91	100	87
MB 320-33065/1-A	Method Blank	90	80	87	84	76	77	85	76

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	HxCDF1 (40-135)
680-96831-6	DD-B-8_SS	94
680-96831-6 - RA	DD-B-8_SS	
LCS 320-33065/2-A	Lab Control Sample	91
MB 320-33065/1-A	Method Blank	80

Surrogate Legend

HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
TCDF = 13C-2,3,7,8-TCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF1 (40-135)	HxCDD2 (40-135)	HxCDF1 (40-135)	HpCDD (40-135)	HpCDF1 (40-135)
680-96831-11	RINSATE	84	87	86	87	90	89	88	89
LCS 320-31992/2-A	Lab Control Sample	86	88	89	89	91	87	90	91
MB 320-31992/1-A	Method Blank	85	88	87	87	93	88	86	88

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OCDD (40-135)
680-96831-11	RINSATE	85
LCS 320-31992/2-A	Lab Control Sample	93
MB 320-31992/1-A	Method Blank	87

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
OCDD = 13C-OCDD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 680-96898-1
Client Project/Site: TIMET

For:
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Attn: Mr. Marc Chartier

Kathryn Smith

Authorized for release by:
2/9/2014 11:59:06 AM

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LINKS

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

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

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

Job ID: 680-96898-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: GEI Consultants, Inc.

Project: TIMET

Report Number: 680-96898-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 12/07/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 2.1º C, 2.6º C and 3.4º C.

VOLATILE ORGANIC COMPOUNDS

Samples K53-B-1_SUB (680-96898-4), K53-B-1_SUB DUP (680-96898-5) and RD-B-1_SUB (680-96898-7) were analyzed for Volatile Organic Compounds in accordance with EPA SW-846 8260C. The samples were prepared and analyzed on 12/08/2013.

Acetone and Tetrachloroethene were detected in method blank MB 160-90351/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

2,2-Dichloropropane failed the recovery criteria low for LCS 160-90351/2-A. 2,2-Dichloropropane failed the recovery criteria low for LCSD 160-90351/3-A. Refer to the QC report for details.

Carbon disulfide and Dichlorodifluoromethane failed the recovery criteria low for the MS of sample K53-B-1_SUBMS (680-96898-4) in batch 160-90521. 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone (MIBK) and Naphthalene failed the recovery criteria high.

Carbon disulfide and Dichlorodifluoromethane failed the recovery criteria low for the MSD of sample K53-B-1_SUBMSD (680-96898-4) in batch 160-90521. 2-Hexanone, 4-Methyl-2-pentanone (MIBK) and Naphthalene failed the recovery criteria high.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS

Samples RINSATE (680-96898-13) and TRIP BLANK (680-96898-14) were analyzed for Volatile Organic Compounds in accordance with EPA SW846 Method 8260C. The samples were analyzed on 12/08/2013.

1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for RINSATE (680-96898-13). 1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for RINSATEMS (680-96898-13MS). 1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for RINSATEMSD (680-96898-13MSD). Refer to the QC report for details.

Dichlorodifluoromethane failed the recovery criteria high for LCS 160-90507/4-A. Refer to the QC report for details.

2,2-Dichloropropane failed the recovery criteria low for the MS of sample RINSATEMS (680-96898-13) in batch 160-90507.
1,2-Dichloroethane and Dichlorodifluoromethane failed the recovery criteria high.

Job ID: 680-96898-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Several analytes failed the recovery criteria high for the MSD of sample RINSATEMSD (680-96898-13) in batch 160-90507.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples K53-B-1_SS (680-96898-3), K53-B-1_SUB (680-96898-4), K53-B-1_SUB DUP (680-96898-5), RD-B-1_SS (680-96898-6) and RD-B-1_SUB (680-96898-7) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/11/2013 and analyzed on 12/16/2013.

Sample K53-B-1_SS (680-96898-3)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample RINSATE (680-96898-13) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/11/2013 and analyzed on 12/17/2013.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (SOLID)

Sample P-B-12_SHALLOW (680-96898-11) was analyzed for Semivolatile Organic Compounds (Solid) in accordance with EPA SW846 Method 8270D. The samples were prepared on 12/18/2013 and analyzed on 12/19/2013.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Samples DD-B-7_SS (680-96898-1) and P-B-12_SHALLOW (680-96898-11) were analyzed for chlorinated biphenyl congeners in accordance with epa method 1668C. The samples were prepared on 01/09/2014 and analyzed on 02/05/2014.

Several analytes were detected in method blank MB 320-33530/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The concentration of one or more analytes associated with the following samples exceeded the instrument calibration range: DD-B-7_SS (680-96898-1), P-B-12_SHALLOW (680-96898-11). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Sample RINSATE (680-96898-13) was analyzed for chlorinated biphenyl congeners in accordance with EPA method 1668C. The samples were prepared on 12/17/2013 and analyzed on 01/31/2014.

Job ID: 680-96898-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Several analytes were detected in method blank MB 320-32034/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

DIOXINS AND FURANS

Sample P-B-12_SHALLOW (680-96898-11) was analyzed for dioxins and furans in accordance with EPA Method 8290A. The samples were prepared on 01/03/2014 and analyzed on 01/10/2014, 01/15/2014 and 01/24/2014.

Several analytes were detected in method blank MB 320-33163/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Sample P-B-12_SHALLOW (680-96898-11)[30X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the dioxins and furans analysis.

All other quality control parameters were within the acceptance limits.

DIOXINS AND FURANS

Sample RINSATE (680-96898-13) was analyzed for dioxins and furans in accordance with EPA SW-846 8290A. The samples were prepared on 12/16/2013 and analyzed on 01/10/2014.

Several analytes were detected in method blank MB 320-31992/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the dioxins and furans analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Samples DD-B-7_SS (680-96898-1), DD-B-7_SUB (680-96898-2), SC-SS-1_SS (680-96898-8), SC-SS-1_DUP (680-96898-9), SC-SS-2_SS (680-96898-10), P-B-12_SHALLOW (680-96898-11) and P-B-12_DEEP (680-96898-12) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/27/2013 and analyzed on 01/09/2014, 01/15/2014 and 01/16/2014.

Several analytes failed the recovery criteria low for the MS of sample SC-SS-1_SSMS (680-96898-8) in batch 160-98572. Aluminum and Calcium failed the recovery criteria high.

Several analytes failed the recovery criteria low for the MSD of sample SC-SS-1_SSMSD (680-96898-8) in batch 160-98572. Aluminum and Calcium failed the recovery criteria high.

Samples DD-B-7_SS (680-96898-1)[10X], DD-B-7_SS (680-96898-1)[5X], DD-B-7_SUB (680-96898-2)[10X], DD-B-7_SUB (680-96898-2)[5X], SC-SS-1_SS (680-96898-8)[10X], SC-SS-1_SS (680-96898-8)[5X], SC-SS-1_DUP (680-96898-9)[10X], SC-SS-1_DUP (680-96898-9)[5X], SC-SS-2_SS (680-96898-10)[10X], SC-SS-2_SS (680-96898-10)[5X], P-B-12_SHALLOW (680-96898-11)[10X], P-B-12_SHALLOW (680-96898-11)[5X], P-B-12_DEEP (680-96898-12)[10X] and P-B-12_DEEP (680-96898-12)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

Job ID: 680-96898-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

METALS (ICP)

Sample RINSATE (680-96898-13) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 01/03/2014 and analyzed on 01/08/2014.

Zinc was detected in method blank MB 160-96025/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples DD-B-7_SS (680-96898-1), DD-B-7_SUB (680-96898-2), SC-SS-1_SS (680-96898-8), SC-SS-1_DUP (680-96898-9), SC-SS-2_SS (680-96898-10), P-B-12_SHALLOW (680-96898-11) and P-B-12_DEEP (680-96898-12) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 12/27/2013 and analyzed on 12/31/2013.

Niobium failed the recovery criteria low for the MS of sample SC-SS-1_SSMS (680-96898-8) in batch 160-95496.

Niobium failed the recovery criteria low for the MSD of sample SC-SS-1_SSMSD (680-96898-8) in batch 160-95496.

Samples DD-B-7_SS (680-96898-1)[10X], DD-B-7_SUB (680-96898-2)[10X], SC-SS-1_SS (680-96898-8)[10X], SC-SS-1_DUP (680-96898-9)[10X], SC-SS-2_SS (680-96898-10)[10X], P-B-12_SHALLOW (680-96898-11)[10X] and P-B-12_DEEP (680-96898-12)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Sample RINSATE (680-96898-13) was analyzed for Metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 01/03/2014 and analyzed on 01/09/2014.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample RINSATE (680-96898-13) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/10/2013 and analyzed on 12/11/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples DD-B-7_SS (680-96898-1), DD-B-7_SUB (680-96898-2), SC-SS-1_SS (680-96898-8), SC-SS-1_DUP (680-96898-9), SC-SS-2_SS (680-96898-10), P-B-12_SHALLOW (680-96898-11) and P-B-12_DEEP (680-96898-12) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 12/09/2013 and 12/11/2013 and analyzed on 12/11/2013 and 12/15/2013.

Mercury was detected in method blank MB 160-91133/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Job ID: 680-96898-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

ANIONS BY IC

Samples DD-B-7_SS (680-96898-1), DD-B-7_SUB (680-96898-2), SC-SS-1_SS (680-96898-8), SC-SS-1_DUP (680-96898-9), SC-SS-2_SS (680-96898-10), P-B-12_SHALLOW (680-96898-11) and P-B-12_DEEP (680-96898-12) were analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were leached on 01/13/2014 and analyzed on 01/13/2014 and 01/14/2014.

Nitrate as N and Sulfate failed the recovery criteria high for the MS of sample SC-SS-1_SSMS (680-96898-8) in batch 160-98266.

Sulfate failed the recovery criteria high for the MSD of sample SC-SS-1_SSMSD (680-96898-8) in batch 160-98266. Nitrate as N exceeded the RPD limit.

The following samples were prepped outside of the 28 day hold: DD-B-7_SS (680-96898-1), DD-B-7_SUB (680-96898-2), P-B-12_DEEP (680-96898-12), P-B-12_SHALLOW (680-96898-11), SC-SS-1_DUP (680-96898-9), SC-SS-1_SS (680-96898-8), SC-SS-1_SS (680-96898-8 MS), SC-SS-1_SS (680-96898-8 MSD), SC-SS-2_SS (680-96898-10).

Samples DD-B-7_SS (680-96898-1)[20X], DD-B-7_SUB (680-96898-2)[20X], SC-SS-1_SS (680-96898-8)[100X], SC-SS-1_SS (680-96898-8)[1000X], SC-SS-1_DUP (680-96898-9)[100X], SC-SS-1_DUP (680-96898-9)[1000X], SC-SS-2_SS (680-96898-10)[100X], SC-SS-2_SS (680-96898-10)[1000X], P-B-12_SHALLOW (680-96898-11)[100X], P-B-12_SHALLOW (680-96898-11)[20X] and P-B-12_DEEP (680-96898-12)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

ANIONS BY IC

Sample RINSATE (680-96898-13) was analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were analyzed on 12/07/2013.

Chloride failed the recovery criteria high for the MS of sample RINSATEMS (680-96898-13) in batch 160-91124.

Chloride failed the recovery criteria high for the MSD of sample RINSATEMSD (680-96898-13) in batch 160-91124.

No other difficulties were encountered during the Anions analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/MOISTURE

Samples DD-B-7_SS (680-96898-1), DD-B-7_SUB (680-96898-2), K53-B-1_SS (680-96898-3), K53-B-1_SUB (680-96898-4), K53-B-1_SUB DUP (680-96898-5), RD-B-1_SS (680-96898-6), RD-B-1_SUB (680-96898-7), SC-SS-1_SS (680-96898-8), SC-SS-1_DUP (680-96898-9), SC-SS-2_SS (680-96898-10), P-B-12_SHALLOW (680-96898-11) and P-B-12_DEEP (680-96898-12) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 12/11/2013.

No difficulties were encountered during the % solids/moisture analysis.

All quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Samples P-B-12_SHALLOW (680-96898-11) and P-B-12_DEEP (680-96898-12) were analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were leached on 12/11/2013, and prepared and analyzed on 12/23/2013.

Job ID: 680-96898-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Gross Beta was detected in method blank MB 160-94280/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the radioactivity analysis.

All other quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Sample RINSATE (680-96898-13) was analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were prepared on 12/31/2013 and analyzed on 01/02/2014.

No difficulties were encountered during the gross alpha & beta analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226 AND OTHER GAMMA EMITTERS (GS)

Samples P-B-12_SHALLOW (680-96898-11) and P-B-12_DEEP (680-96898-12) were analyzed for Radium-226 and other gamma emitters (GS) in accordance with EPA Method 901.1. The samples were leached on 12/11/2013, prepared on 12/23/2013 and analyzed on 01/14/2014.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

GAMMA EMITTERS

Sample RINSATE (680-96898-13) was analyzed for Gamma Emitters in accordance with 901.1. The samples were prepared on 12/23/2013 and analyzed on 01/11/2014.

No difficulties were encountered during the Gamma Emitters analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226 (GFPC)

Samples P-B-12_SHALLOW (680-96898-11) and P-B-12_DEEP (680-96898-12) were analyzed for Radium-226 (GFPC) in accordance with EPA Method 903.0. The samples were leached on 12/11/2013, prepared on 12/13/2013 and analyzed on 01/08/2014.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226

Sample RINSATE (680-96898-13) was analyzed for Radium-226 in accordance with EPA Method 903.0. The samples were prepared on 12/09/2013 and analyzed on 12/31/2013.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Samples P-B-12_SHALLOW (680-96898-11) and P-B-12_DEEP (680-96898-12) were analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were leached on 12/11/2013, prepared on 12/13/2013 and analyzed on 01/08/2014.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

Job ID: 680-96898-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

RADIUM-228 (GFPC)

Sample RINSATE (680-96898-13) was analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were prepared on 12/09/2013 and analyzed on 12/30/2013.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC THORIUM

Samples P-B-12_SHALLOW (680-96898-11) and P-B-12_DEEP (680-96898-12) were analyzed for Isotopic Thorium in accordance with A01R_Th. The samples were leached on 12/11/2013, prepared on 01/10/2014 and analyzed on 01/18/2014.

Thorium-228 and Thorium-230 were detected in method blank MB 160-97453/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the thorium analysis.

All other quality control parameters were within the acceptance limits.

THORIUM

Sample RINSATE (680-96898-13) was analyzed for Thorium in accordance with A01R_Th. The samples were prepared on 01/22/2014 and analyzed on 01/23/2014.

No difficulties were encountered during the Thorium analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC URANIUM

Samples P-B-12_SHALLOW (680-96898-11) and P-B-12_DEEP (680-96898-12) were analyzed for Isotopic Uranium in accordance with A01R_U. The samples were leached on 12/11/2013, prepared on 01/10/2014 and analyzed on 01/17/2014.

No difficulties were encountered during the uranium analysis.

All quality control parameters were within the acceptance limits.

URANIUM

Sample RINSATE (680-96898-13) was analyzed for Uranium in accordance with A01R_U. The samples were prepared on 01/09/2014 and analyzed on 01/16/2014.

No difficulties were encountered during the Uranium analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-96898-1	DD-B-7_SS	Solid	12/06/13 09:30	12/07/13 10:10
680-96898-2	DD-B-7_SUB	Solid	12/06/13 10:40	12/07/13 10:10
680-96898-3	K53-B-1_SS	Solid	12/05/13 09:45	12/07/13 10:10
680-96898-4	K53-B-1_SUB	Solid	12/05/13 11:00	12/07/13 10:10
680-96898-5	K53-B-1_SUB DUP	Solid	12/05/13 11:00	12/07/13 10:10
680-96898-6	RD-B-1_SS	Solid	12/05/13 08:20	12/07/13 10:10
680-96898-7	RD-B-1_SUB	Solid	12/05/13 09:00	12/07/13 10:10
680-96898-8	SC-SS-1_SS	Solid	12/06/13 12:20	12/07/13 10:10
680-96898-9	SC-SS-1_DUP	Solid	12/06/13 12:20	12/07/13 10:10
680-96898-10	SC-SS-2_SS	Solid	12/06/13 12:45	12/07/13 10:10
680-96898-11	P-B-12_SHALLOW	Solid	12/05/13 14:30	12/07/13 10:10
680-96898-12	P-B-12_DEEP	Solid	12/05/13 14:40	12/07/13 10:10
680-96898-13	RINSATE	Water	12/06/13 12:30	12/07/13 10:10
680-96898-14	TRIP BLANK	Water	12/06/13 00:00	12/07/13 10:10

Method Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SL
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
1668C	Chlorinated Biphenyl Congeners (HRGC/HRMS)	EPA	TAL SAC
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
Moisture	Percent Moisture	EPA	TAL DEN
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL

Protocol References:

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The isomer is qualified as positively identified, but at an estimated quantity because the quantitation is based on the theoretical ratio for these samples.
E	Result exceeded calibration range.
*	Isotope Dilution analyte exceeds control limits

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.
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery exceeds the 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.
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
F	MS/MSD Recovery and/or RPD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
X	Carrier exceeds control limit
U	Indicates the analyte was analyzed for but not detected.
X	Tracer exceeds control limit

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: DD-B-7_SS
Date Collected: 12/06/13 09:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-1
Matrix: Solid
Percent Solids: 84.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	120	B	47	1.8	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-2	92		47	1.6	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-3	99		47	1.5	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-4	150	q	47	32	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-5	11	U	47	11	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-6	130		47	11	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-7	10	U	47	10	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-8	440		47	11	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-9	23	J	47	12	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-10	17	U	47	17	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-11	110		47	11	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-12/13	230		93	12	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-14	9.6	U	47	9.6	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-15	2700		47	11	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-16	930		47	2.7	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-17	810	B	47	1.9	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-18/30	1200	B	93	1.6	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-19	290		47	2.8	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-20/28	4000	B	93	46	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-21/33	1800	B	93	42	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-22	2100	G	49	49	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-23	41	U	47	41	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-24	37	J	47	1.4	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-25	110	q	47	43	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-26/29	320		93	43	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-27	190		47	1.4	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-31	3000	B	47	42	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-32	500		47	1.1	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-34	43	U	47	43	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-35	67	G	50	50	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-36	44	U	47	44	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-37	3500	G	48	48	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-38	47	U	47	47	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-39	44	U	47	44	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-40/71	2300	B	93	4.6	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-41	800		47	5.9	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-42	1300		47	5.1	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-43	130		47	5.2	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-44/47/65	4400	B	140	4.4	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-45	700		47	5.1	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-46	340		47	5.5	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-48	1100		47	4.7	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-49/69	2800	B	93	3.8	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-50/53	690		93	4.3	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-51	200		47	4.3	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-52	5400	E B	47	4.8	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-54	14	J	47	0.84	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-55	31	U	47	31	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-56	3100		47	34	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: DD-B-7_SS
Date Collected: 12/06/13 09:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-1
Matrix: Solid
Percent Solids: 84.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	31	U	47	31	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-58	31	U	47	31	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-59/62/75	**490**		140	3.4	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-60	**1900**		47	32	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-61/70/74/76	**8400**	**B**	190	30	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-63	**170**	**q**	47	29	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-64	**1900**	**B**	47	3.2	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-66	**6100**	**E B**	47	34	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-67	**110**		47	29	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-68	27	U	47	27	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-72	30	U	47	30	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-73	3.6	U	47	3.6	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-77	**1000**	**G**	33	33	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-78	35	U	47	35	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-79	**100**		47	30	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-80	29	U	47	29	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-81	33	U G	33	33	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-82	**920**	**G**	100	100	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-83	**210**	**G**	110	110	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-84	**1300**	**G**	93	93	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-85/116/117	**1200**		140	68	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-86/87/97/108/119/125	**3500**		280	70	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-88/91	**710**		93	78	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-89	88	U G	88	88	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-90/101/113	**5100**	**B**	140	71	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-92	**970**	**G**	83	83	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-93/100	78	U	93	78	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-107/124	**200**		93	65	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-94	83	U G	83	83	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-95	**3800**	**B G**	77	77	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-96	**36**	**J**	47	0.33	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-98/102	**110**		93	73	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-99	**2900**	**G**	82	82	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-103	72	U G	72	72	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-104	**0.86**	**J q**	47	0.38	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-105	**3100**	**G**	70	70	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-106	70	U G	70	70	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-110/115	**6900**	**B**	93	63	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-109	**360**	**G**	60	60	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-111	57	U G	57	57	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-112	55	U G	55	55	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-114	**100**	**G**	69	69	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-118	**5100**	**E B G**	66	66	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-120	61	U G	61	61	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-121	57	U G	57	57	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-122	72	U G	72	72	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-123	**88**	**G**	65	65	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-126	**150**	**G**	75	75	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-127	70	U G	70	70	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: DD-B-7_SS
Date Collected: 12/06/13 09:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-1
Matrix: Solid
Percent Solids: 84.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-128/166	1700		93	27	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-129/138/163	12000	B	140	28	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-130	610		47	35	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-131	80		47	34	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-132	2700		47	32	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-133	100		47	32	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-134/143	350		93	32	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-135/151	2300		93	28	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-136	680		47	21	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-137	400		47	28	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-139/140	110		93	27	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-141	1800		47	30	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-142	31	U	47	31	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-144	330		47	28	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-145	20	U	47	20	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-146	1400		47	30	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-147/149	6100		93	28	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-148	28	U	47	28	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-150	19	U	47	19	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-152	19	U	47	19	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-153/168	8300		93	23	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-154	51	q	47	25	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-155	23	U	47	23	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-156/157	1400	G	13	13	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-158	1100		47	21	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-159	94		47	11	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-160	24	U	47	24	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-161	21	U	47	21	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-162	41	J	47	11	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-164	750		47	24	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-165	25	U	47	25	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-167	500	G	10	10	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-169	12	U G	12	12	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-170	4700	E	47	11	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-171/173	1200		93	10	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-172	760		47	10	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-174	3900		47	10	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-175	140		47	3.4	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-176	280		47	2.3	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-177	2300		47	10	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-178	590		47	3.5	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-179	970		47	2.5	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-180/193	9800	E	93	8.3	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-181	33	J	47	8.4	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-182	31	J	47	3.1	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-183	1900		47	7.6	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-184	43	J	47	2.5	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-185	360		47	9.2	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-186	2.4	U	47	2.4	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1

Client Sample ID: DD-B-7_SS
Date Collected: 12/06/13 09:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-1
Matrix: Solid
Percent Solids: 84.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-187	3800		47	3.3	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-188	29	J	47	2.6	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-189	180		4.7	1.9	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-190	970		47	7.7	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-191	190		47	7.4	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-192	7.7	U	47	7.7	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-194	2000		47	6.0	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-195	650		47	5.5	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-196	990		47	9.8	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-197	280		47	6.5	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-198/199	2100		93	10	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-200	180		47	6.6	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-201	350		47	6.6	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-202	340		47	7.6	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-203	1300		47	9.1	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-204	59		47	6.8	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-205	150		47	4.3	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-206	1900		47	5.8	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-207	2200		47	4.1	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-208	1700		47	4.8	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
PCB-209	320000	E B	47	26	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
Total Monochlorobiphenyls	320	J B	470	1.6	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
Total Dichlorobiphenyls	3800	q	470	13	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
Total Trichlorobiphenyls	19000	B q	470	30	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
Total Tetrachlorobiphenyls	44000	B q	470	18	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
Total Pentachlorobiphenyls	37000	B q	470	69	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
Total Hexachlorobiphenyls	42000	B q	470	24	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
Total Heptachlorobiphenyls	32000		470	6.2	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
Total Octachlorobiphenyls	8400		470	7.2	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
Total Nonachlorobiphenyls	5800		470	4.9	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1
Polychlorinated biphenyls, Total	520000	B q	470	20	pg/g	☼	01/09/14 14:14	02/05/14 06:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*43*		*5 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-15L	*69*		*5 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-123L	*96*		*10 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-114L	*92*		*10 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-202L	*88*		*10 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-3L	*43*		*5 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-118L	*93*		*10 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-126L	*103*		*10 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-206L	*87*		*10 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-169L	*104*		*10 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-37L	*83*		*5 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-19L	*59*		*5 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-188L	*77*		*10 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-54L	*51*		*5 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-156L/157L	*98*		*10 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-167L	*94*		*10 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*
PCB-209L	*70*		*10 - 145*	*01/09/14 14:14*	*02/05/14 06:10*	*1*

Client Sample ID: DD-B-7_SS
Date Collected: 12/06/13 09:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-1
Matrix: Solid
Percent Solids: 84.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-189L	88		10 - 145	01/09/14 14:14	02/05/14 06:10	1
PCB-105L	97		10 - 145	01/09/14 14:14	02/05/14 06:10	1
PCB-208L	92		10 - 145	01/09/14 14:14	02/05/14 06:10	1
PCB-1L	36		5 - 145	01/09/14 14:14	02/05/14 06:10	1
PCB-104L	66		10 - 145	01/09/14 14:14	02/05/14 06:10	1
PCB-81L	98		10 - 145	01/09/14 14:14	02/05/14 06:10	1
PCB-77L	97		10 - 145	01/09/14 14:14	02/05/14 06:10	1
PCB-205L	90		10 - 145	01/09/14 14:14	02/05/14 06:10	1
PCB-155L	72		10 - 145	01/09/14 14:14	02/05/14 06:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	71		5 - 145	01/09/14 14:14	02/05/14 06:10	1
PCB-111L	90		10 - 145	01/09/14 14:14	02/05/14 06:10	1
PCB-178L	90		10 - 145	01/09/14 14:14	02/05/14 06:10	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		110	74	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Antimony	3.4	U	5.3	3.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Barium	**350**		27	1.3	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Beryllium	0.90	U	2.7	0.90	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Cadmium	**0.80**	**J**	2.7	0.53	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Calcium	**30000**		1300	71	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Chromium	**70**		5.3	1.6	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Cobalt	**17**	**J**	27	5.0	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Copper	**200**		13	3.9	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Iron	**17000**		53	16	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Lead	**37**		5.3	0.91	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Magnesium	**11000**		530	44	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Manganese	**2800**		5.3	0.82	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Nickel	**43**		21	1.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Potassium	**3200**		2700	1800	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Selenium	1.5	U	8.0	1.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Silver	**1.8**	**J**	5.3	1.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Sodium	**1200**		1100	500	mg/Kg	☼	12/27/13 10:26	01/15/14 16:19	10
Titanium	**2400**		11	3.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Vanadium	**140**		27	6.7	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5
Zinc	**180**		27	11	mg/Kg	☼	12/27/13 10:26	01/09/14 23:10	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.1**	**J**	5.3	1.4	mg/Kg	☼	12/27/13 10:30	12/31/13 03:02	10
Niobium	**60**		13	2.0	mg/Kg	☼	12/27/13 10:30	12/31/13 03:02	10
Thallium	0.81	U	2.7	0.81	mg/Kg	☼	12/27/13 10:30	12/31/13 03:02	10
Uranium	**2.7**		0.53	0.11	mg/Kg	☼	12/27/13 10:30	12/31/13 03:02	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.39**	**B**	0.035	0.012	mg/Kg	☼	12/11/13 13:37	12/15/13 14:16	1

Client Sample ID: DD-B-7_SS

Lab Sample ID: 680-96898-1
Date Collected: 12/06/13 09:30
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 84.7

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	47	H	4.7	0.94	mg/Kg	☼		01/13/14 13:09	20
Chloride	530	H	47	4.7	mg/Kg	☼		01/13/14 13:09	20
Sulfate	530	H	120	12	mg/Kg	☼		01/13/14 13:09	20

Client Sample ID: DD-B-7_SUB

Lab Sample ID: 680-96898-2
Date Collected: 12/06/13 10:40
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 92.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9800		110	74	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Antimony	3.4	U	5.3	3.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Barium	200		27	1.3	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Beryllium	0.90	U	2.7	0.90	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Cadmium	0.53	U	2.7	0.53	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Calcium	35000		1300	71	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Chromium	12		5.3	1.6	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Cobalt	7.7	J	27	5.0	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Copper	18		13	3.9	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Iron	14000		53	16	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Lead	9.4		5.3	0.91	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Magnesium	7800		530	44	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Manganese	340		5.3	0.82	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Nickel	15	J	21	1.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Potassium	2200	J	2700	1800	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Selenium	1.5	U	8.0	1.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Silver	1.2	U	5.3	1.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Sodium	1000	J	1100	500	mg/Kg	☼	12/27/13 10:26	01/15/14 16:22	10
Titanium	830		11	3.3	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Vanadium	40		27	6.7	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5
Zinc	38		27	10	mg/Kg	☼	12/27/13 10:26	01/09/14 23:14	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6	J	5.3	1.4	mg/Kg	☼	12/27/13 10:30	12/31/13 03:09	10
Niobium	2.0	U	13	2.0	mg/Kg	☼	12/27/13 10:30	12/31/13 03:09	10
Thallium	0.81	U	2.7	0.81	mg/Kg	☼	12/27/13 10:30	12/31/13 03:09	10
Uranium	1.3		0.53	0.11	mg/Kg	☼	12/27/13 10:30	12/31/13 03:09	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.032	0.011	mg/Kg	☼	12/09/13 13:42	12/11/13 13:23	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.78	H	0.21	0.043	mg/Kg	☼		01/13/14 13:41	1
Sulfate	58	H	5.4	0.54	mg/Kg	☼		01/13/14 13:41	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54	H	43	4.3	mg/Kg	☼		01/13/14 13:57	20

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: K53-B-1_SS
Date Collected: 12/05/13 09:45
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-3
Matrix: Solid
Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Acenaphthylene	180	U	3500	180	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Acetophenone	210	U	3500	210	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Aniline	1400	U	3500	1400	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Anthracene	180	U	3500	180	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Azobenzene	240	U	3500	240	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzo[a]anthracene	210	U	3500	210	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzo[a]pyrene	210	U	3500	210	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzo[b]fluoranthene	280	U	3500	280	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzo[g,h,i]perylene	170	U	3500	170	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzoic acid	3500	U	17000	3500	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzo[k]fluoranthene	430	U	3500	430	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzyl alcohol	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Bis(2-chloroethoxy)methane	250	U	3500	250	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Bis(2-chloroethyl)ether	180	U	3500	180	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Bis(2-ethylhexyl) phthalate	490	U	3500	490	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
4-Bromophenyl phenyl ether	200	U	3500	200	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Butyl benzyl phthalate	460	U	3500	460	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Carbazole	390	U	3500	390	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
4-Chloroaniline	880	U	3500	880	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
4-Chloro-3-methylphenol	710	U	3500	710	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2-Chloronaphthalene	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2-Chlorophenol	230	U	3500	230	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
4-Chlorophenyl phenyl ether	230	U	3500	230	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Chrysene	290	U	3500	290	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Dibenz(a,h)anthracene	200	U	3500	200	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Dibenzofuran	210	U	3500	210	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
3,3'-Dichlorobenzidine	970	U	7100	970	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,4-Dichlorophenol	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Diethyl phthalate	280	U	7100	280	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,4-Dimethylphenol	710	U	3500	710	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Dimethyl phthalate	250	U	3500	250	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Di-n-butyl phthalate	310	U	3500	310	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,4-Dinitrophenol	3600	U	17000	3600	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,4-Dinitrotoluene	710	U	3500	710	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,6-Dinitrotoluene	300	U	3500	300	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Di-n-octyl phthalate	150	U	3500	150	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
1,4-Dioxane	710	U	7100	710	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
1,2-Diphenyl-hydrazine	240	U	3500	240	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Fluoranthene	390	U	3500	390	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Fluorene	190	U	3500	190	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Hexachlorobenzene	310	U	3500	310	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Hexachlorobutadiene	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Hexachlorocyclopentadiene	540	U	17000	540	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Hexachloroethane	230	U	3500	230	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Indeno[1,2,3-cd]pyrene	240	U	3500	240	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Isophorone	180	U	3500	180	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2-Methylnaphthalene	200	U	3500	200	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
3 & 4 Methylphenol	350	U	3500	350	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10

Client Sample ID: K53-B-1_SS — **Lab Sample ID: 680-96898-3**
Date Collected: 12/05/13 09:45 — **Matrix: Solid**
Date Received: 12/07/13 10:10 — **Percent Solids: 92.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	330	U	3500	330	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2-Nitroaniline	540	U	17000	540	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
3-Nitroaniline	780	U	17000	780	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
4-Nitroaniline	780	U	17000	780	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Nitrobenzene	240	U	3500	240	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2-Nitrophenol	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
4-Nitrophenol	1000	U	17000	1000	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
N-Nitrosodi-n-propylamine	330	U	3500	330	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
n-Nitrosodiphenylamine(as diphenylamine)	230	U	3500	230	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,2'-oxybis[1-chloropropane]	250	U	3500	250	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Pentachlorobenzene	700	U	3500	700	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Pentachlorophenol	3500	U	17000	3500	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Phenanthrene	180	U	3500	180	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Phenol	190	U	3500	190	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Phthalic acid	8200	U	27000	8200	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Pyrene	130	U	3500	130	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
1,2,4,5-Tetrachlorobenzene	530	U	3500	530	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,4,5-Trichlorophenol	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,4,6-Trichlorophenol	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*	*D*	*50 - 120*	*12/11/13 18:54*	*12/16/13 15:25*	*10*
2-Fluorophenol	*76*	*D*	*53 - 120*	*12/11/13 18:54*	*12/16/13 15:25*	*10*
Nitrobenzene-d5	*78*	*D*	*50 - 120*	*12/11/13 18:54*	*12/16/13 15:25*	*10*
Phenol-d5	*83*	*D*	*52 - 120*	*12/11/13 18:54*	*12/16/13 15:25*	*10*
Terphenyl-d14	*93*	*D*	*55 - 120*	*12/11/13 18:54*	*12/16/13 15:25*	*10*
2,4,6-Tribromophenol	*82*	*D*	*51 - 120*	*12/11/13 18:54*	*12/16/13 15:25*	*10*

Client Sample ID: K53-B-1_SUB — **Lab Sample ID: 680-96898-4**
Date Collected: 12/05/13 11:00 — **Matrix: Solid**
Date Received: 12/07/13 10:10 — **Percent Solids: 92.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**40**	**B**	23	7.4	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Acetonitrile	23	U	57	23	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Benzene	0.28	U	5.7	0.28	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Bromobenzene	0.42	U	5.7	0.42	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Bromodichloromethane	0.28	U	5.7	0.28	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Bromoform	0.42	U	5.7	0.42	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Bromomethane	1.3	U	11	1.3	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
2-Butanone (MEK)	**6.6**	**J**	23	2.2	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Carbon disulfide	0.78	U	5.7	0.78	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Carbon tetrachloride	0.58	U	5.7	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Chlorobenzene	0.43	U	5.7	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Chlorobromomethane	0.93	U	5.7	0.93	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Chloroethane	0.59	U	11	0.59	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Chloroform	0.43	U	5.7	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Chloromethane	0.74	U	11	0.74	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: K53-B-1_SUB
Date Collected: 12/05/13 11:00
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-4
Matrix: Solid
Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.39	U	5.7	0.39	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
4-Chlorotoluene	0.43	U	5.7	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
cis-1,2-Dichloroethene	0.68	U	5.7	0.68	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
cis-1,3-Dichloropropene	0.68	U	5.7	0.68	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Cymene	0.36	U	5.7	0.36	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Dibromochloromethane	0.47	U	5.7	0.47	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Dibromomethane	1.1	U	5.7	1.1	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2-Dichlorobenzene	0.32	U	5.7	0.32	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,3-Dichlorobenzene	0.32	U	5.7	0.32	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,4-Dichlorobenzene	0.68	U	5.7	0.68	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Dichlorodifluoromethane	1.5	U	11	1.5	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1-Dichloroethane	0.44	U	5.7	0.44	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2-Dichloroethane	0.99	U	5.7	0.99	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1-Dichloroethene	1.8	U	5.7	1.8	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2-Dichloropropane	0.43	U	5.7	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,3-Dichloropropane	0.36	U	5.7	0.36	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
2,2-Dichloropropane	0.61	U *	5.7	0.61	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1-Dichloropropene	0.34	U	5.7	0.34	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Ethanol	70	U	280	70	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Ethylbenzene	0.34	U	5.7	0.34	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
2-Hexanone	2.0	U	23	2.0	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Isopropylbenzene	0.30	U	5.7	0.30	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Methylene Chloride	1.8	U	5.7	1.8	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Methyl iodide	1.7	U	5.7	1.7	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
4-Methyl-2-pentanone (MIBK)	0.83	U	23	0.83	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Methyl tert-butyl ether	0.55	U	5.7	0.55	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
m-Xylene & p-Xylene	0.65	U	5.7	0.65	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Naphthalene	0.56	U	5.7	0.56	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
n-Butylbenzene	0.68	U	5.7	0.68	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
N-Propylbenzene	0.36	U	5.7	0.36	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
o-Xylene	0.39	U	5.7	0.39	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
sec-Butylbenzene	0.35	U	5.7	0.35	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Styrene	0.40	U	5.7	0.40	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
tert-Butylbenzene	0.35	U	5.7	0.35	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1,1,2-Tetrachloroethane	0.40	U	5.7	0.40	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1,2,2-Tetrachloroethane	0.45	U	5.7	0.45	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Tetrachloroethene	**2.7**	**J B**	5.7	0.36	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Toluene	0.80	U	5.7	0.80	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
trans-1,2-Dichloroethene	1.1	U	5.7	1.1	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
trans-1,3-Dichloropropene	0.40	U	5.7	0.40	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2,3-Trichlorobenzene	0.50	U	5.7	0.50	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2,4-Trichlorobenzene	0.49	U	5.7	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1,1-Trichloroethane	0.49	U	5.7	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1,2-Trichloroethane	0.65	U	5.7	0.65	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Trichloroethene	0.44	U	5.7	0.44	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Trichlorofluoromethane	0.57	U	5.7	0.57	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2,3-Trichloropropane	0.64	U	5.7	0.64	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2,4-Trimethylbenzene	0.68	U	5.7	0.68	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,3,5-Trimethylbenzene	0.35	U	5.7	0.35	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1

Client Sample ID: K53-B-1_SUB
Date Collected: 12/05/13 11:00
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-4
Matrix: Solid
Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	0.89	U	5.7	0.89	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Vinyl chloride	0.49	U	5.7	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Xylenes, Total	0.97	U	11	0.97	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*63 - 150*	*12/08/13 07:30*	*12/08/13 12:24*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 126*	*12/08/13 07:30*	*12/08/13 12:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*72 - 127*	*12/08/13 07:30*	*12/08/13 12:24*	*1*
Toluene-d8 (Surr)	*112*		*80 - 120*	*12/08/13 07:30*	*12/08/13 12:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Acenaphthylene	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Acetophenone	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Aniline	140	U	350	140	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Anthracene	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Azobenzene	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzo[a]anthracene	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzo[a]pyrene	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzo[b]fluoranthene	28	U	350	28	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzo[g,h,i]perylene	17	U	350	17	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzoic acid	350	U	1700	350	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzo[k]fluoranthene	42	U	350	42	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzyl alcohol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Bis(2-chloroethoxy)methane	24	U	350	24	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Bis(2-chloroethyl)ether	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Bis(2-ethylhexyl) phthalate	49	U	350	49	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
4-Bromophenyl phenyl ether	20	U	350	20	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Butyl benzyl phthalate	46	U	350	46	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Carbazole	38	U	350	38	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
4-Chloroaniline	87	U	350	87	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
4-Chloro-3-methylphenol	70	U	350	70	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2-Chloronaphthalene	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2-Chlorophenol	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
4-Chlorophenyl phenyl ether	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Chrysene	29	U	350	29	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Dibenz(a,h)anthracene	20	U	350	20	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Dibenzofuran	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
3,3'-Dichlorobenzidine	95	U	700	95	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,4-Dichlorophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Diethyl phthalate	28	U	700	28	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,4-Dimethylphenol	70	U	350	70	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Dimethyl phthalate	**340**	**J**	350	24	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Di-n-butyl phthalate	31	U	350	31	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,4-Dinitrophenol	350	U	1700	350	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,4-Dinitrotoluene	70	U	350	70	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,6-Dinitrotoluene	30	U	350	30	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Di-n-octyl phthalate	15	U	350	15	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
1,4-Dioxane	70	U	700	70	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1

Client Sample ID: K53-B-1_SUB — **Lab Sample ID: 680-96898-4**
Date Collected: 12/05/13 11:00 — **Matrix: Solid**
Date Received: 12/07/13 10:10 — **Percent Solids: 92.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenyl-hydrazine	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Fluoranthene	38	U	350	38	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Fluorene	19	U	350	19	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Hexachlorobenzene	31	U	350	31	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Hexachlorobutadiene	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Hexachlorocyclopentadiene	53	U	1700	53	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Hexachloroethane	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Indeno[1,2,3-cd]pyrene	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Isophorone	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2-Methylnaphthalene	20	U	350	20	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
3 & 4 Methylphenol	35	U	350	35	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Naphthalene	33	U	350	33	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2-Nitroaniline	53	U	1700	53	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
3-Nitroaniline	77	U	1700	77	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
4-Nitroaniline	77	U	1700	77	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Nitrobenzene	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2-Nitrophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
4-Nitrophenol	100	U	1700	100	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
N-Nitrosodi-n-propylamine	33	U	350	33	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
n-Nitrosodiphenylamine(as diphenylamine)	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,2'-oxybis[1-chloropropane]	24	U	350	24	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Pentachlorobenzene	69	U	350	69	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Pentachlorophenol	350	U	1700	350	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Phenanthrene	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Phenol	19	U	350	19	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Phthalic acid	810	U	2700	810	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Pyrene	13	U	350	13	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
1,2,4,5-Tetrachlorobenzene	52	U	350	52	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,4,5-Trichlorophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,4,6-Trichlorophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*50 - 120*	*12/11/13 18:54*	*12/16/13 15:53*	*1*
2-Fluorophenol	*78*		*53 - 120*	*12/11/13 18:54*	*12/16/13 15:53*	*1*
Nitrobenzene-d5	*80*		*50 - 120*	*12/11/13 18:54*	*12/16/13 15:53*	*1*
Phenol-d5	*79*		*52 - 120*	*12/11/13 18:54*	*12/16/13 15:53*	*1*
Terphenyl-d14	*87*		*55 - 120*	*12/11/13 18:54*	*12/16/13 15:53*	*1*
2,4,6-Tribromophenol	*86*		*51 - 120*	*12/11/13 18:54*	*12/16/13 15:53*	*1*

Client Sample ID: K53-B-1_SUB DUP — **Lab Sample ID: 680-96898-5**
Date Collected: 12/05/13 11:00 — **Matrix: Solid**
Date Received: 12/07/13 10:10 — **Percent Solids: 91.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	48	B	30	9.8	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Acetonitrile	31	U	76	31	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Benzene	0.38	U	7.6	0.38	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Bromobenzene	0.56	U	7.6	0.56	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: K53-B-1_SUB DUP
Date Collected: 12/05/13 11:00
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-5
Matrix: Solid
Percent Solids: 91.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.38	U	7.6	0.38	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Bromoform	0.56	U	7.6	0.56	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Bromomethane	1.7	U	15	1.7	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
2-Butanone (MEK)	2.9	U	30	2.9	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Carbon disulfide	1.0	U	7.6	1.0	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Carbon tetrachloride	0.77	U	7.6	0.77	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Chlorobenzene	0.58	U	7.6	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Chlorobromomethane	1.2	U	7.6	1.2	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Chloroethane	0.79	U	15	0.79	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Chloroform	0.58	U	7.6	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Chloromethane	0.99	U	15	0.99	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
2-Chlorotoluene	0.52	U	7.6	0.52	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
4-Chlorotoluene	0.58	U	7.6	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
cis-1,2-Dichloroethene	0.91	U	7.6	0.91	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
cis-1,3-Dichloropropene	0.91	U	7.6	0.91	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Cymene	0.49	U	7.6	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Dibromochloromethane	0.62	U	7.6	0.62	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Dibromomethane	1.5	U	7.6	1.5	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2-Dichlorobenzene	0.43	U	7.6	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,3-Dichlorobenzene	0.43	U	7.6	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,4-Dichlorobenzene	0.91	U	7.6	0.91	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Dichlorodifluoromethane	2.0	U	15	2.0	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1-Dichloroethane	0.59	U	7.6	0.59	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2-Dichloroethane	1.3	U	7.6	1.3	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1-Dichloroethene	2.4	U	7.6	2.4	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2-Dichloropropane	0.58	U	7.6	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,3-Dichloropropane	0.49	U	7.6	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
2,2-Dichloropropane	0.82	U *	7.6	0.82	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1-Dichloropropene	0.46	U	7.6	0.46	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Ethanol	93	U	380	93	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Ethylbenzene	0.46	U	7.6	0.46	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
2-Hexanone	2.7	U	30	2.7	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Isopropylbenzene	0.39	U	7.6	0.39	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Methylene Chloride	2.4	U	7.6	2.4	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Methyl iodide	2.3	U	7.6	2.3	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
4-Methyl-2-pentanone (MIBK)	1.1	U	30	1.1	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Methyl tert-butyl ether	0.73	U	7.6	0.73	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
m-Xylene & p-Xylene	0.87	U	7.6	0.87	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Naphthalene	0.74	U	7.6	0.74	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
n-Butylbenzene	0.91	U	7.6	0.91	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
N-Propylbenzene	0.49	U	7.6	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
o-Xylene	0.52	U	7.6	0.52	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
sec-Butylbenzene	0.47	U	7.6	0.47	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Styrene	0.53	U	7.6	0.53	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
tert-Butylbenzene	0.47	U	7.6	0.47	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1,1,2-Tetrachloroethane	0.53	U	7.6	0.53	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1,2,2-Tetrachloroethane	0.61	U	7.6	0.61	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Tetrachloroethene	**2.9**	**J B**	7.6	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Toluene	1.1	U	7.6	1.1	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1

Client Sample ID: K53-B-1_SUB DUP
Date Collected: 12/05/13 11:00
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-5
Matrix: Solid
Percent Solids: 91.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	1.4	U	7.6	1.4	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
trans-1,3-Dichloropropene	0.53	U	7.6	0.53	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2,3-Trichlorobenzene	0.67	U	7.6	0.67	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2,4-Trichlorobenzene	0.65	U	7.6	0.65	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1,1-Trichloroethane	0.65	U	7.6	0.65	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1,2-Trichloroethane	0.87	U	7.6	0.87	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Trichloroethene	0.59	U	7.6	0.59	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Trichlorofluoromethane	0.76	U	7.6	0.76	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2,3-Trichloropropane	0.85	U	7.6	0.85	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2,4-Trimethylbenzene	0.91	U	7.6	0.91	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,3,5-Trimethylbenzene	0.47	U	7.6	0.47	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Vinyl acetate	1.2	U	7.6	1.2	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Vinyl chloride	0.65	U	7.6	0.65	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Xylenes, Total	1.3	U	15	1.3	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*63 - 150*	*12/08/13 07:30*	*12/08/13 14:03*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 126*	*12/08/13 07:30*	*12/08/13 14:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*72 - 127*	*12/08/13 07:30*	*12/08/13 14:03*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*	*12/08/13 07:30*	*12/08/13 14:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Acenaphthylene	19	U	360	19	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Acetophenone	22	U	360	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Aniline	140	U	360	140	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Anthracene	19	U	360	19	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Azobenzene	24	U	360	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzo[a]anthracene	22	U	360	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzo[a]pyrene	22	U	360	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzo[b]fluoranthene	29	U	360	29	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzo[g,h,i]perylene	18	U	360	18	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzoic acid	360	U	1800	360	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzo[k]fluoranthene	44	U	360	44	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzyl alcohol	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Bis(2-chloroethoxy)methane	25	U	360	25	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Bis(2-chloroethyl)ether	18	U	360	18	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Bis(2-ethylhexyl) phthalate	50	U	360	50	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
4-Bromophenyl phenyl ether	21	U	360	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Butyl benzyl phthalate	47	U	360	47	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Carbazole	39	U	360	39	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
4-Chloroaniline	90	U	360	90	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
4-Chloro-3-methylphenol	72	U	360	72	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2-Chloronaphthalene	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2-Chlorophenol	23	U	360	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
4-Chlorophenyl phenyl ether	23	U	360	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Chrysene	30	U	360	30	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Dibenz(a,h)anthracene	21	U	360	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Dibenzofuran	22	U	360	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1

Client Sample ID: K53-B-1_SUB DUP
Date Collected: 12/05/13 11:00
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-5
Matrix: Solid
Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	99	U	720	99	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,4-Dichlorophenol	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Diethyl phthalate	29	U	720	29	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,4-Dimethylphenol	72	U	360	72	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Dimethyl phthalate	**200**	**J**	360	25	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Di-n-butyl phthalate	32	U	360	32	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,4-Dinitrophenol	370	U	1800	370	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,4-Dinitrotoluene	72	U	360	72	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,6-Dinitrotoluene	31	U	360	31	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Di-n-octyl phthalate	16	U	360	16	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
1,4-Dioxane	72	U	720	72	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
1,2-Diphenyl-hydrazine	24	U	360	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Fluoranthene	39	U	360	39	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Fluorene	20	U	360	20	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Hexachlorobenzene	32	U	360	32	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Hexachlorobutadiene	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Hexachlorocyclopentadiene	55	U	1800	55	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Hexachloroethane	23	U	360	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Indeno[1,2,3-cd]pyrene	24	U	360	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Isophorone	19	U	360	19	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2-Methylnaphthalene	21	U	360	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
3 & 4 Methylphenol	36	U	360	36	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Naphthalene	34	U	360	34	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2-Nitroaniline	55	U	1800	55	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
3-Nitroaniline	80	U	1800	80	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
4-Nitroaniline	79	U	1800	79	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Nitrobenzene	24	U	360	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2-Nitrophenol	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
4-Nitrophenol	110	U	1800	110	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
N-Nitrosodi-n-propylamine	34	U	360	34	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
n-Nitrosodiphenylamine(as diphenylamine)	23	U	360	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,2'-oxybis[1-chloropropane]	25	U	360	25	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Pentachlorobenzene	71	U	360	71	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Pentachlorophenol	360	U	1800	360	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Phenanthrene	19	U	360	19	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Phenol	20	U	360	20	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Phthalic acid	830	U	2700	830	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Pyrene	13	U	360	13	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
1,2,4,5-Tetrachlorobenzene	54	U	360	54	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,4,5-Trichlorophenol	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,4,6-Trichlorophenol	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*50 - 120*	*12/11/13 18:54*	*12/16/13 17:17*	*1*
2-Fluorophenol	*80*		*53 - 120*	*12/11/13 18:54*	*12/16/13 17:17*	*1*
Nitrobenzene-d5	*81*		*50 - 120*	*12/11/13 18:54*	*12/16/13 17:17*	*1*
Phenol-d5	*82*		*52 - 120*	*12/11/13 18:54*	*12/16/13 17:17*	*1*
Terphenyl-d14	*91*		*55 - 120*	*12/11/13 18:54*	*12/16/13 17:17*	*1*
2,4,6-Tribromophenol	*85*		*51 - 120*	*12/11/13 18:54*	*12/16/13 17:17*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: RD-B-1_SS
Date Collected: 12/05/13 08:20
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-6
Matrix: Solid
Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Acenaphthylene	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Acetophenone	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Aniline	140	U	350	140	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Anthracene	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Azobenzene	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzo[a]anthracene	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzo[a]pyrene	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzo[b]fluoranthene	28	U	350	28	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzo[g,h,i]perylene	17	U	350	17	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzoic acid	350	U	1700	350	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzo[k]fluoranthene	42	U	350	42	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzyl alcohol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Bis(2-chloroethoxy)methane	24	U	350	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Bis(2-chloroethyl)ether	17	U	350	17	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Bis(2-ethylhexyl) phthalate	48	U	350	48	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
4-Bromophenyl phenyl ether	20	U	350	20	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Butyl benzyl phthalate	45	U	350	45	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Carbazole	38	U	350	38	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
4-Chloroaniline	86	U	350	86	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
4-Chloro-3-methylphenol	70	U	350	70	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2-Chloronaphthalene	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2-Chlorophenol	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
4-Chlorophenyl phenyl ether	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Chrysene	28	U	350	28	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Dibenz(a,h)anthracene	20	U	350	20	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Dibenzofuran	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
3,3'-Dichlorobenzidine	95	U	700	95	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,4-Dichlorophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Diethyl phthalate	27	U	700	27	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,4-Dimethylphenol	70	U	350	70	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Dimethyl phthalate	**41**	**J**	350	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Di-n-butyl phthalate	31	U	350	31	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,4-Dinitrophenol	350	U	1700	350	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,4-Dinitrotoluene	70	U	350	70	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,6-Dinitrotoluene	30	U	350	30	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Di-n-octyl phthalate	15	U	350	15	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
1,4-Dioxane	70	U	700	70	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
1,2-Diphenyl-hydrazine	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Fluoranthene	38	U	350	38	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Fluorene	19	U	350	19	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Hexachlorobenzene	31	U	350	31	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Hexachlorobutadiene	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Hexachlorocyclopentadiene	53	U	1700	53	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Hexachloroethane	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Indeno[1,2,3-cd]pyrene	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Isophorone	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2-Methylnaphthalene	20	U	350	20	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
3 & 4 Methylphenol	35	U	350	35	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1

Client Sample ID: RD-B-1_SS

Lab Sample ID: 680-96898-6

Date Collected: 12/05/13 08:20

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	33	U	350	33	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2-Nitroaniline	53	U	1700	53	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
3-Nitroaniline	77	U	1700	77	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
4-Nitroaniline	76	U	1700	76	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Nitrobenzene	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2-Nitrophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
4-Nitrophenol	100	U	1700	100	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
N-Nitrosodi-n-propylamine	33	U	350	33	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
n-Nitrosodiphenylamine(as diphenylamine)	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,2'-oxybis[1-chloropropane]	24	U	350	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Pentachlorobenzene	69	U	350	69	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Pentachlorophenol	350	U	1700	350	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Phenanthrene	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Phenol	19	U	350	19	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Phthalic acid	800	U	2600	800	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Pyrene	**15**	**J**	350	13	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
1,2,4,5-Tetrachlorobenzene	52	U	350	52	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,4,5-Trichlorophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,4,6-Trichlorophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*50 - 120*	*12/11/13 18:54*	*12/16/13 17:45*	*1*
2-Fluorophenol	*83*		*53 - 120*	*12/11/13 18:54*	*12/16/13 17:45*	*1*
Nitrobenzene-d5	*84*		*50 - 120*	*12/11/13 18:54*	*12/16/13 17:45*	*1*
Phenol-d5	*83*		*52 - 120*	*12/11/13 18:54*	*12/16/13 17:45*	*1*
Terphenyl-d14	*91*		*55 - 120*	*12/11/13 18:54*	*12/16/13 17:45*	*1*
2,4,6-Tribromophenol	*83*		*51 - 120*	*12/11/13 18:54*	*12/16/13 17:45*	*1*

Client Sample ID: RD-B-1_SUB

Lab Sample ID: 680-96898-7

Date Collected: 12/05/13 09:00

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**19**	**B**	19	6.3	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Acetonitrile	20	U	48	20	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Benzene	0.24	U	4.8	0.24	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Bromobenzene	0.36	U	4.8	0.36	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Bromodichloromethane	0.24	U	4.8	0.24	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Bromoform	0.36	U	4.8	0.36	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Bromomethane	1.1	U	9.7	1.1	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
2-Butanone (MEK)	1.9	U	19	1.9	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Carbon disulfide	0.67	U	4.8	0.67	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Carbon tetrachloride	0.49	U	4.8	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Chlorobenzene	0.37	U	4.8	0.37	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Chlorobromomethane	0.79	U	4.8	0.79	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Chloroethane	0.50	U	9.7	0.50	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Chloroform	0.37	U	4.8	0.37	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Chloromethane	0.63	U	9.7	0.63	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: RD-B-1_SUB
Date Collected: 12/05/13 09:00
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-7
Matrix: Solid
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.33	U	4.8	0.33	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
4-Chlorotoluene	0.37	U	4.8	0.37	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
cis-1,2-Dichloroethene	0.58	U	4.8	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
cis-1,3-Dichloropropene	0.58	U	4.8	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Cymene	0.31	U	4.8	0.31	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Dibromochloromethane	0.40	U	4.8	0.40	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Dibromomethane	0.94	U	4.8	0.94	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2-Dichlorobenzene	0.27	U	4.8	0.27	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,3-Dichlorobenzene	0.27	U	4.8	0.27	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,4-Dichlorobenzene	0.58	U	4.8	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Dichlorodifluoromethane	1.3	U	9.7	1.3	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1-Dichloroethane	0.38	U	4.8	0.38	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2-Dichloroethane	0.84	U	4.8	0.84	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1-Dichloroethene	1.6	U	4.8	1.6	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2-Dichloropropane	0.37	U	4.8	0.37	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,3-Dichloropropane	0.31	U	4.8	0.31	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
2,2-Dichloropropane	0.52	U *	4.8	0.52	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1-Dichloropropene	0.29	U	4.8	0.29	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Ethanol	59	U	240	59	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Ethylbenzene	0.29	U	4.8	0.29	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
2-Hexanone	1.7	U	19	1.7	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Isopropylbenzene	0.25	U	4.8	0.25	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Methylene Chloride	1.5	U	4.8	1.5	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Methyl iodide	1.5	U	4.8	1.5	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
4-Methyl-2-pentanone (MIBK)	0.71	U	19	0.71	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Methyl tert-butyl ether	0.46	U	4.8	0.46	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
m-Xylene & p-Xylene	0.55	U	4.8	0.55	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Naphthalene	0.47	U	4.8	0.47	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
n-Butylbenzene	0.58	U	4.8	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
N-Propylbenzene	0.31	U	4.8	0.31	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
o-Xylene	0.33	U	4.8	0.33	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
sec-Butylbenzene	0.30	U	4.8	0.30	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Styrene	0.34	U	4.8	0.34	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
tert-Butylbenzene	0.30	U	4.8	0.30	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1,1,2-Tetrachloroethane	0.34	U	4.8	0.34	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1,2,2-Tetrachloroethane	0.39	U	4.8	0.39	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Tetrachloroethene	**1.8**	**J B**	4.8	0.31	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Toluene	0.68	U	4.8	0.68	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
trans-1,2-Dichloroethene	0.91	U	4.8	0.91	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
trans-1,3-Dichloropropene	0.34	U	4.8	0.34	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2,3-Trichlorobenzene	0.43	U	4.8	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2,4-Trichlorobenzene	0.42	U	4.8	0.42	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1,1-Trichloroethane	0.42	U	4.8	0.42	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1,2-Trichloroethane	0.55	U	4.8	0.55	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Trichloroethene	0.38	U	4.8	0.38	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Trichlorofluoromethane	0.48	U	4.8	0.48	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2,3-Trichloropropane	0.54	U	4.8	0.54	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2,4-Trimethylbenzene	0.58	U	4.8	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,3,5-Trimethylbenzene	0.30	U	4.8	0.30	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1

Client Sample ID: RD-B-1_SUB
Date Collected: 12/05/13 09:00
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-7
Matrix: Solid
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	0.75	U	4.8	0.75	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Vinyl chloride	0.42	U	4.8	0.42	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Xylenes, Total	0.82	U	9.7	0.82	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*63 - 150*	*12/08/13 07:30*	*12/08/13 14:28*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 126*	*12/08/13 07:30*	*12/08/13 14:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*72 - 127*	*12/08/13 07:30*	*12/08/13 14:28*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*	*12/08/13 07:30*	*12/08/13 14:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	11	U	340	11	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Acenaphthylene	17	U	340	17	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Acetophenone	21	U	340	21	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Aniline	130	U	340	130	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Anthracene	17	U	340	17	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Azobenzene	23	U	340	23	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzo[a]anthracene	21	U	340	21	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzo[a]pyrene	21	U	340	21	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzo[b]fluoranthene	27	U	340	27	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzo[g,h,i]perylene	16	U	340	16	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzoic acid	340	U	1600	340	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzo[k]fluoranthene	41	U	340	41	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzyl alcohol	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Bis(2-chloroethoxy)methane	24	U	340	24	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Bis(2-chloroethyl)ether	17	U	340	17	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Bis(2-ethylhexyl) phthalate	47	U	340	47	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
4-Bromophenyl phenyl ether	20	U	340	20	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Butyl benzyl phthalate	44	U	340	44	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Carbazole	37	U	340	37	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
4-Chloroaniline	84	U	340	84	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
4-Chloro-3-methylphenol	68	U	340	68	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2-Chloronaphthalene	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2-Chlorophenol	22	U	340	22	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
4-Chlorophenyl phenyl ether	22	U	340	22	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Chrysene	28	U	340	28	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Dibenz(a,h)anthracene	20	U	340	20	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Dibenzofuran	21	U	340	21	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
3,3'-Dichlorobenzidine	93	U	680	93	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,4-Dichlorophenol	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Diethyl phthalate	27	U	680	27	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,4-Dimethylphenol	68	U	340	68	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Dimethyl phthalate	**160**	**J**	340	24	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Di-n-butyl phthalate	30	U	340	30	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,4-Dinitrophenol	340	U	1600	340	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,4-Dinitrotoluene	68	U	340	68	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,6-Dinitrotoluene	29	U	340	29	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Di-n-octyl phthalate	15	U	340	15	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
1,4-Dioxane	68	U	680	68	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1

Client Sample ID: RD-B-1_SUB — **Lab Sample ID: 680-96898-7**
Date Collected: 12/05/13 09:00 — **Matrix: Solid**
Date Received: 12/07/13 10:10 — **Percent Solids: 94.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenyl-hydrazine	23	U	340	23	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Fluoranthene	37	U	340	37	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Fluorene	19	U	340	19	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Hexachlorobenzene	30	U	340	30	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Hexachlorobutadiene	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Hexachlorocyclopentadiene	51	U	1600	51	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Hexachloroethane	22	U	340	22	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Indeno[1,2,3-cd]pyrene	23	U	340	23	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Isophorone	17	U	340	17	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2-Methylnaphthalene	20	U	340	20	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
3 & 4 Methylphenol	34	U	340	34	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Naphthalene	32	U	340	32	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2-Nitroaniline	51	U	1600	51	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
3-Nitroaniline	75	U	1600	75	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
4-Nitroaniline	75	U	1600	75	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Nitrobenzene	23	U	340	23	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2-Nitrophenol	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
4-Nitrophenol	100	U	1600	100	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
N-Nitrosodi-n-propylamine	32	U	340	32	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
n-Nitrosodiphenylamine(as diphenylamine)	22	U	340	22	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,2'-oxybis[1-chloropropane]	24	U	340	24	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Pentachlorobenzene	67	U	340	67	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Pentachlorophenol	340	U	1600	340	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Phenanthrene	17	U	340	17	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Phenol	19	U	340	19	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Phthalic acid	780	U	2600	780	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Pyrene	12	U	340	12	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
1,2,4,5-Tetrachlorobenzene	50	U	340	50	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,4,5-Trichlorophenol	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,4,6-Trichlorophenol	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*50 - 120*	*12/11/13 18:54*	*12/16/13 18:13*	*1*
2-Fluorophenol	*81*		*53 - 120*	*12/11/13 18:54*	*12/16/13 18:13*	*1*
Nitrobenzene-d5	*83*		*50 - 120*	*12/11/13 18:54*	*12/16/13 18:13*	*1*
Phenol-d5	*82*		*52 - 120*	*12/11/13 18:54*	*12/16/13 18:13*	*1*
Terphenyl-d14	*87*		*55 - 120*	*12/11/13 18:54*	*12/16/13 18:13*	*1*
2,4,6-Tribromophenol	*81*		*51 - 120*	*12/11/13 18:54*	*12/16/13 18:13*	*1*

Client Sample ID: SC-SS-1_SS — **Lab Sample ID: 680-96898-8**
Date Collected: 12/06/13 12:20 — **Matrix: Solid**
Date Received: 12/07/13 10:10 — **Percent Solids: 93.7**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		95	67	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Antimony	3.0	U	4.8	3.0	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Barium	**230**		24	1.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Beryllium	0.80	U	2.4	0.80	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5

Client Sample ID: SC-SS-1_SS

Lab Sample ID: 680-96898-8

Date Collected: 12/06/13 12:20

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.48	U	2.4	0.48	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Calcium	**33000**		1200	63	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Chromium	**33**		4.8	1.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Cobalt	**12**	**J**	24	4.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Copper	**27**		12	3.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Iron	**18000**		48	14	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Lead	**27**		4.8	0.82	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Magnesium	**11000**		480	40	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Manganese	**1400**		4.8	0.73	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Nickel	**19**		19	1.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Potassium	**2100**	**J**	2400	1600	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Selenium	1.4	U	7.1	1.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Silver	1.1	U	4.8	1.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Sodium	**29000**		950	450	mg/Kg	☼	12/27/13 10:26	01/15/14 16:26	10
Titanium	**1200**		9.5	3.0	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Vanadium	**83**		24	6.0	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Zinc	**98**		24	9.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.7**	**J**	4.8	1.2	mg/Kg	☼	12/27/13 10:30	12/31/13 03:15	10
Niobium	**7.8**	**J**	12	1.8	mg/Kg	☼	12/27/13 10:30	12/31/13 03:15	10
Thallium	0.72	U	2.4	0.72	mg/Kg	☼	12/27/13 10:30	12/31/13 03:15	10
Uranium	**1.7**		0.48	0.095	mg/Kg	☼	12/27/13 10:30	12/31/13 03:15	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.015**	**J**	0.034	0.011	mg/Kg	☼	12/09/13 13:42	12/11/13 13:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**1.5**	**H**	0.21	0.043	mg/Kg	☼		01/13/14 15:01	1

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**6500**	**H**	530	53	mg/Kg	☼		01/13/14 15:33	100

General Chemistry - Soluble - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13000**	**H**	2100	210	mg/Kg	☼		01/13/14 21:39	1000

Client Sample ID: SC-SS-1_DUP

Lab Sample ID: 680-96898-9

Date Collected: 12/06/13 12:20

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 92.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		100	71	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Antimony	3.3	U	5.1	3.3	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Barium	**200**		25	1.3	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Beryllium	0.86	U	2.5	0.86	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5

Client Sample ID: SC-SS-1_DUP
Lab Sample ID: 680-96898-9
Date Collected: 12/06/13 12:20
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.51	U	2.5	0.51	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Calcium	**25000**		1300	68	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Chromium	**24**		5.1	1.6	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Cobalt	**11**	**J**	25	4.8	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Copper	**26**		13	3.7	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Iron	**16000**		51	15	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Lead	**18**		5.1	0.87	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Magnesium	**11000**		510	42	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Manganese	**1200**		5.1	0.78	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Nickel	**18**	**J**	20	1.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Potassium	**1900**	**J**	2500	1700	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Selenium	1.5	U	7.6	1.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Silver	1.2	U	5.1	1.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Sodium	**27000**		1000	480	mg/Kg	☼	12/27/13 10:26	01/15/14 16:41	10
Titanium	**1100**		10	3.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Vanadium	**71**		25	6.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Zinc	**100**		25	10	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.7**	**J**	5.1	1.3	mg/Kg	☼	12/27/13 10:30	12/31/13 03:56	10
Niobium	**8.2**	**J**	13	1.9	mg/Kg	☼	12/27/13 10:30	12/31/13 03:56	10
Thallium	0.77	U	2.5	0.77	mg/Kg	☼	12/27/13 10:30	12/31/13 03:56	10
Uranium	**1.9**		0.51	0.10	mg/Kg	☼	12/27/13 10:30	12/31/13 03:56	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**	**J**	0.032	0.011	mg/Kg	☼	12/09/13 13:42	12/11/13 13:34	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**1.4**	**H**	0.21	0.043	mg/Kg	☼		01/13/14 17:56	1

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**12000**	**H**	540	54	mg/Kg	☼		01/13/14 18:28	100

General Chemistry - Soluble - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17000**	**H**	2100	210	mg/Kg	☼		01/14/14 15:44	1000

Client Sample ID: SC-SS-2_SS
Lab Sample ID: 680-96898-10
Date Collected: 12/06/13 12:45
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 86.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8600**		110	79	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Antimony	3.6	U	5.6	3.6	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Barium	**270**		28	1.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Beryllium	1.9	U	5.6	1.9	mg/Kg	☼	12/27/13 10:26	01/15/14 16:45	10

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: SC-SS-2_SS

Lab Sample ID: 680-96898-10

Date Collected: 12/06/13 12:45
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.56	J	2.8	0.56	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Calcium	30000		1400	75	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Chromium	42		5.6	1.7	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Cobalt	23	J	56	11	mg/Kg	☼	12/27/13 10:26	01/15/14 16:45	10
Copper	74		14	4.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Iron	13000		56	17	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Lead	38		5.6	0.97	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Magnesium	11000		560	47	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Manganese	3100		5.6	0.86	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Nickel	40		22	1.3	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Potassium	1900	U	2800	1900	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Selenium	1.6	U	8.4	1.6	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Silver	1.3	U	5.6	1.3	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Sodium	23000		1100	530	mg/Kg	☼	12/27/13 10:26	01/15/14 16:45	10
Titanium	6900		22	7.1	mg/Kg	☼	12/27/13 10:26	01/15/14 16:45	10
Vanadium	110		28	7.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Zinc	430		28	11	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1	J	5.6	1.5	mg/Kg	☼	12/27/13 10:30	12/31/13 04:03	10
Niobium	37		14	2.1	mg/Kg	☼	12/27/13 10:30	12/31/13 04:03	10
Thallium	0.85	U	2.8	0.85	mg/Kg	☼	12/27/13 10:30	12/31/13 04:03	10
Uranium	1.5		0.56	0.11	mg/Kg	☼	12/27/13 10:30	12/31/13 04:03	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026	J	0.036	0.012	mg/Kg	☼	12/09/13 13:42	12/11/13 13:36	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.5	H	0.23	0.046	mg/Kg	☼		01/13/14 18:44	1

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7500	H	570	57	mg/Kg	☼		01/13/14 19:15	100

General Chemistry - Soluble - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11000	H	2300	230	mg/Kg	☼		01/14/14 16:00	1000

Client Sample ID: P-B-12_SHALLOW

Lab Sample ID: 680-96898-11

Date Collected: 12/05/13 14:30
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Acenaphthylene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Anthracene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Benzo[a]anthracene	87	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: P-B-12_SHALLOW
Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-11
Matrix: Solid
Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	110	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Benzo[k]fluoranthene	38	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Benzo[g,h,i]perylene	58	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Benzo[a]pyrene	60	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Chrysene	110	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Dibenz(a,h)anthracene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Fluoranthene	160	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Fluorene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Indeno[1,2,3-cd]pyrene	55	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Naphthalene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Phenanthrene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Pyrene	130	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*79*		*53 - 97*	*12/18/13 11:29*	*12/19/13 00:21*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*46 - 111*	*12/18/13 11:29*	*12/19/13 00:21*	*1*
Nitrobenzene-d5 (Surr)	*70*		*55 - 98*	*12/18/13 11:29*	*12/19/13 00:21*	*1*
Phenol-d5 (Surr)	*75*		*54 - 101*	*12/18/13 11:29*	*12/19/13 00:21*	*1*
Terphenyl-d14 (Surr)	*78*		*58 - 123*	*12/18/13 11:29*	*12/19/13 00:21*	*1*
2-Fluorobiphenyl (Surr)	*73*		*56 - 97*	*12/18/13 11:29*	*12/19/13 00:21*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	96	B	42	2.3	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-2	89		42	2.0	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-3	210		42	1.8	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-4	180	q	42	32	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-5	29	J	42	19	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-6	150		42	19	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-7	19	J	42	18	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-8	370		42	19	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-9	29	J	42	20	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-10	18	U	42	18	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-11	200		42	20	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-12/13	430		84	20	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-14	31	J	42	17	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-15	1200		42	19	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-16	200		42	3.7	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-17	170	B	42	2.6	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-18/30	370	B	84	2.2	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-19	56		42	3.6	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-20/28	1400	B	84	45	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-21/33	490	B	84	42	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-22	460	G	48	48	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-23	41	U	42	41	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-24	38	J	42	1.9	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-25	160	G	43	43	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-26/29	270		84	43	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-27	49		42	1.9	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-31	1300	B	42	42	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: P-B-12_SHALLOW
Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-11
Matrix: Solid
Percent Solids: 94.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-32	140		42	1.5	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-34	48	G	43	43	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-35	280	G	50	50	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-36	160	G	44	44	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-37	970	G	50	50	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-38	47	U G	47	47	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-39	200	G	44	44	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-40/71	2200	B	84	34	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-41	160	G	45	45	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-42	1000		42	38	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-43	160		42	39	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-44/47/65	11000	B	130	33	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-45	290		42	39	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-46	120		42	41	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-48	600		42	35	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-49/69	5500	B	84	29	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-50/53	570		84	32	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-51	94		42	32	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-52	29000	E B	42	36	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-54	11	J	42	0.92	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-55	150	U G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-56	3500	G	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-57	150	U G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-58	150	U G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-59/62/75	480		130	25	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-60	1600	G	160	160	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-61/70/74/76	28000	E B	170	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-63	350	G	140	140	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-64	3400	B	42	24	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-66	9600	E B G	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-67	180	G	140	140	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-68	130	U G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-72	150	U G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-73	53		42	27	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-77	850	G	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-78	170	U G	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-79	1100	G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-80	140	U G	140	140	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-81	160	U G	160	160	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-82	6400	E G	740	740	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-83	1700	G	810	810	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-84	12000	E G	670	670	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-85/116/117	9300	G	500	500	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-86/87/97/108/119/125	35000	E G	510	510	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-88/91	5400	G	570	570	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-89	640	U G	640	640	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-90/101/113	52000	E B G	510	510	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-92	8300	E G	600	600	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-93/100	570	U G	570	570	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: P-B-12_SHALLOW
Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-11
Matrix: Solid
Percent Solids: 94.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-107/124	**1900**	**G**	470	470	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-94	600	U G	600	600	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-95	**35000**	**E B G**	560	560	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-96	**150**		42	0.95	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-98/102	**560**	**G**	530	530	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-99	**27000**	**E G**	600	600	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-103	530	U G	530	530	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-104	**29**	**J**	42	1.1	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-105	**26000**	**E G**	520	520	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-106	510	U G	510	510	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-110/115	**64000**	**E B G**	460	460	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-109	**3300**	**G**	440	440	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-111	420	U G	420	420	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-112	400	U G	400	400	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-114	**1100**	**G**	490	490	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-118	**57000**	**E B G**	480	480	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-120	440	U G	440	440	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-121	410	U G	410	410	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-122	520	U G	520	520	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-123	**770**	**G**	480	480	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-126	600	U G	600	600	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-127	510	U G	510	510	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-128/166	**9800**	**E G**	160	160	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-129/138/163	**59000**	**E B G**	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-130	**3600**	**G**	220	220	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-131	**740**	**G**	210	210	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-132	**17000**	**E G**	190	190	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-133	**610**	**G**	190	190	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-134/143	**2300**	**G**	200	200	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-135/151	**12000**	**E G**	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-136	**4800**	**E G**	130	130	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-137	**3000**	**G**	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-139/140	**1000**	**G**	160	160	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-141	**9600**	**E G**	180	180	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-142	190	U G	190	190	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-144	**2000**	**G**	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-145	120	U G	120	120	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-146	**6700**	**E G**	180	180	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-147/149	**33000**	**E G**	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-148	170	U G	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-150	110	U G	110	110	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-152	120	U G	120	120	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-153/168	**40000**	**E G**	140	140	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-154	**420**	**G**	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-155	130	U G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-156/157	**9300**	**E G**	88	88	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-158	**6100**	**E G**	130	130	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-159	**450**	**G**	72	72	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-160	150	U G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: P-B-12_SHALLOW
Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-11
Matrix: Solid
Percent Solids: 94.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-161	130	U G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-162	**540**	**G**	70	70	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-164	**3900**	**G**	140	140	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-165	150	U G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-167	**2900**	**G**	67	67	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-169	**120**	**q G**	83	83	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-170	**14000**	**E G**	59	59	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-171/173	**5000**		84	54	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-172	**2700**	**G**	56	56	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-174	**13000**	**E G**	55	55	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-175	**1000**		42	9.6	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-176	**1400**		42	6.4	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-177	**3400**	**q G**	56	56	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-178	**2000**		42	10	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-179	**3800**		42	7.0	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-180/193	**30000**	**E**	84	45	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-181	**330**	**G**	46	46	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-182	**370**		42	8.9	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-183	**6900**	**E**	42	41	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-184	**640**		42	7.2	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-185	**1500**	**G**	50	50	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-186	**97**		42	6.8	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-187	**12000**	**E**	42	9.3	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-188	**350**		42	7.0	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-189	**1000**	**G**	12	12	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-190	**3000**		42	42	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-191	**840**		42	40	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-192	**190**		42	42	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-194	**6300**	**E**	42	42	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-195	**2100**		42	39	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-196	**4800**	**E G**	58	58	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-197	**1800**		42	38	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-198/199	**11000**	**E**	84	60	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-200	**1100**		42	39	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-201	**2300**		42	39	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-202	**2200**		42	42	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-203	**5200**	**E G**	53	53	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-204	**1100**		42	40	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-205	**1300**		42	33	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-206	**22000**	**E G**	43	43	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-207	**11000**	**E**	42	29	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-208	**14000**	**E**	42	32	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-209	**510000**	**E B**	42	24	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Monochlorobiphenyls	**400**	**J B**	420	2.0	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Dichlorobiphenyls	**2600**	**q**	420	20	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Trichlorobiphenyls	**6800**	**B**	420	30	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Tetrachlorobiphenyls	**100000**	**B**	420	92	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Pentachlorobiphenyls	**350000**	**B G**	500	500	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Hexachlorobiphenyls	**230000**	**B q**	420	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1

Client Sample ID: P-B-12_SHALLOW
Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-11
Matrix: Solid
Percent Solids: 94.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Heptachlorobiphenyls	100000	q	420	30	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Octachlorobiphenyls	39000		420	44	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Nonachlorobiphenyls	47000		420	35	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Polychlorinated biphenyls, Total	1400000	B q	420	93	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*37*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-15L	*54*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-123L	*63*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-114L	*62*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-202L	*65*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-3L	*41*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-118L	*64*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-126L	*68*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-206L	*55*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-169L	*63*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-37L	*63*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-19L	*50*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-188L	*59*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-54L	*40*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-156L/157L	*62*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-167L	*62*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-209L	*46*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-189L	*62*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-105L	*64*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-208L	*64*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-1L	*35*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-104L	*47*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-81L	*70*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-77L	*70*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-205L	*57*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-155L	*50*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*78*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-111L	*91*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-178L	*84*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	31		2.1	0.26	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,7,8-PeCDD	91		10	1.4	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,7,8-PeCDF	1200		10	5.1	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
2,3,4,7,8-PeCDF	670		10	5.3	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,4,7,8-HxCDD	62		10	0.27	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,6,7,8-HxCDD	140		10	0.24	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,7,8,9-HxCDD	130		10	0.22	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,4,7,8-HxCDF	2800	B	10	4.0	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,6,7,8-HxCDF	1700	B	10	3.4	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,7,8,9-HxCDF	240		10	4.0	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
2,3,4,6,7,8-HxCDF	550		10	3.7	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1

Client Sample ID: P-B-12_SHALLOW
Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-11
Matrix: Solid
Percent Solids: 94.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	510	B	10	0.90	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,4,7,8,9-HpCDF	2900		10	4.7	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
OCDD	810	B	21	0.26	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*68*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-2,3,7,8-TCDD	*60*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-1,2,3,7,8-PeCDD	*60*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*64*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-1,2,3,7,8-PeCDF	*62*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*63*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-OCDD	*66*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-1,2,3,4,7,8-HxCDF	*63*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDF	7200	B	310	62	pg/g	☼	01/03/14 14:52	01/24/14 06:19	30
OCDF	89000	B	630	380	pg/g	☼	01/03/14 14:52	01/24/14 06:19	30

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDF	*54*		*40 - 135*	*01/03/14 14:52*	*01/24/14 06:19*	*30*
13C-OCDD	*47*		*40 - 135*	*01/03/14 14:52*	*01/24/14 06:19*	*30*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	720	G	12	12	pg/g	☼	01/03/14 14:52	01/15/14 17:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*63*		*40 - 135*	*01/03/14 14:52*	*01/15/14 17:51*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		93	65	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Antimony	3.0	U	4.7	3.0	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Barium	310		23	1.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Beryllium	0.79	U	2.3	0.79	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Cadmium	0.47	U	2.3	0.47	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Calcium	20000		1200	62	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Chromium	230		4.7	1.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Cobalt	8.8	J	23	4.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Copper	55		12	3.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Iron	14000		47	14	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Lead	110		4.7	0.80	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Magnesium	10000		470	39	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Manganese	2300		4.7	0.72	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Nickel	29		19	1.0	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Potassium	3100		2300	1600	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Selenium	1.3	U	7.0	1.3	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Silver	1.2	J	4.7	1.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Sodium	1100		930	440	mg/Kg	☼	12/27/13 10:26	01/16/14 14:33	10
Titanium	1500		9.3	2.9	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Vanadium	520		23	5.9	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: P-B-12_SHALLOW
Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-11
Matrix: Solid
Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	120		23	9.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		4.7	1.2	mg/Kg	☼	12/27/13 10:30	12/31/13 04:09	10
Niobium	37		12	1.8	mg/Kg	☼	12/27/13 10:30	12/31/13 04:09	10
Thallium	0.71	U	2.3	0.71	mg/Kg	☼	12/27/13 10:30	12/31/13 04:09	10
Uranium	6.3		0.47	0.093	mg/Kg	☼	12/27/13 10:30	12/31/13 04:09	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.032	0.011	mg/Kg	☼	12/09/13 13:42	12/11/13 13:38	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	16	H	4.2	0.85	mg/Kg	☼		01/13/14 19:47	20
Sulfate	590	H	110	11	mg/Kg	☼		01/13/14 19:47	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300	H	210	21	mg/Kg	☼		01/13/14 20:03	100

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	54.9		10.0	4.39	pCi/g		12/23/13 11:18	12/23/13 19:01	1
Gross Beta	44.0		10.0	3.55	pCi/g		12/23/13 11:18	12/23/13 19:01	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.08			0.366	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Bismuth-212	3.44			1.35	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Bismuth-214	1.88			0.258	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Bismuth-210M	-0.00941	U		0.146	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Cesium-134	0.0252	U		0.148	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Cesium-137	-0.0123	U		0.149	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Cobalt-57	0.0179	U		0.0839	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Cobalt-60	0.0269	U		0.102	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Lead-212	2.19			0.183	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Lead-214	1.96			0.256	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Potassium-40	26.3			0.886	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Protactinium-231	1.21	U		3.10	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Protactinium-234	-0.209	U		0.454	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Radium-224	1.15	U		2.57	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Thallium-208	0.780			0.103	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Thorium-227	0.242	U		2.34	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Thorium-234	1.56	U		2.26	pCi/g		12/23/13 16:53	01/14/14 21:59	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	2.31		1.00	0.205	pCi/g		12/13/13 15:38	01/08/14 16:22	1

Client Sample ID: P-B-12_SHALLOW

Lab Sample ID: 680-96898-11

Date Collected: 12/05/13 14:30

Matrix: Solid

Date Received: 12/07/13 10:10

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	112	X	40 - 110	12/13/13 15:38	01/08/14 16:22	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.90		1.00	0.360	pCi/g		12/13/13 14:41	01/08/14 12:16	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	112	X	40 - 110	12/13/13 14:41	01/08/14 12:16	1
Y Carrier	87.9		40 - 110	12/13/13 14:41	01/08/14 12:16	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	2.33		1.00	0.124	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-230	3.16		1.00	0.113	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-232	2.09		1.00	0.0696	pCi/g		01/10/14 14:41	01/18/14 16:41	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	67.8		30 - 110	01/10/14 14:41	01/18/14 16:41	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	2.52		1.00	0.0723	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-235/236	0.0643	U	1.00	0.0722	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-238	2.92		1.00	0.0634	pCi/g		01/10/14 14:41	01/17/14 20:37	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	86.7		30 - 110	01/10/14 14:41	01/17/14 20:37	1

Client Sample ID: P-B-12_DEEP

Lab Sample ID: 680-96898-12

Date Collected: 12/05/13 14:40

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 92.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		97	68	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Antimony	3.1	U	4.9	3.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Barium	200		24	1.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Beryllium	0.82	U	2.4	0.82	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Cadmium	0.49	U	2.4	0.49	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Calcium	41000		1200	65	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Chromium	19		4.9	1.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Cobalt	8.0	J	24	4.6	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Copper	16		12	3.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Iron	14000		49	14	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Lead	9.1		4.9	0.84	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Magnesium	9800		490	41	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Manganese	500		4.9	0.75	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Nickel	28		19	1.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Potassium	2300	J	2400	1600	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Selenium	1.4	U	7.3	1.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Silver	1.1	U	4.9	1.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Sodium	820	J	970	460	mg/Kg	☼	12/27/13 10:26	01/16/14 14:37	10

Client Sample ID: P-B-12_DEEP
Date Collected: 12/05/13 14:40
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-12
Matrix: Solid
Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Titanium	740		9.7	3.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Vanadium	89		24	6.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Zinc	36		24	9.7	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.3		4.9	1.3	mg/Kg	☼	12/27/13 10:30	12/31/13 04:16	10
Niobium	2.8	J	12	1.9	mg/Kg	☼	12/27/13 10:30	12/31/13 04:16	10
Thallium	0.74	U	2.4	0.74	mg/Kg	☼	12/27/13 10:30	12/31/13 04:16	10
Uranium	1.6		0.49	0.097	mg/Kg	☼	12/27/13 10:30	12/31/13 04:16	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.034	0.011	mg/Kg	☼	12/09/13 13:42	12/11/13 13:40	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	74	H	5.4	0.54	mg/Kg	☼		01/13/14 20:51	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	13	H	4.3	0.86	mg/Kg	☼		01/13/14 21:07	20
Chloride	970	H	43	4.3	mg/Kg	☼		01/13/14 21:07	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	22.4		10.0	3.87	pCi/g		12/23/13 11:24	12/23/13 19:01	1
Gross Beta	26.7		10.0	3.07	pCi/g		12/23/13 11:24	12/23/13 19:01	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.04			0.224	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Bismuth-212	2.06			0.796	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Bismuth-214	1.40			0.146	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Bismuth-210M	0.00754	U		0.118	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Cesium-134	0.0445	U		0.0738	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Cesium-137	-0.0316	U		0.118	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Cobalt-57	-0.00940	U		0.0594	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Cobalt-60	0.00931	U		0.0968	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Lead-212	1.59			0.128	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Lead-214	1.31			0.131	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Potassium-40	24.1			0.609	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Protactinium-231	0.678	U		2.43	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Protactinium-234	-0.0405	U		0.291	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Radium-224	1.79	U		1.98	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Thallium-208	0.592			0.0841	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Thorium-227	0.0211	U		1.57	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Thorium-234	1.06	U		2.09	pCi/g		12/23/13 16:53	01/14/14 22:00	1

Client Sample ID: P-B-12_DEEP

Lab Sample ID: 680-96898-12

Date Collected: 12/05/13 14:40

Matrix: Solid

Date Received: 12/07/13 10:10

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	1.53		1.00	0.222	pCi/g		12/13/13 15:38	01/08/14 16:23	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	112	X	40 - 110	12/13/13 15:38	01/08/14 16:23	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.29		1.00	0.392	pCi/g		12/13/13 14:41	01/08/14 12:17	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	112	X	40 - 110	12/13/13 14:41	01/08/14 12:17	1
Y Carrier	84.1		40 - 110	12/13/13 14:41	01/08/14 12:17	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.97		1.00	0.0960	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-230	1.66		1.00	0.0924	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-232	1.47		1.00	0.0736	pCi/g		01/10/14 14:41	01/18/14 16:41	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	71.0		30 - 110	01/10/14 14:41	01/18/14 16:41	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	1.10		1.00	0.0877	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-235/236	0.0240	U	1.00	0.0767	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-238	1.30		1.00	0.0539	pCi/g		01/10/14 14:41	01/17/14 20:37	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	80.2		30 - 110	01/10/14 14:41	01/17/14 20:37	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13

Date Collected: 12/06/13 12:30

Matrix: Water

Date Received: 12/07/13 10:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.7	U	20	6.7	ug/L			12/08/13 23:42	1
Acetonitrile	7.3	U	50	7.3	ug/L			12/08/13 23:42	1
Benzene	0.25	U	5.0	0.25	ug/L			12/08/13 23:42	1
Bromobenzene	0.33	U	5.0	0.33	ug/L			12/08/13 23:42	1
Chlorobromomethane	0.55	U	5.0	0.55	ug/L			12/08/13 23:42	1
Bromodichloromethane	0.25	U	5.0	0.25	ug/L			12/08/13 23:42	1
Bromoform	0.37	U	5.0	0.37	ug/L			12/08/13 23:42	1
Bromomethane	0.40	U	10	0.40	ug/L			12/08/13 23:42	1
2-Butanone (MEK)	0.39	U	20	0.39	ug/L			12/08/13 23:42	1
n-Butylbenzene	0.23	U	5.0	0.23	ug/L			12/08/13 23:42	1
sec-Butylbenzene	0.31	U	5.0	0.31	ug/L			12/08/13 23:42	1
tert-Butylbenzene	0.31	U	5.0	0.31	ug/L			12/08/13 23:42	1
Carbon disulfide	0.37	U	5.0	0.37	ug/L			12/08/13 23:42	1
Carbon tetrachloride	0.36	U	5.0	0.36	ug/L			12/08/13 23:42	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: RINSATE
Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.38	U	5.0	0.38	ug/L			12/08/13 23:42	1
Dibromochloromethane	0.33	U	5.0	0.33	ug/L			12/08/13 23:42	1
Chloroethane	0.38	U	10	0.38	ug/L			12/08/13 23:42	1
Chloroform	0.15	U	5.0	0.15	ug/L			12/08/13 23:42	1
Chloromethane	0.55	U	10	0.55	ug/L			12/08/13 23:42	1
2-Chlorotoluene	0.34	U	5.0	0.34	ug/L			12/08/13 23:42	1
4-Chlorotoluene	0.31	U	5.0	0.31	ug/L			12/08/13 23:42	1
Dibromomethane	0.41	U	5.0	0.41	ug/L			12/08/13 23:42	1
1,2-Dichlorobenzene	0.28	U	5.0	0.28	ug/L			12/08/13 23:42	1
1,3-Dichlorobenzene	0.23	U	5.0	0.23	ug/L			12/08/13 23:42	1
1,4-Dichlorobenzene	0.35	U	5.0	0.35	ug/L			12/08/13 23:42	1
Dichlorodifluoromethane	0.45	U *	10	0.45	ug/L			12/08/13 23:42	1
1,1-Dichloroethane	0.39	U	5.0	0.39	ug/L			12/08/13 23:42	1
1,2-Dichloroethane	0.37	U	5.0	0.37	ug/L			12/08/13 23:42	1
cis-1,2-Dichloroethene	0.16	U	5.0	0.16	ug/L			12/08/13 23:42	1
trans-1,2-Dichloroethene	0.18	U	5.0	0.18	ug/L			12/08/13 23:42	1
1,1-Dichloroethene	0.37	U	5.0	0.37	ug/L			12/08/13 23:42	1
1,2-Dichloropropane	0.32	U	5.0	0.32	ug/L			12/08/13 23:42	1
1,3-Dichloropropane	0.24	U	5.0	0.24	ug/L			12/08/13 23:42	1
2,2-Dichloropropane	0.54	U	5.0	0.54	ug/L			12/08/13 23:42	1
cis-1,3-Dichloropropene	0.34	U	5.0	0.34	ug/L			12/08/13 23:42	1
trans-1,3-Dichloropropene	0.35	U	5.0	0.35	ug/L			12/08/13 23:42	1
1,1-Dichloropropene	0.30	U	5.0	0.30	ug/L			12/08/13 23:42	1
Ethylbenzene	0.30	U	5.0	0.30	ug/L			12/08/13 23:42	1
2-Hexanone	0.59	U	20	0.59	ug/L			12/08/13 23:42	1
Methyl iodide	1.5	U	5.0	1.5	ug/L			12/08/13 23:42	1
Isopropylbenzene	0.26	U	5.0	0.26	ug/L			12/08/13 23:42	1
Cymene	0.32	U	5.0	0.32	ug/L			12/08/13 23:42	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			12/08/13 23:42	1
4-Methyl-2-pentanone (MIBK)	0.33	U	20	0.33	ug/L			12/08/13 23:42	1
Methyl tert-butyl ether	0.40	U	5.0	0.40	ug/L			12/08/13 23:42	1
Naphthalene	0.85	U	5.0	0.85	ug/L			12/08/13 23:42	1
N-Propylbenzene	0.30	U	5.0	0.30	ug/L			12/08/13 23:42	1
Styrene	0.35	U	5.0	0.35	ug/L			12/08/13 23:42	1
1,1,1,2-Tetrachloroethane	0.25	U	5.0	0.25	ug/L			12/08/13 23:42	1
1,1,2,2-Tetrachloroethane	0.43	U	5.0	0.43	ug/L			12/08/13 23:42	1
Tetrachloroethene	0.28	U	5.0	0.28	ug/L			12/08/13 23:42	1
Toluene	**1.0**	**J**	5.0	1.0	ug/L			12/08/13 23:42	1
1,2,3-Trichlorobenzene	0.65	U	5.0	0.65	ug/L			12/08/13 23:42	1
1,2,4-Trichlorobenzene	0.55	U	5.0	0.55	ug/L			12/08/13 23:42	1
1,1,1-Trichloroethane	0.29	U	5.0	0.29	ug/L			12/08/13 23:42	1
1,1,2-Trichloroethane	0.57	U	5.0	0.57	ug/L			12/08/13 23:42	1
Trichloroethene	0.29	U	5.0	0.29	ug/L			12/08/13 23:42	1
Trichlorofluoromethane	0.22	U	5.0	0.22	ug/L			12/08/13 23:42	1
1,2,3-Trichloropropane	0.56	U	5.0	0.56	ug/L			12/08/13 23:42	1
1,2,4-Trimethylbenzene	0.40	U	5.0	0.40	ug/L			12/08/13 23:42	1
1,3,5-Trimethylbenzene	0.28	U	5.0	0.28	ug/L			12/08/13 23:42	1
Vinyl acetate	0.61	U	5.0	0.61	ug/L			12/08/13 23:42	1
Vinyl chloride	0.43	U	5.0	0.43	ug/L			12/08/13 23:42	1

Client Sample ID: RINSATE
Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.57	U	5.0	0.57	ug/L			12/08/13 23:42	1
o-Xylene	0.32	U	5.0	0.32	ug/L			12/08/13 23:42	1
Xylenes, Total	0.85	U	10	0.85	ug/L			12/08/13 23:42	1
Ethanol	130	U	250	130	ug/L			12/08/13 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*75 - 123*		*12/08/13 23:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*134*	*X*	*78 - 127*		*12/08/13 23:42*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*12/08/13 23:42*	*1*
Dibromofluoromethane (Surr)	*119*		*80 - 120*		*12/08/13 23:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7	U	20	1.7	ug/L		12/11/13 18:50	12/17/13 21:37	1
Phenol	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
Aniline	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
2-Chlorophenol	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzyl alcohol	0.23	U	10	0.23	ug/L		12/11/13 18:50	12/17/13 21:37	1
3 & 4 Methylphenol	0.25	U	10	0.25	ug/L		12/11/13 18:50	12/17/13 21:37	1
Acetophenone	0.24	U	10	0.24	ug/L		12/11/13 18:50	12/17/13 21:37	1
N-Nitrosodi-n-propylamine	0.36	U	10	0.36	ug/L		12/11/13 18:50	12/17/13 21:37	1
Hexachloroethane	2.1	U	10	2.1	ug/L		12/11/13 18:50	12/17/13 21:37	1
Nitrobenzene	0.82	U	10	0.82	ug/L		12/11/13 18:50	12/17/13 21:37	1
Isophorone	0.21	U	10	0.21	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,4-Dimethylphenol	0.59	U	10	0.59	ug/L		12/11/13 18:50	12/17/13 21:37	1
2-Nitrophenol	0.40	U	10	0.40	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzoic acid	10	U	25	10	ug/L		12/11/13 18:50	12/17/13 21:37	1
Bis(2-chloroethoxy)methane	0.99	U	10	0.99	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,4-Dichlorophenol	0.65	U	10	0.65	ug/L		12/11/13 18:50	12/17/13 21:37	1
Naphthalene	0.30	U	4.1	0.30	ug/L		12/11/13 18:50	12/17/13 21:37	1
4-Chloroaniline	2.2	U	10	2.2	ug/L		12/11/13 18:50	12/17/13 21:37	1
Hexachlorobutadiene	3.4	U	10	3.4	ug/L		12/11/13 18:50	12/17/13 21:37	1
4-Chloro-3-methylphenol	2.5	U	10	2.5	ug/L		12/11/13 18:50	12/17/13 21:37	1
2-Methylnaphthalene	0.30	U	4.1	0.30	ug/L		12/11/13 18:50	12/17/13 21:37	1
1,2,4,5-Tetrachlorobenzene	1.8	U	10	1.8	ug/L		12/11/13 18:50	12/17/13 21:37	1
Hexachlorocyclopentadiene	10	U	51	10	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,4,6-Trichlorophenol	0.30	U	10	0.30	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,4,5-Trichlorophenol	0.46	U	10	0.46	ug/L		12/11/13 18:50	12/17/13 21:37	1
2-Chloronaphthalene	0.26	U	4.1	0.26	ug/L		12/11/13 18:50	12/17/13 21:37	1
2-Nitroaniline	1.8	U	10	1.8	ug/L		12/11/13 18:50	12/17/13 21:37	1
Dimethyl phthalate	0.21	U	4.1	0.21	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,6-Dinitrotoluene	1.9	U	10	1.9	ug/L		12/11/13 18:50	12/17/13 21:37	1
Acenaphthylene	0.50	U	4.1	0.50	ug/L		12/11/13 18:50	12/17/13 21:37	1
3-Nitroaniline	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
Acenaphthene	0.29	U	4.1	0.29	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,4-Dinitrophenol	10	U	31	10	ug/L		12/11/13 18:50	12/17/13 21:37	1
4-Nitrophenol	1.3	U	10	1.3	ug/L		12/11/13 18:50	12/17/13 21:37	1
Dibenzofuran	0.30	U	4.1	0.30	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,4-Dinitrotoluene	1.7	U	10	1.7	ug/L		12/11/13 18:50	12/17/13 21:37	1
Pentachlorobenzene	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1

Client Sample ID: RINSATE
Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.39	U	4.1	0.39	ug/L		12/11/13 18:50	12/17/13 21:37	1
4-Chlorophenyl phenyl ether	1.7	U	10	1.7	ug/L		12/11/13 18:50	12/17/13 21:37	1
Fluorene	0.32	U	4.1	0.32	ug/L		12/11/13 18:50	12/17/13 21:37	1
4-Nitroaniline	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
n-Nitrosodiphenylamine(as diphenylamine)	0.45	U	10	0.45	ug/L		12/11/13 18:50	12/17/13 21:37	1
1,2-Diphenyl-hydrazine	0.23	U	10	0.23	ug/L		12/11/13 18:50	12/17/13 21:37	1
Azobenzene	0.23	U	4.1	0.23	ug/L		12/11/13 18:50	12/17/13 21:37	1
4-Bromophenyl phenyl ether	0.44	U	10	0.44	ug/L		12/11/13 18:50	12/17/13 21:37	1
Hexachlorobenzene	0.67	U	10	0.67	ug/L		12/11/13 18:50	12/17/13 21:37	1
Pentachlorophenol	20	U	51	20	ug/L		12/11/13 18:50	12/17/13 21:37	1
Phenanthrene	0.26	U	4.1	0.26	ug/L		12/11/13 18:50	12/17/13 21:37	1
Anthracene	0.43	U	4.1	0.43	ug/L		12/11/13 18:50	12/17/13 21:37	1
Carbazole	0.44	U	4.1	0.44	ug/L		12/11/13 18:50	12/17/13 21:37	1
Di-n-butyl phthalate	1.2	U	4.1	1.2	ug/L		12/11/13 18:50	12/17/13 21:37	1
Fluoranthene	0.20	U	4.1	0.20	ug/L		12/11/13 18:50	12/17/13 21:37	1
Pyrene	0.38	U	10	0.38	ug/L		12/11/13 18:50	12/17/13 21:37	1
Butyl benzyl phthalate	1.0	U	4.1	1.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
Bis(2-ethylhexyl) phthalate	0.57	U	10	0.57	ug/L		12/11/13 18:50	12/17/13 21:37	1
3,3'-Dichlorobenzidine	2.0	U	51	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzo[a]anthracene	0.36	U	4.1	0.36	ug/L		12/11/13 18:50	12/17/13 21:37	1
Chrysene	0.55	U	4.1	0.55	ug/L		12/11/13 18:50	12/17/13 21:37	1
Di-n-octyl phthalate	0.36	U	4.1	0.36	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzo[b]fluoranthene	0.54	U	4.1	0.54	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzo[k]fluoranthene	0.47	U	4.1	0.47	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzo[a]pyrene	0.32	U	4.1	0.32	ug/L		12/11/13 18:50	12/17/13 21:37	1
Dibenz(a,h)anthracene	0.52	U	4.1	0.52	ug/L		12/11/13 18:50	12/17/13 21:37	1
Indeno[1,2,3-cd]pyrene	0.66	U	4.1	0.66	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzo[g,h,i]perylene	0.51	U	4.1	0.51	ug/L		12/11/13 18:50	12/17/13 21:37	1
Bis(2-chloroethyl)ether	0.42	U	10	0.42	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,2'-oxybis[1-chloropropane]	0.29	U	10	0.29	ug/L		12/11/13 18:50	12/17/13 21:37	1
Phthalic acid	5.9	U	410	5.9	ug/L		12/11/13 18:50	12/17/13 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*80*		*41 - 117*	*12/11/13 18:50*	*12/17/13 21:37*	*1*
Phenol-d5	*83*		*46 - 120*	*12/11/13 18:50*	*12/17/13 21:37*	*1*
Nitrobenzene-d5	*84*		*52 - 113*	*12/11/13 18:50*	*12/17/13 21:37*	*1*
2-Fluorobiphenyl	*87*		*48 - 104*	*12/11/13 18:50*	*12/17/13 21:37*	*1*
2,4,6-Tribromophenol	*92*		*48 - 126*	*12/11/13 18:50*	*12/17/13 21:37*	*1*
Terphenyl-d14	*101*		*41 - 138*	*12/11/13 18:50*	*12/17/13 21:37*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**15**	**J**	190	0.81	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-2	0.84	U	190	0.84	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-3	0.90	U	190	0.90	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-4	3.7	U	190	3.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-5	4.3	U	190	4.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-6	4.3	U	190	4.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-7	4.0	U	190	4.0	pg/L		12/17/13 10:53	01/31/14 04:52	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: RINSATE
Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-13
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-8	4.2	U	190	4.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-9	4.5	U	190	4.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-10	2.3	U	190	2.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-11	**15**	**J q**	190	4.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-12/13	4.5	U	380	4.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-14	3.7	U	190	3.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-15	4.6	U	190	4.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-16	**4.2**	**J**	190	3.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-17	2.3	U	190	2.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-18/30	**6.0**	**J q**	380	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-19	2.7	U	190	2.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-20/28	**8.2**	**J B**	380	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-21/33	**6.1**	**J**	380	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-22	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-23	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-24	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-25	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-26/29	1.6	U	380	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-27	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-31	**8.4**	**J B**	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-32	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-34	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-35	1.9	U	190	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-36	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-37	2.1	U	190	2.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-38	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-39	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-40/71	**4.9**	**J q**	380	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-41	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-42	**3.4**	**J**	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-43	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-44/47/65	**8.7**	**J q B**	570	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-45	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-46	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-48	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-49/69	**6.4**	**J B**	380	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-50/53	1.3	U	380	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-51	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-52	**21**	**J B**	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-54	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-55	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-56	**3.0**	**J q**	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-57	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-58	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-59/62/75	1.0	U	570	1.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-60	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-61/70/74/76	**13**	**J q**	760	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-63	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-64	**5.5**	**J**	190	0.94	pg/L		12/17/13 10:53	01/31/14 04:52	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: RINSATE
Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-13
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-66	**8.1**	**J B**	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-67	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-68	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-72	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-73	1.1	U	190	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-77	2.0	U	19	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-78	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-79	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-80	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-81	1.9	U	19	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-82	2.4	U	190	2.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-83	2.7	U	190	2.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-84	2.2	U	190	2.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-85/116/117	1.6	U	570	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-86/87/97/108/119/125	**6.7**	**J**	1100	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-88/91	1.9	U	380	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-89	2.1	U	190	2.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-90/101/113	**10**	**J B**	570	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-92	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-93/100	1.9	U	380	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-107/124	1.5	U	380	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-94	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-95	**8.4**	**J q B**	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-96	0.94	U	190	0.94	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-98/102	1.7	U	380	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-99	**2.7**	**J q**	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-103	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-104	0.93	U	190	0.93	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-105	**3.0**	**J**	19	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-106	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-110/115	**9.1**	**J B**	380	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-109	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-111	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-112	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-114	1.7	U	19	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-115	**9.1**	**J B**	380	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-118	**6.1**	**J B**	19	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-120	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-121	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-122	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-123	1.6	U	19	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-126	2.2	U	19	2.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-127	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-128/166	1.7	U	380	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-129/138/163	**5.5**	**J B**	570	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-130	2.3	U	190	2.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-131	2.1	U	190	2.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-132	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-133	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: RINSATE
Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-13
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-134/143	2.0	U	380	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-135/151	1.8	U	380	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-136	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-137	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-139/140	1.7	U	380	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-141	1.9	U	190	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-142	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-144	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-145	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-146	1.9	U	190	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-147/149	**3.1**	**J q B**	380	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-148	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-150	1.2	U	190	1.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-152	1.2	U	190	1.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-153/168	**3.7**	**J B**	380	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-154	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-155	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-156/157	1.9	U	38	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-158	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-159	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-160	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-161	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-162	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-164	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-165	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-167	1.4	U	19	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-169	2.0	U	19	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-170	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-171/173	1.3	U	380	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-172	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-174	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-175	2.1	U	190	2.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-176	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-177	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-178	2.2	U	190	2.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-179	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-180/193	1.1	U	380	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-181	1.1	U	190	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-182	1.9	U	190	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-183	**1.7**	**J q**	190	0.97	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-184	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-185	1.2	U	190	1.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-186	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-187	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-188	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-189	2.3	U	19	2.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-190	0.98	U	190	0.98	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-191	0.94	U	190	0.94	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-192	0.98	U	190	0.98	pg/L		12/17/13 10:53	01/31/14 04:52	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: RINSATE
Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-13
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-194	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-195	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-196	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-197	1.1	U	190	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-198/199	1.7	U	380	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-200	1.1	U	190	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-201	1.1	U	190	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-202	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-203	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-204	1.2	U	190	1.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-205	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-206	2.4	U	190	2.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-207	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-208	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-209	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*49*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-3L	*57*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-4L	*57*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-15L	*71*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-19L	*59*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-37L	*68*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-54L	*49*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-77L	*75*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-81L	*73*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-104L	*57*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-105L	*72*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-114L	*72*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-118L	*74*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-123L	*73*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-126L	*72*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-155L	*62*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-156L/157L	*79*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-167L	*79*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-169L	*76*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-188L	*66*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-189L	*74*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-202L	*77*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-205L	*84*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-206L	*74*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-208L	*87*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-209L	*79*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*77*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-111L	*81*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-178L	*86*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: RINSATE
Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-13
Matrix: Water

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.15	U	9.8	0.15	pg/L		12/16/13 16:32	01/10/14 03:53	1
2,3,7,8-TCDF	0.091	U	9.8	0.091	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,7,8-PeCDD	0.20	U	49	0.20	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,7,8-PeCDF	0.14	U	49	0.14	pg/L		12/16/13 16:32	01/10/14 03:53	1
2,3,4,7,8-PeCDF	0.14	U	49	0.14	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,4,7,8-HxCDD	0.12	U	49	0.12	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,6,7,8-HxCDD	0.11	U	49	0.11	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,7,8,9-HxCDD	0.099	U	49	0.099	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,4,7,8-HxCDF	**0.42**	**J q B**	49	0.095	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,6,7,8-HxCDF	0.19	U	49	0.19	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,7,8,9-HxCDF	0.097	U	49	0.097	pg/L		12/16/13 16:32	01/10/14 03:53	1
2,3,4,6,7,8-HxCDF	0.090	U	49	0.090	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,4,6,7,8-HpCDD	**0.87**	**J B**	49	0.17	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,4,6,7,8-HpCDF	**1.3**	**J B**	49	0.14	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,4,7,8,9-HpCDF	0.16	U	49	0.16	pg/L		12/16/13 16:32	01/10/14 03:53	1
OCDD	**9.0**	**J B**	98	0.16	pg/L		12/16/13 16:32	01/10/14 03:53	1
OCDF	**2.1**	**J q B**	98	0.15	pg/L		12/16/13 16:32	01/10/14 03:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*84*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-2,3,7,8-TCDF	*86*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-1,2,3,7,8-PeCDD	*85*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-1,2,3,7,8-PeCDF	*86*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-1,2,3,6,7,8-HxCDD	*95*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-1,2,3,4,7,8-HxCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*90*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*91*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-OCDD	*92*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	6.0	U	10	6.0	ug/L		01/03/14 17:29	01/08/14 13:51	1
Aluminum	80	U	200	80	ug/L		01/03/14 17:29	01/08/14 13:51	1
Barium	**11**	**J**	50	4.0	ug/L		01/03/14 17:29	01/08/14 13:51	1
Beryllium	0.61	U	5.0	0.61	ug/L		01/03/14 17:29	01/08/14 13:51	1
Calcium	**24000**		1000	110	ug/L		01/03/14 17:29	01/08/14 13:51	1
Cadmium	0.91	U	5.0	0.91	ug/L		01/03/14 17:29	01/08/14 13:51	1
Cobalt	4.9	U	50	4.9	ug/L		01/03/14 17:29	01/08/14 13:51	1
Chromium	3.1	U	10	3.1	ug/L		01/03/14 17:29	01/08/14 13:51	1
Copper	4.6	U	25	4.6	ug/L		01/03/14 17:29	01/08/14 13:51	1
Iron	28	U	100	28	ug/L		01/03/14 17:29	01/08/14 13:51	1
Potassium	**2800**	**J**	5000	1700	ug/L		01/03/14 17:29	01/08/14 13:51	1
Magnesium	**7500**		1000	130	ug/L		01/03/14 17:29	01/08/14 13:51	1
Manganese	**3.8**	**J**	15	3.3	ug/L		01/03/14 17:29	01/08/14 13:51	1
Sodium	**15000**		1000	320	ug/L		01/03/14 17:29	01/08/14 13:51	1
Nickel	13	U	40	13	ug/L		01/03/14 17:29	01/08/14 13:51	1
Lead	**1.8**	**J**	10	1.5	ug/L		01/03/14 17:29	01/08/14 13:51	1
Antimony	4.0	U	10	4.0	ug/L		01/03/14 17:29	01/08/14 13:51	1
Selenium	2.7	U	15	2.7	ug/L		01/03/14 17:29	01/08/14 13:51	1
Titanium	2.4	U	20	2.4	ug/L		01/03/14 17:29	01/08/14 13:51	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: RINSATE
Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	4.1	U	50	4.1	ug/L		01/03/14 17:29	01/08/14 13:51	1
Zinc	**53**	**B**	20	5.2	ug/L		01/03/14 17:29	01/08/14 13:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		01/03/14 17:29	01/09/14 00:53	1
Niobium	2.2	U	25	2.2	ug/L		01/03/14 17:29	01/09/14 00:53	1
Thallium	0.55	U	2.0	0.55	ug/L		01/03/14 17:29	01/09/14 00:53	1
Uranium	0.23	U	1.0	0.23	ug/L		01/03/14 17:29	01/09/14 00:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		12/10/13 09:56	12/11/13 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.19**		0.020	0.0040	mg/L			12/07/13 19:51	1
Chloride	**4.5**		0.20	0.020	mg/L			12/07/13 19:51	1
Sulfate	**5.2**		0.50	0.050	mg/L			12/07/13 19:51	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	0.0950	U	3.00	1.85	pCi/L		12/31/13 12:16	01/02/14 18:30	1
Gross Beta	**1.44**		4.00	0.940	pCi/L		12/31/13 12:16	01/02/14 18:30	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	-23.5	U		45.8	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Bismuth-212	-1.60	U		181	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Bismuth-214	-0.366	U		34.7	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Bismuth-210M	1.86	U		15.1	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Cesium-134	1.72	U		12.5	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Cesium-137	-4.28	U		17.2	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Cobalt-57	0.528	U		8.20	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Cobalt-60	0.804	U		14.5	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Lead-212	6.85	U		25.5	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Lead-214	15.4	U		26.4	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Potassium-40	6.62	U		238	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Protactinium-231	25.8	U		275	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Protactinium-234	1.16	U		41.4	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Radium-224	-56.0	U		266	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Thallium-208	1.22	U		16.1	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Thorium-227	8.86	U		90.4	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Thorium-231	45.8	U		59.0	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Thorium-234	96.5	U		256	pCi/L		12/23/13 17:56	01/11/14 04:33	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**0.221**		1.00	0.190	pCi/L		12/09/13 11:35	12/31/13 07:56	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13

Date Collected: 12/06/13 12:30

Matrix: Water

Date Received: 12/07/13 10:10

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110	12/09/13 11:35	12/31/13 07:56	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.0425	U	1.00	0.434	pCi/L		12/09/13 11:40	12/30/13 11:01	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110	12/09/13 11:40	12/30/13 11:01	1
Y Carrier	87.9		40 - 110	12/09/13 11:40	12/30/13 11:01	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	-0.0434	U	1.00	0.197	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-230	0.131	U	1.00	0.166	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-232	-0.0144	U	1.00	0.146	pCi/L		01/22/14 08:57	01/23/14 22:10	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	73.1		30 - 110	01/22/14 08:57	01/23/14 22:10	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
U-238	0.0162	U	1.00	0.0910	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-235/236	0.0249	U	1.00	0.0748	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-233/234	-0.00376	U	1.00	0.0912	pCi/L		01/09/14 09:41	01/16/14 23:39	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	89.0		30 - 110	01/09/14 09:41	01/16/14 23:39	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-96898-14

Date Collected: 12/06/13 00:00

Matrix: Water

Date Received: 12/07/13 10:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.7	U	20	6.7	ug/L			12/08/13 23:17	1
Acetonitrile	7.3	U	50	7.3	ug/L			12/08/13 23:17	1
Benzene	0.25	U	5.0	0.25	ug/L			12/08/13 23:17	1
Bromobenzene	0.33	U	5.0	0.33	ug/L			12/08/13 23:17	1
Chlorobromomethane	0.55	U	5.0	0.55	ug/L			12/08/13 23:17	1
Bromodichloromethane	0.25	U	5.0	0.25	ug/L			12/08/13 23:17	1
Bromoform	0.37	U	5.0	0.37	ug/L			12/08/13 23:17	1
Bromomethane	0.40	U	10	0.40	ug/L			12/08/13 23:17	1
2-Butanone (MEK)	0.39	U	20	0.39	ug/L			12/08/13 23:17	1
n-Butylbenzene	0.23	U	5.0	0.23	ug/L			12/08/13 23:17	1
sec-Butylbenzene	0.31	U	5.0	0.31	ug/L			12/08/13 23:17	1
tert-Butylbenzene	0.31	U	5.0	0.31	ug/L			12/08/13 23:17	1
Carbon disulfide	0.37	U	5.0	0.37	ug/L			12/08/13 23:17	1
Carbon tetrachloride	0.36	U	5.0	0.36	ug/L			12/08/13 23:17	1
Chlorobenzene	0.38	U	5.0	0.38	ug/L			12/08/13 23:17	1
Dibromochloromethane	0.33	U	5.0	0.33	ug/L			12/08/13 23:17	1
Chloroethane	0.38	U	10	0.38	ug/L			12/08/13 23:17	1
Chloroform	0.15	U	5.0	0.15	ug/L			12/08/13 23:17	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: TRIP BLANK
Date Collected: 12/06/13 00:00
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.55	U	10	0.55	ug/L			12/08/13 23:17	1
2-Chlorotoluene	0.34	U	5.0	0.34	ug/L			12/08/13 23:17	1
4-Chlorotoluene	0.31	U	5.0	0.31	ug/L			12/08/13 23:17	1
Dibromomethane	0.41	U	5.0	0.41	ug/L			12/08/13 23:17	1
1,2-Dichlorobenzene	0.28	U	5.0	0.28	ug/L			12/08/13 23:17	1
1,3-Dichlorobenzene	0.23	U	5.0	0.23	ug/L			12/08/13 23:17	1
1,4-Dichlorobenzene	0.35	U	5.0	0.35	ug/L			12/08/13 23:17	1
Dichlorodifluoromethane	0.45	U *	10	0.45	ug/L			12/08/13 23:17	1
1,1-Dichloroethane	0.39	U	5.0	0.39	ug/L			12/08/13 23:17	1
1,2-Dichloroethane	0.37	U	5.0	0.37	ug/L			12/08/13 23:17	1
cis-1,2-Dichloroethene	0.16	U	5.0	0.16	ug/L			12/08/13 23:17	1
trans-1,2-Dichloroethene	0.18	U	5.0	0.18	ug/L			12/08/13 23:17	1
1,1-Dichloroethene	0.37	U	5.0	0.37	ug/L			12/08/13 23:17	1
1,2-Dichloropropane	0.32	U	5.0	0.32	ug/L			12/08/13 23:17	1
1,3-Dichloropropane	0.24	U	5.0	0.24	ug/L			12/08/13 23:17	1
2,2-Dichloropropane	0.54	U	5.0	0.54	ug/L			12/08/13 23:17	1
cis-1,3-Dichloropropene	0.34	U	5.0	0.34	ug/L			12/08/13 23:17	1
trans-1,3-Dichloropropene	0.35	U	5.0	0.35	ug/L			12/08/13 23:17	1
1,1-Dichloropropene	0.30	U	5.0	0.30	ug/L			12/08/13 23:17	1
Ethylbenzene	0.30	U	5.0	0.30	ug/L			12/08/13 23:17	1
2-Hexanone	0.59	U	20	0.59	ug/L			12/08/13 23:17	1
Methyl iodide	1.5	U	5.0	1.5	ug/L			12/08/13 23:17	1
Isopropylbenzene	0.26	U	5.0	0.26	ug/L			12/08/13 23:17	1
Cymene	0.32	U	5.0	0.32	ug/L			12/08/13 23:17	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			12/08/13 23:17	1
4-Methyl-2-pentanone (MIBK)	0.33	U	20	0.33	ug/L			12/08/13 23:17	1
Methyl tert-butyl ether	0.40	U	5.0	0.40	ug/L			12/08/13 23:17	1
Naphthalene	0.85	U	5.0	0.85	ug/L			12/08/13 23:17	1
N-Propylbenzene	0.30	U	5.0	0.30	ug/L			12/08/13 23:17	1
Styrene	0.35	U	5.0	0.35	ug/L			12/08/13 23:17	1
1,1,1,2-Tetrachloroethane	0.25	U	5.0	0.25	ug/L			12/08/13 23:17	1
1,1,2,2-Tetrachloroethane	0.43	U	5.0	0.43	ug/L			12/08/13 23:17	1
Tetrachloroethene	0.28	U	5.0	0.28	ug/L			12/08/13 23:17	1
Toluene	1.0	U	5.0	1.0	ug/L			12/08/13 23:17	1
1,2,3-Trichlorobenzene	0.65	U	5.0	0.65	ug/L			12/08/13 23:17	1
1,2,4-Trichlorobenzene	0.55	U	5.0	0.55	ug/L			12/08/13 23:17	1
1,1,1-Trichloroethane	0.29	U	5.0	0.29	ug/L			12/08/13 23:17	1
1,1,2-Trichloroethane	0.57	U	5.0	0.57	ug/L			12/08/13 23:17	1
Trichloroethene	0.29	U	5.0	0.29	ug/L			12/08/13 23:17	1
Trichlorofluoromethane	0.22	U	5.0	0.22	ug/L			12/08/13 23:17	1
1,2,3-Trichloropropane	0.56	U	5.0	0.56	ug/L			12/08/13 23:17	1
1,2,4-Trimethylbenzene	0.40	U	5.0	0.40	ug/L			12/08/13 23:17	1
1,3,5-Trimethylbenzene	0.28	U	5.0	0.28	ug/L			12/08/13 23:17	1
Vinyl acetate	0.61	U	5.0	0.61	ug/L			12/08/13 23:17	1
Vinyl chloride	0.43	U	5.0	0.43	ug/L			12/08/13 23:17	1
m-Xylene & p-Xylene	0.57	U	5.0	0.57	ug/L			12/08/13 23:17	1
o-Xylene	0.32	U	5.0	0.32	ug/L			12/08/13 23:17	1
Xylenes, Total	0.85	U	10	0.85	ug/L			12/08/13 23:17	1
Ethanol	130	U	250	130	ug/L			12/08/13 23:17	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: TRIP BLANK
Date Collected: 12/06/13 00:00
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-14
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 123		12/08/13 23:17	1
1,2-Dichloroethane-d4 (Surr)	123		78 - 127		12/08/13 23:17	1
Toluene-d8 (Surr)	103		80 - 120		12/08/13 23:17	1
Dibromofluoromethane (Surr)	110		80 - 120		12/08/13 23:17	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 160-90351/1-A
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10.0	J	20	6.5	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Acetonitrile	20	U	50	20	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Benzene	0.25	U	5.0	0.25	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Bromobenzene	0.37	U	5.0	0.37	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Bromodichloromethane	0.25	U	5.0	0.25	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Bromoform	0.37	U	5.0	0.37	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Bromomethane	1.1	U	10	1.1	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
2-Butanone (MEK)	1.9	U	20	1.9	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Carbon disulfide	0.69	U	5.0	0.69	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Chlorobromomethane	0.82	U	5.0	0.82	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Carbon tetrachloride	0.51	U	5.0	0.51	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Chlorobenzene	0.38	U	5.0	0.38	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Chloroethane	0.52	U	10	0.52	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Chloroform	0.38	U	5.0	0.38	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Chloromethane	0.65	U	10	0.65	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
2-Chlorotoluene	0.34	U	5.0	0.34	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
4-Chlorotoluene	0.38	U	5.0	0.38	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Dibromochloromethane	0.41	U	5.0	0.41	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Dibromomethane	0.97	U	5.0	0.97	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2-Dichlorobenzene	0.28	U	5.0	0.28	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,4-Dichlorobenzene	0.60	U	5.0	0.60	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Dichlorodifluoromethane	1.3	U	10	1.3	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1-Dichloroethane	0.39	U	5.0	0.39	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
cis-1,2-Dichloroethene	0.60	U	5.0	0.60	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2-Dichloroethane	0.87	U	5.0	0.87	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1-Dichloroethene	1.6	U	5.0	1.6	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2-Dichloropropane	0.38	U	5.0	0.38	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,3-Dichloropropane	0.32	U	5.0	0.32	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
2,2-Dichloropropane	0.54	U	5.0	0.54	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
cis-1,3-Dichloropropene	0.60	U	5.0	0.60	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1-Dichloropropene	0.30	U	5.0	0.30	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Ethylbenzene	0.30	U	5.0	0.30	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
2-Hexanone	1.8	U	20	1.8	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Isopropylbenzene	0.26	U	5.0	0.26	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Cymene	0.32	U	5.0	0.32	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Methyl iodide	1.5	U	5.0	1.5	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Methylene Chloride	1.6	U	5.0	1.6	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
4-Methyl-2-pentanone (MIBK)	0.73	U	20	0.73	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Methyl tert-butyl ether	0.48	U	5.0	0.48	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Naphthalene	0.49	U	5.0	0.49	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
n-Butylbenzene	0.60	U	5.0	0.60	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
N-Propylbenzene	0.32	U	5.0	0.32	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
sec-Butylbenzene	0.31	U	5.0	0.31	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Styrene	0.35	U	5.0	0.35	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
tert-Butylbenzene	0.31	U	5.0	0.31	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1,1,2-Tetrachloroethane	0.35	U	5.0	0.35	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1,2,2-Tetrachloroethane	0.40	U	5.0	0.40	ug/Kg		12/08/13 07:30	12/08/13 10:21	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-90351/1-A
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	2.95	J	5.0	0.32	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Toluene	0.70	U	5.0	0.70	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
trans-1,2-Dichloroethene	0.94	U	5.0	0.94	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
trans-1,3-Dichloropropene	0.35	U	5.0	0.35	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2,3-Trichlorobenzene	0.44	U	5.0	0.44	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2,4-Trichlorobenzene	0.43	U	5.0	0.43	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1,1-Trichloroethane	0.43	U	5.0	0.43	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1,2-Trichloroethane	0.57	U	5.0	0.57	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
m-Xylene & p-Xylene	0.57	U	5.0	0.57	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Trichloroethene	0.39	U	5.0	0.39	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
o-Xylene	0.34	U	5.0	0.34	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Trichlorofluoromethane	0.50	U	5.0	0.50	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2,3-Trichloropropane	0.56	U	5.0	0.56	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2,4-Trimethylbenzene	0.60	U	5.0	0.60	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,3,5-Trimethylbenzene	0.31	U	5.0	0.31	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Vinyl acetate	0.78	U	5.0	0.78	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Vinyl chloride	0.43	U	5.0	0.43	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Ethanol	61	U	250	61	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Xylenes, Total	0.85	U	10	0.85	ug/Kg		12/08/13 07:30	12/08/13 10:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*63 - 150*	*12/08/13 07:30*	*12/08/13 10:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*72 - 127*	*12/08/13 07:30*	*12/08/13 10:21*	*1*
Toluene-d8 (Surr)	*112*		*80 - 120*	*12/08/13 07:30*	*12/08/13 10:21*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 126*	*12/08/13 07:30*	*12/08/13 10:21*	*1*

Lab Sample ID: LCS 160-90351/2-A
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	58.1		ug/Kg		116	59 - 129
Acetonitrile	500	493		ug/Kg		99	70 - 128
Benzene	50.0	47.2		ug/Kg		94	80 - 120
Bromobenzene	50.0	48.7		ug/Kg		97	80 - 120
Bromodichloromethane	50.0	47.9		ug/Kg		96	80 - 120
Bromoform	50.0	49.1		ug/Kg		98	84 - 126
Bromomethane	50.0	55.1		ug/Kg		110	74 - 128
2-Butanone (MEK)	50.0	56.4		ug/Kg		113	61 - 134
Carbon disulfide	50.0	46.0		ug/Kg		92	79 - 121
Chlorobromomethane	50.0	48.7		ug/Kg		97	80 - 120
Carbon tetrachloride	50.0	46.5		ug/Kg		93	80 - 125
Chlorobenzene	50.0	49.9		ug/Kg		100	80 - 120
Chloroethane	50.0	48.2		ug/Kg		96	73 - 129
Chloroform	50.0	46.3		ug/Kg		93	80 - 120
Chloromethane	50.0	48.9		ug/Kg		98	70 - 129
2-Chlorotoluene	50.0	44.4		ug/Kg		89	80 - 120
4-Chlorotoluene	50.0	44.9		ug/Kg		90	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-90351/2-A
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	50.0	50.5		ug/Kg		101	80 - 120
Dibromomethane	50.0	48.4		ug/Kg		97	80 - 120
1,2-Dichlorobenzene	50.0	50.0		ug/Kg		100	80 - 120
1,3-Dichlorobenzene	50.0	50.4		ug/Kg		101	80 - 120
1,4-Dichlorobenzene	50.0	46.9		ug/Kg		94	80 - 120
Dichlorodifluoromethane	50.0	46.5		ug/Kg		93	73 - 124
1,1-Dichloroethane	50.0	47.0		ug/Kg		94	80 - 120
cis-1,2-Dichloroethene	50.0	46.9		ug/Kg		94	80 - 120
1,2-Dichloroethane	50.0	50.6		ug/Kg		101	76 - 125
1,1-Dichloroethene	50.0	46.5		ug/Kg		93	80 - 120
1,2-Dichloropropane	50.0	47.5		ug/Kg		95	80 - 120
1,3-Dichloropropane	50.0	47.9		ug/Kg		96	80 - 120
2,2-Dichloropropane	50.0	35.5	*	ug/Kg		71	78 - 130
cis-1,3-Dichloropropene	50.0	49.1		ug/Kg		98	80 - 125
1,1-Dichloropropene	50.0	48.9		ug/Kg		98	80 - 120
Ethylbenzene	50.0	46.3		ug/Kg		93	80 - 120
2-Hexanone	50.0	60.1		ug/Kg		120	71 - 127
Isopropylbenzene	50.0	45.8		ug/Kg		92	80 - 120
Cymene	50.0	47.3		ug/Kg		95	82 - 124
Methyl iodide	50.0	48.5		ug/Kg		97	77 - 124
Methylene Chloride	50.0	44.2		ug/Kg		88	80 - 120
4-Methyl-2-pentanone (MIBK)	50.0	58.7		ug/Kg		117	75 - 127
Methyl tert-butyl ether	50.0	49.4		ug/Kg		99	83 - 124
Naphthalene	50.0	57.5		ug/Kg		115	58 - 140
n-Butylbenzene	50.0	44.5		ug/Kg		89	78 - 123
N-Propylbenzene	50.0	45.0		ug/Kg		90	82 - 123
sec-Butylbenzene	50.0	45.5		ug/Kg		91	81 - 121
Styrene	50.0	54.0		ug/Kg		108	80 - 120
tert-Butylbenzene	50.0	46.9		ug/Kg		94	80 - 120
1,1,1,2-Tetrachloroethane	50.0	48.4		ug/Kg		97	80 - 120
1,1,2,2-Tetrachloroethane	50.0	46.2		ug/Kg		92	78 - 121
Tetrachloroethene	50.0	54.5		ug/Kg		109	80 - 120
Toluene	50.0	48.3		ug/Kg		97	80 - 120
trans-1,2-Dichloroethene	50.0	47.2		ug/Kg		94	80 - 120
trans-1,3-Dichloropropene	50.0	48.6		ug/Kg		97	82 - 124
1,2,3-Trichlorobenzene	50.0	62.3		ug/Kg		125	52 - 140
1,2,4-Trichlorobenzene	50.0	59.6		ug/Kg		119	75 - 124
1,1,1-Trichloroethane	50.0	45.0		ug/Kg		90	81 - 124
1,1,2-Trichloroethane	50.0	45.9		ug/Kg		92	80 - 120
Trichloroethene	50.0	47.7		ug/Kg		95	80 - 120
Trichlorofluoromethane	50.0	50.1		ug/Kg		100	77 - 132
1,2,3-Trichloropropane	50.0	47.0		ug/Kg		94	77 - 120
1,2,4-Trimethylbenzene	50.0	46.1		ug/Kg		92	85 - 123
1,3,5-Trimethylbenzene	50.0	47.0		ug/Kg		94	80 - 120
Vinyl acetate	50.0	52.5		ug/Kg		105	67 - 134
Vinyl chloride	50.0	49.4		ug/Kg		99	65 - 123
Xylenes, Total	100	101		ug/Kg		101	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-90351/2-A
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90351

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		63 - 150
1,2-Dichloroethane-d4 (Surr)	111		72 - 127
Toluene-d8 (Surr)	108		80 - 120
Dibromofluoromethane (Surr)	110		70 - 126

Lab Sample ID: LCSD 160-90351/3-A
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 90351

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			50.0	57.4		ug/Kg		115	59 - 129	1	20
Acetonitrile			500	502		ug/Kg		100	70 - 128	2	20
Benzene			50.0	48.5		ug/Kg		97	80 - 120	3	20
Bromobenzene			50.0	49.0		ug/Kg		98	80 - 120	1	20
Bromodichloromethane			50.0	49.0		ug/Kg		98	80 - 120	2	20
Bromoform			50.0	50.0		ug/Kg		100	84 - 126	2	20
Bromomethane			50.0	51.3		ug/Kg		103	74 - 128	7	20
2-Butanone (MEK)			50.0	56.9		ug/Kg		114	61 - 134	1	20
Carbon disulfide			50.0	45.5		ug/Kg		91	79 - 121	1	20
Chlorobromomethane			50.0	49.5		ug/Kg		99	80 - 120	2	20
Carbon tetrachloride			50.0	48.0		ug/Kg		96	80 - 125	3	20
Chlorobenzene			50.0	49.6		ug/Kg		99	80 - 120	1	20
Chloroethane			50.0	47.1		ug/Kg		94	73 - 129	2	20
Chloroform			50.0	47.3		ug/Kg		95	80 - 120	2	20
Chloromethane			50.0	48.0		ug/Kg		96	70 - 129	2	20
2-Chlorotoluene			50.0	45.3		ug/Kg		91	80 - 120	2	20
4-Chlorotoluene			50.0	45.5		ug/Kg		91	80 - 120	1	20
Dibromochloromethane			50.0	50.8		ug/Kg		102	80 - 120	1	20
Dibromomethane			50.0	49.0		ug/Kg		98	80 - 120	1	20
1,2-Dichlorobenzene			50.0	50.6		ug/Kg		101	80 - 120	1	20
1,3-Dichlorobenzene			50.0	51.5		ug/Kg		103	80 - 120	2	20
1,4-Dichlorobenzene			50.0	47.7		ug/Kg		95	80 - 120	2	20
Dichlorodifluoromethane			50.0	42.8		ug/Kg		86	73 - 124	8	20
1,1-Dichloroethane			50.0	47.2		ug/Kg		94	80 - 120	1	20
cis-1,2-Dichloroethene			50.0	47.3		ug/Kg		95	80 - 120	1	20
1,2-Dichloroethane			50.0	50.4		ug/Kg		101	76 - 125	0	20
1,1-Dichloroethene			50.0	46.3		ug/Kg		93	80 - 120	1	20
1,2-Dichloropropane			50.0	48.3		ug/Kg		97	80 - 120	2	20
1,3-Dichloropropane			50.0	48.4		ug/Kg		97	80 - 120	1	20
2,2-Dichloropropane			50.0	37.4	*	ug/Kg		75	78 - 130	5	20
cis-1,3-Dichloropropene			50.0	48.8		ug/Kg		98	80 - 125	1	20
1,1-Dichloropropene			50.0	49.4		ug/Kg		99	80 - 120	1	20
Ethylbenzene			50.0	46.7		ug/Kg		93	80 - 120	1	20
2-Hexanone			50.0	58.9		ug/Kg		118	71 - 127	2	20
Isopropylbenzene			50.0	46.9		ug/Kg		94	80 - 120	2	20
Cymene			50.0	47.9		ug/Kg		96	82 - 124	1	20
Methyl iodide			50.0	48.4		ug/Kg		97	77 - 124	0	20
Methylene Chloride			50.0	43.1		ug/Kg		86	80 - 120	2	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 160-90351/3-A
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 90351

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)			50.0	58.3		ug/Kg		117	75 - 127	1	20
Methyl tert-butyl ether			50.0	49.0		ug/Kg		98	83 - 124	1	20
Naphthalene			50.0	59.6		ug/Kg		119	58 - 140	4	20
n-Butylbenzene			50.0	45.8		ug/Kg		92	78 - 123	3	20
N-Propylbenzene			50.0	46.1		ug/Kg		92	82 - 123	2	20
sec-Butylbenzene			50.0	46.2		ug/Kg		92	81 - 121	2	20
Styrene			50.0	53.3		ug/Kg		107	80 - 120	1	20
tert-Butylbenzene			50.0	47.5		ug/Kg		95	80 - 120	1	20
1,1,1,2-Tetrachloroethane			50.0	48.1		ug/Kg		96	80 - 120	1	20
1,1,2,2-Tetrachloroethane			50.0	46.1		ug/Kg		92	78 - 121	0	20
Tetrachloroethene			50.0	55.0		ug/Kg		110	80 - 120	1	20
Toluene			50.0	49.0		ug/Kg		98	80 - 120	1	20
trans-1,2-Dichloroethene			50.0	47.2		ug/Kg		94	80 - 120	0	20
trans-1,3-Dichloropropene			50.0	48.2		ug/Kg		96	82 - 124	1	20
1,2,3-Trichlorobenzene			50.0	64.5		ug/Kg		129	52 - 140	4	20
1,2,4-Trichlorobenzene			50.0	61.6		ug/Kg		123	75 - 124	3	20
1,1,1-Trichloroethane			50.0	45.6		ug/Kg		91	81 - 124	1	20
1,1,2-Trichloroethane			50.0	47.1		ug/Kg		94	80 - 120	3	20
Trichloroethene			50.0	49.6		ug/Kg		99	80 - 120	4	20
Trichlorofluoromethane			50.0	47.6		ug/Kg		95	77 - 132	5	20
1,2,3-Trichloropropane			50.0	46.8		ug/Kg		94	77 - 120	0	20
1,2,4-Trimethylbenzene			50.0	46.8		ug/Kg		94	85 - 123	2	20
1,3,5-Trimethylbenzene			50.0	48.2		ug/Kg		96	80 - 120	3	20
Vinyl acetate			50.0	54.6		ug/Kg		109	67 - 134	4	20
Vinyl chloride			50.0	48.5		ug/Kg		97	65 - 123	2	20
Xylenes, Total			100	100		ug/Kg		100	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*63 - 150*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 127*
Toluene-d8 (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*70 - 126*

Lab Sample ID: 680-96898-4 MS
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 90351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40	B	69.4	119		ug/Kg	☼	114	35 - 150
Acetonitrile	23	U	694	746		ug/Kg	☼	107	58 - 128
Benzene	0.28	U	69.4	65.1		ug/Kg	☼	94	80 - 120
Bromobenzene	0.42	U	69.4	67.2		ug/Kg	☼	97	87 - 125
Bromodichloromethane	0.28	U	69.4	70.6		ug/Kg	☼	102	77 - 131
Bromoform	0.42	U	69.4	72.9		ug/Kg	☼	105	80 - 120
Bromomethane	1.3	U	69.4	59.2		ug/Kg	☼	85	61 - 134
2-Butanone (MEK)	6.6	J	69.4	98.2	F	ug/Kg	☼	132	56 - 130
Carbon disulfide	0.78	U	69.4	48.3	F	ug/Kg	☼	70	74 - 125
Carbon tetrachloride	0.58	U	69.4	57.6		ug/Kg	☼	83	67 - 140

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-96898-4 MS
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 90351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	0.43	U	69.4	67.8		ug/Kg	☼	98	76 - 117
Chlorobromomethane	0.93	U	69.4	67.2		ug/Kg	☼	97	69 - 129
Chloroethane	0.59	U	69.4	60.1		ug/Kg	☼	87	65 - 134
Chloroform	0.43	U	69.4	64.5		ug/Kg	☼	93	79 - 124
Chloromethane	0.74	U	69.4	43.1		ug/Kg	☼	62	56 - 139
2-Chlorotoluene	0.39	U	69.4	60.4		ug/Kg	☼	87	84 - 127
4-Chlorotoluene	0.43	U	69.4	62.0		ug/Kg	☼	89	85 - 123
cis-1,2-Dichloroethene	0.68	U	69.4	63.4		ug/Kg	☼	91	75 - 121
cis-1,3-Dichloropropene	0.68	U	69.4	69.7		ug/Kg	☼	100	79 - 123
Cymene	0.36	U	69.4	62.0		ug/Kg	☼	89	42 - 150
Dibromochloromethane	0.47	U	69.4	73.4		ug/Kg	☼	106	80 - 120
Dibromomethane	1.1	U	69.4	74.1		ug/Kg	☼	107	75 - 122
1,2-Dichlorobenzene	0.32	U	69.4	72.5		ug/Kg	☼	105	48 - 138
1,3-Dichlorobenzene	0.32	U	69.4	70.2		ug/Kg	☼	101	73 - 119
1,4-Dichlorobenzene	0.68	U	69.4	65.7		ug/Kg	☼	95	80 - 120
Dichlorodifluoromethane	1.5	U	69.4	30.6	F	ug/Kg	☼	44	69 - 135
1,1-Dichloroethane	0.44	U	69.4	62.9		ug/Kg	☼	91	80 - 120
1,2-Dichloroethane	0.99	U	69.4	72.9		ug/Kg	☼	105	64 - 137
1,1-Dichloroethene	1.8	U	69.4	54.9		ug/Kg	☼	79	55 - 150
1,2-Dichloropropane	0.43	U	69.4	68.9		ug/Kg	☼	99	80 - 120
1,3-Dichloropropane	0.36	U	69.4	70.3		ug/Kg	☼	101	80 - 120
2,2-Dichloropropane	0.61	U *	69.4	46.7		ug/Kg	☼	67	61 - 146
1,1-Dichloropropene	0.34	U	69.4	61.3		ug/Kg	☼	88	80 - 120
Ethylbenzene	0.34	U	69.4	62.9		ug/Kg	☼	91	80 - 120
2-Hexanone	2.0	U	69.4	94.0	F	ug/Kg	☼	135	62 - 118
Isopropylbenzene	0.30	U	69.4	61.0		ug/Kg	☼	88	84 - 132
Methylene Chloride	1.8	U	69.4	60.1		ug/Kg	☼	87	74 - 123
Methyl iodide	1.7	U	69.4	57.6		ug/Kg	☼	83	50 - 148
4-Methyl-2-pentanone (MIBK)	0.83	U	69.4	98.5	F	ug/Kg	☼	142	68 - 130
Methyl tert-butyl ether	0.55	U	69.4	72.2		ug/Kg	☼	104	67 - 138
Naphthalene	0.56	U	69.4	95.1	F	ug/Kg	☼	137	48 - 136
n-Butylbenzene	0.68	U	69.4	60.1		ug/Kg	☼	87	33 - 150
N-Propylbenzene	0.36	U	69.4	60.5		ug/Kg	☼	87	78 - 135
sec-Butylbenzene	0.35	U	69.4	59.2		ug/Kg	☼	85	68 - 131
Styrene	0.40	U	69.4	71.0		ug/Kg	☼	102	80 - 122
tert-Butylbenzene	0.35	U	69.4	61.5		ug/Kg	☼	89	79 - 125
1,1,1,2-Tetrachloroethane	0.40	U	69.4	67.6		ug/Kg	☼	98	80 - 120
1,1,2,2-Tetrachloroethane	0.45	U	69.4	75.1		ug/Kg	☼	108	55 - 150
Tetrachloroethene	2.7	J B	69.4	64.5		ug/Kg	☼	89	77 - 128
Toluene	0.80	U	69.4	65.0		ug/Kg	☼	94	79 - 139
trans-1,2-Dichloroethene	1.1	U	69.4	58.7		ug/Kg	☼	85	75 - 121
trans-1,3-Dichloropropene	0.40	U	69.4	69.4		ug/Kg	☼	100	73 - 148
1,2,3-Trichlorobenzene	0.50	U	69.4	84.4		ug/Kg	☼	122	13 - 130
1,2,4-Trichlorobenzene	0.49	U	69.4	77.6		ug/Kg	☼	112	21 - 143
1,1,1-Trichloroethane	0.49	U	69.4	58.9		ug/Kg	☼	85	83 - 128
1,1,2-Trichloroethane	0.65	U	69.4	71.0		ug/Kg	☼	102	80 - 120
Trichloroethene	0.44	U	69.4	65.1		ug/Kg	☼	94	75 - 123
Trichlorofluoromethane	0.57	U	69.4	59.6		ug/Kg	☼	86	67 - 146

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-96898-4 MS
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 90351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	0.64	U	69.4	74.0		ug/Kg	☼	107	54 - 150
1,2,4-Trimethylbenzene	0.68	U	69.4	62.2		ug/Kg	☼	90	73 - 150
1,3,5-Trimethylbenzene	0.35	U	69.4	63.0		ug/Kg	☼	91	52 - 150
Vinyl acetate	0.89	U	69.4	80.7		ug/Kg	☼	116	10 - 124
Vinyl chloride	0.49	U	69.4	48.0		ug/Kg	☼	69	59 - 125
Xylenes, Total	0.97	U	139	134		ug/Kg	☼	97	72 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*63 - 150*
Dibromofluoromethane (Surr)	*111*		*70 - 126*
1,2-Dichloroethane-d4 (Surr)	*123*		*72 - 127*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: 680-96898-4 MSD
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 90351

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	40	B	74.0	121		ug/Kg	☼	109	35 - 150	2	20
Acetonitrile	23	U	740	772		ug/Kg	☼	104	58 - 128	3	20
Benzene	0.28	U	74.0	71.5		ug/Kg	☼	97	80 - 120	9	20
Bromobenzene	0.42	U	74.0	73.7		ug/Kg	☼	99	87 - 125	9	20
Bromodichloromethane	0.28	U	74.0	78.1		ug/Kg	☼	105	77 - 131	10	20
Bromoform	0.42	U	74.0	80.1		ug/Kg	☼	108	80 - 120	9	20
Bromomethane	1.3	U	74.0	65.6		ug/Kg	☼	89	61 - 134	10	20
2-Butanone (MEK)	6.6	J	74.0	99.6		ug/Kg	☼	126	56 - 130	1	20
Carbon disulfide	0.78	U	74.0	53.7	F	ug/Kg	☼	73	74 - 125	11	20
Carbon tetrachloride	0.58	U	74.0	65.2		ug/Kg	☼	88	67 - 140	12	20
Chlorobenzene	0.43	U	74.0	74.3		ug/Kg	☼	100	76 - 117	9	20
Chlorobromomethane	0.93	U	74.0	73.6		ug/Kg	☼	99	69 - 129	9	20
Chloroethane	0.59	U	74.0	63.1		ug/Kg	☼	85	65 - 134	5	20
Chloroform	0.43	U	74.0	70.7		ug/Kg	☼	96	79 - 124	9	20
Chloromethane	0.74	U	74.0	47.9		ug/Kg	☼	65	56 - 139	11	20
2-Chlorotoluene	0.39	U	74.0	66.3		ug/Kg	☼	90	84 - 127	9	20
4-Chlorotoluene	0.43	U	74.0	66.8		ug/Kg	☼	90	85 - 123	7	20
cis-1,2-Dichloroethene	0.68	U	74.0	71.1		ug/Kg	☼	96	75 - 121	12	20
cis-1,3-Dichloropropene	0.68	U	74.0	76.9		ug/Kg	☼	104	79 - 123	10	20
Cymene	0.36	U	74.0	67.0		ug/Kg	☼	90	42 - 150	8	20
Dibromochloromethane	0.47	U	74.0	78.7		ug/Kg	☼	106	80 - 120	7	20
Dibromomethane	1.1	U	74.0	79.9		ug/Kg	☼	108	75 - 122	8	20
1,2-Dichlorobenzene	0.32	U	74.0	77.8		ug/Kg	☼	105	48 - 138	7	20
1,3-Dichlorobenzene	0.32	U	74.0	76.0		ug/Kg	☼	103	73 - 119	8	20
1,4-Dichlorobenzene	0.68	U	74.0	72.0		ug/Kg	☼	97	80 - 120	9	20
Dichlorodifluoromethane	1.5	U	74.0	34.2	F	ug/Kg	☼	46	69 - 135	11	20
1,1-Dichloroethane	0.44	U	74.0	69.3		ug/Kg	☼	94	80 - 120	10	20
1,2-Dichloroethane	0.99	U	74.0	79.6		ug/Kg	☼	108	64 - 137	9	20
1,1-Dichloroethene	1.8	U	74.0	61.6		ug/Kg	☼	83	55 - 150	11	20
1,2-Dichloropropane	0.43	U	74.0	76.5		ug/Kg	☼	103	80 - 120	10	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-96898-4 MSD
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 90351

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichloropropane	0.36	U	74.0	77.7		ug/Kg	☼	105	80 - 120	10	20
2,2-Dichloropropane	0.61	U *	74.0	50.6		ug/Kg	☼	68	61 - 146	8	20
1,1-Dichloropropene	0.34	U	74.0	69.2		ug/Kg	☼	93	80 - 120	12	20
Ethylbenzene	0.34	U	74.0	68.0		ug/Kg	☼	92	80 - 120	8	20
2-Hexanone	2.0	U	74.0	110	F	ug/Kg	☼	149	62 - 118	16	20
Isopropylbenzene	0.30	U	74.0	66.3		ug/Kg	☼	89	84 - 132	8	20
Methylene Chloride	1.8	U	74.0	65.3		ug/Kg	☼	88	74 - 123	8	20
Methyl iodide	1.7	U	74.0	64.8		ug/Kg	☼	87	50 - 148	12	20
4-Methyl-2-pentanone (MIBK)	0.83	U	74.0	104	F	ug/Kg	☼	140	68 - 130	5	20
Methyl tert-butyl ether	0.55	U	74.0	78.7		ug/Kg	☼	106	67 - 138	9	20
Naphthalene	0.56	U	74.0	104	F	ug/Kg	☼	140	48 - 136	9	20
n-Butylbenzene	0.68	U	74.0	63.5		ug/Kg	☼	86	33 - 150	5	20
N-Propylbenzene	0.36	U	74.0	65.4		ug/Kg	☼	88	78 - 135	8	20
sec-Butylbenzene	0.35	U	74.0	64.1		ug/Kg	☼	87	68 - 131	8	20
Styrene	0.40	U	74.0	76.6		ug/Kg	☼	103	80 - 122	8	20
tert-Butylbenzene	0.35	U	74.0	67.2		ug/Kg	☼	91	79 - 125	9	20
1,1,1,2-Tetrachloroethane	0.40	U	74.0	75.1		ug/Kg	☼	101	80 - 120	10	20
1,1,2,2-Tetrachloroethane	0.45	U	74.0	80.6		ug/Kg	☼	109	55 - 150	7	20
Tetrachloroethene	2.7	J B	74.0	70.0		ug/Kg	☼	91	77 - 128	8	20
Toluene	0.80	U	74.0	70.6		ug/Kg	☼	95	79 - 139	8	20
trans-1,2-Dichloroethene	1.1	U	74.0	64.4		ug/Kg	☼	87	75 - 121	9	20
trans-1,3-Dichloropropene	0.40	U	74.0	74.2		ug/Kg	☼	100	73 - 148	7	20
1,2,3-Trichlorobenzene	0.50	U	74.0	90.8		ug/Kg	☼	123	13 - 130	7	20
1,2,4-Trichlorobenzene	0.49	U	74.0	85.6		ug/Kg	☼	116	21 - 143	10	20
1,1,1-Trichloroethane	0.49	U	74.0	65.1		ug/Kg	☼	88	83 - 128	10	20
1,1,2-Trichloroethane	0.65	U	74.0	77.1		ug/Kg	☼	104	80 - 120	8	20
Trichloroethene	0.44	U	74.0	69.7		ug/Kg	☼	94	75 - 123	7	20
Trichlorofluoromethane	0.57	U	74.0	64.3		ug/Kg	☼	87	67 - 146	8	20
1,2,3-Trichloropropane	0.64	U	74.0	79.1		ug/Kg	☼	107	54 - 150	7	20
1,2,4-Trimethylbenzene	0.68	U	74.0	68.3		ug/Kg	☼	92	73 - 150	9	20
1,3,5-Trimethylbenzene	0.35	U	74.0	68.4		ug/Kg	☼	92	52 - 150	8	20
Vinyl acetate	0.89	U	74.0	87.6		ug/Kg	☼	118	10 - 124	8	20
Vinyl chloride	0.49	U	74.0	54.6		ug/Kg	☼	74	59 - 125	13	20
Xylenes, Total	0.97	U	148	148		ug/Kg	☼	100	72 - 125	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*63 - 150*
Dibromofluoromethane (Surr)	*114*		*70 - 126*
1,2-Dichloroethane-d4 (Surr)	*122*		*72 - 127*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: MB 160-90507/3-A
Matrix: Water
Analysis Batch: 90507

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.7	U	20	6.7	ug/L			12/08/13 18:15	1
Acetonitrile	7.3	U	50	7.3	ug/L			12/08/13 18:15	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-90507/3-A
Matrix: Water
Analysis Batch: 90507

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.25	U	5.0	0.25	ug/L			12/08/13 18:15	1
Bromobenzene	0.33	U	5.0	0.33	ug/L			12/08/13 18:15	1
Bromodichloromethane	0.25	U	5.0	0.25	ug/L			12/08/13 18:15	1
Bromoform	0.37	U	5.0	0.37	ug/L			12/08/13 18:15	1
Bromomethane	0.40	U	10	0.40	ug/L			12/08/13 18:15	1
2-Butanone (MEK)	0.39	U	20	0.39	ug/L			12/08/13 18:15	1
Carbon disulfide	0.37	U	5.0	0.37	ug/L			12/08/13 18:15	1
Chlorobromomethane	0.55	U	5.0	0.55	ug/L			12/08/13 18:15	1
Carbon tetrachloride	0.36	U	5.0	0.36	ug/L			12/08/13 18:15	1
Chlorobenzene	0.38	U	5.0	0.38	ug/L			12/08/13 18:15	1
Chloroethane	0.38	U	10	0.38	ug/L			12/08/13 18:15	1
Chloroform	0.15	U	5.0	0.15	ug/L			12/08/13 18:15	1
Chloromethane	0.55	U	10	0.55	ug/L			12/08/13 18:15	1
2-Chlorotoluene	0.34	U	5.0	0.34	ug/L			12/08/13 18:15	1
4-Chlorotoluene	0.31	U	5.0	0.31	ug/L			12/08/13 18:15	1
Dibromochloromethane	0.33	U	5.0	0.33	ug/L			12/08/13 18:15	1
Dibromomethane	0.41	U	5.0	0.41	ug/L			12/08/13 18:15	1
1,2-Dichlorobenzene	0.28	U	5.0	0.28	ug/L			12/08/13 18:15	1
1,3-Dichlorobenzene	0.23	U	5.0	0.23	ug/L			12/08/13 18:15	1
1,4-Dichlorobenzene	0.35	U	5.0	0.35	ug/L			12/08/13 18:15	1
Dichlorodifluoromethane	0.45	U	10	0.45	ug/L			12/08/13 18:15	1
1,1-Dichloroethane	0.39	U	5.0	0.39	ug/L			12/08/13 18:15	1
cis-1,2-Dichloroethene	0.16	U	5.0	0.16	ug/L			12/08/13 18:15	1
1,2-Dichloroethane	0.37	U	5.0	0.37	ug/L			12/08/13 18:15	1
1,1-Dichloroethene	0.37	U	5.0	0.37	ug/L			12/08/13 18:15	1
1,2-Dichloropropane	0.32	U	5.0	0.32	ug/L			12/08/13 18:15	1
1,3-Dichloropropane	0.24	U	5.0	0.24	ug/L			12/08/13 18:15	1
2,2-Dichloropropane	0.54	U	5.0	0.54	ug/L			12/08/13 18:15	1
cis-1,3-Dichloropropene	0.34	U	5.0	0.34	ug/L			12/08/13 18:15	1
1,1-Dichloropropene	0.30	U	5.0	0.30	ug/L			12/08/13 18:15	1
Ethylbenzene	0.30	U	5.0	0.30	ug/L			12/08/13 18:15	1
2-Hexanone	0.59	U	20	0.59	ug/L			12/08/13 18:15	1
Isopropylbenzene	0.26	U	5.0	0.26	ug/L			12/08/13 18:15	1
Cymene	0.32	U	5.0	0.32	ug/L			12/08/13 18:15	1
Methyl iodide	1.5	U	5.0	1.5	ug/L			12/08/13 18:15	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			12/08/13 18:15	1
4-Methyl-2-pentanone (MIBK)	0.33	U	20	0.33	ug/L			12/08/13 18:15	1
Methyl tert-butyl ether	0.40	U	5.0	0.40	ug/L			12/08/13 18:15	1
Naphthalene	0.85	U	5.0	0.85	ug/L			12/08/13 18:15	1
n-Butylbenzene	0.23	U	5.0	0.23	ug/L			12/08/13 18:15	1
N-Propylbenzene	0.30	U	5.0	0.30	ug/L			12/08/13 18:15	1
sec-Butylbenzene	0.31	U	5.0	0.31	ug/L			12/08/13 18:15	1
Styrene	0.35	U	5.0	0.35	ug/L			12/08/13 18:15	1
tert-Butylbenzene	0.31	U	5.0	0.31	ug/L			12/08/13 18:15	1
1,1,1,2-Tetrachloroethane	0.25	U	5.0	0.25	ug/L			12/08/13 18:15	1
1,1,2,2-Tetrachloroethane	0.43	U	5.0	0.43	ug/L			12/08/13 18:15	1
Tetrachloroethene	0.28	U	5.0	0.28	ug/L			12/08/13 18:15	1
Toluene	1.0	U	5.0	1.0	ug/L			12/08/13 18:15	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-90507/3-A
Matrix: Water
Analysis Batch: 90507

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.18	U	5.0	0.18	ug/L			12/08/13 18:15	1
trans-1,3-Dichloropropene	0.35	U	5.0	0.35	ug/L			12/08/13 18:15	1
1,2,3-Trichlorobenzene	0.65	U	5.0	0.65	ug/L			12/08/13 18:15	1
1,2,4-Trichlorobenzene	0.55	U	5.0	0.55	ug/L			12/08/13 18:15	1
1,1,1-Trichloroethane	0.29	U	5.0	0.29	ug/L			12/08/13 18:15	1
1,1,2-Trichloroethane	0.57	U	5.0	0.57	ug/L			12/08/13 18:15	1
m-Xylene & p-Xylene	0.57	U	5.0	0.57	ug/L			12/08/13 18:15	1
Trichloroethene	0.29	U	5.0	0.29	ug/L			12/08/13 18:15	1
o-Xylene	0.32	U	5.0	0.32	ug/L			12/08/13 18:15	1
Trichlorofluoromethane	0.22	U	5.0	0.22	ug/L			12/08/13 18:15	1
1,2,3-Trichloropropane	0.56	U	5.0	0.56	ug/L			12/08/13 18:15	1
1,2,4-Trimethylbenzene	0.40	U	5.0	0.40	ug/L			12/08/13 18:15	1
1,3,5-Trimethylbenzene	0.28	U	5.0	0.28	ug/L			12/08/13 18:15	1
Vinyl acetate	0.61	U	5.0	0.61	ug/L			12/08/13 18:15	1
Vinyl chloride	0.43	U	5.0	0.43	ug/L			12/08/13 18:15	1
Ethanol	130	U	250	130	ug/L			12/08/13 18:15	1
Xylenes, Total	0.85	U	10	0.85	ug/L			12/08/13 18:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*75 - 123*		*12/08/13 18:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*78 - 127*		*12/08/13 18:15*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*12/08/13 18:15*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*12/08/13 18:15*	*1*

Lab Sample ID: LCS 160-90507/4-A
Matrix: Water
Analysis Batch: 90507

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	53.1		ug/L		106	72 - 139
Acetonitrile	500	386		ug/L		77	75 - 129
Benzene	50.0	51.1		ug/L		102	80 - 120
Bromobenzene	50.0	49.4		ug/L		99	80 - 120
Bromodichloromethane	50.0	53.0		ug/L		106	80 - 120
Bromoform	50.0	53.6		ug/L		107	80 - 120
Bromomethane	50.0	65.9		ug/L		132	48 - 140
2-Butanone (MEK)	50.0	61.5		ug/L		123	68 - 128
Carbon disulfide	50.0	51.6		ug/L		103	79 - 120
Chlorobromomethane	50.0	51.4		ug/L		103	80 - 120
Carbon tetrachloride	50.0	49.2		ug/L		98	74 - 128
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120
Chloroethane	50.0	65.0		ug/L		130	55 - 140
Chloroform	50.0	50.8		ug/L		102	80 - 120
Chloromethane	50.0	59.4		ug/L		119	72 - 123
2-Chlorotoluene	50.0	49.3		ug/L		99	80 - 122
4-Chlorotoluene	50.0	50.6		ug/L		101	80 - 122
Dibromochloromethane	50.0	54.0		ug/L		108	80 - 120
Dibromomethane	50.0	53.1		ug/L		106	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-90507/4-A
Matrix: Water
Analysis Batch: 90507

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	51.1		ug/L		102	76 - 122
1,3-Dichlorobenzene	50.0	50.7		ug/L		101	77 - 122
1,4-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 120
Dichlorodifluoromethane	50.0	75.4	*	ug/L		151	49 - 140
1,1-Dichloroethane	50.0	51.2		ug/L		102	80 - 120
cis-1,2-Dichloroethene	50.0	51.0		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	54.6		ug/L		109	80 - 120
1,1-Dichloroethene	50.0	50.0		ug/L		100	77 - 121
1,2-Dichloropropane	50.0	51.9		ug/L		104	80 - 120
1,3-Dichloropropane	50.0	51.8		ug/L		104	80 - 120
2,2-Dichloropropane	50.0	45.3		ug/L		91	73 - 134
cis-1,3-Dichloropropene	50.0	53.3		ug/L		107	80 - 120
1,1-Dichloropropene	50.0	51.6		ug/L		103	80 - 120
Ethylbenzene	50.0	46.8		ug/L		94	80 - 120
2-Hexanone	50.0	54.9		ug/L		110	64 - 136
Isopropylbenzene	50.0	49.4		ug/L		99	80 - 127
Cymene	50.0	49.4		ug/L		99	85 - 125
Methyl iodide	50.0	48.1		ug/L		96	72 - 130
Methylene Chloride	50.0	49.7		ug/L		99	79 - 115
4-Methyl-2-pentanone (MIBK)	50.0	56.0		ug/L		112	74 - 129
Methyl tert-butyl ether	50.0	53.1		ug/L		106	77 - 124
Naphthalene	50.0	53.7		ug/L		107	71 - 133
n-Butylbenzene	50.0	50.4		ug/L		101	87 - 123
N-Propylbenzene	50.0	48.1		ug/L		96	79 - 125
sec-Butylbenzene	50.0	47.2		ug/L		94	80 - 123
Styrene	50.0	51.0		ug/L		102	80 - 120
tert-Butylbenzene	50.0	51.6		ug/L		103	78 - 128
1,1,1,2-Tetrachloroethane	50.0	51.3		ug/L		103	80 - 120
1,1,2,2-Tetrachloroethane	50.0	51.5		ug/L		103	80 - 120
Tetrachloroethene	50.0	51.1		ug/L		102	80 - 120
Toluene	50.0	50.6		ug/L		101	80 - 120
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	80 - 120
trans-1,3-Dichloropropene	50.0	52.6		ug/L		105	80 - 120
1,2,3-Trichlorobenzene	50.0	50.5		ug/L		101	75 - 130
1,2,4-Trichlorobenzene	50.0	51.5		ug/L		103	82 - 124
1,1,1-Trichloroethane	50.0	50.6		ug/L		101	75 - 127
1,1,2-Trichloroethane	50.0	53.1		ug/L		106	80 - 120
Trichloroethene	50.0	50.6		ug/L		101	80 - 120
Trichlorofluoromethane	50.0	58.1		ug/L		116	72 - 132
1,2,3-Trichloropropane	50.0	52.0		ug/L		104	80 - 120
1,2,4-Trimethylbenzene	50.0	49.9		ug/L		100	84 - 122
1,3,5-Trimethylbenzene	50.0	49.9		ug/L		100	87 - 123
Vinyl acetate	50.0	57.2		ug/L		114	43 - 140
Vinyl chloride	50.0	55.3		ug/L		111	68 - 120
Xylenes, Total	100	100		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*75 - 123*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-90507/4-A
Matrix: Water
Analysis Batch: 90507

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*116*		*78 - 127*
Toluene-d8 (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*80 - 120*

Lab Sample ID: 680-96898-13 MS
Matrix: Water
Analysis Batch: 90507

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	6.7	U	50.0	67.7		ug/L		135	54 - 140
Acetonitrile	7.3	U	500	620		ug/L		124	71 - 135
Benzene	0.25	U	50.0	51.4		ug/L		103	72 - 123
Bromobenzene	0.33	U	50.0	48.7		ug/L		97	79 - 120
Bromodichloromethane	0.25	U	50.0	56.5		ug/L		113	80 - 120
Bromoform	0.37	U	50.0	55.6		ug/L		111	78 - 122
Bromomethane	0.40	U	50.0	68.9		ug/L		138	51 - 146
2-Butanone (MEK)	0.39	U	50.0	62.4		ug/L		125	62 - 135
Carbon disulfide	0.37	U	50.0	50.9		ug/L		102	80 - 120
Chlorobromomethane	0.55	U	50.0	52.1		ug/L		104	80 - 120
Carbon tetrachloride	0.36	U	50.0	51.8		ug/L		104	80 - 124
Chlorobenzene	0.38	U	50.0	50.1		ug/L		100	80 - 120
Chloroethane	0.38	U	50.0	62.3		ug/L		125	53 - 148
Chloroform	0.15	U	50.0	53.5		ug/L		107	80 - 120
Chloromethane	0.55	U	50.0	60.1		ug/L		120	80 - 120
2-Chlorotoluene	0.34	U	50.0	49.2		ug/L		98	80 - 120
4-Chlorotoluene	0.31	U	50.0	50.8		ug/L		102	77 - 120
Dibromochloromethane	0.33	U	50.0	55.7		ug/L		111	80 - 120
Dibromomethane	0.41	U	50.0	57.3		ug/L		115	80 - 120
1,2-Dichlorobenzene	0.28	U	50.0	51.2		ug/L		102	77 - 117
1,3-Dichlorobenzene	0.23	U	50.0	49.3		ug/L		99	80 - 120
1,4-Dichlorobenzene	0.35	U	50.0	50.2		ug/L		100	80 - 120
Dichlorodifluoromethane	0.45	U *	50.0	73.8	F	ug/L		148	70 - 131
1,1-Dichloroethane	0.39	U	50.0	52.7		ug/L		105	80 - 120
cis-1,2-Dichloroethene	0.16	U	50.0	51.3		ug/L		103	80 - 120
1,2-Dichloroethane	0.37	U	50.0	60.8	F	ug/L		122	80 - 120
1,1-Dichloroethene	0.37	U	50.0	47.1		ug/L		94	80 - 120
1,2-Dichloropropane	0.32	U	50.0	52.3		ug/L		105	80 - 120
1,3-Dichloropropane	0.24	U	50.0	53.2		ug/L		106	80 - 120
2,2-Dichloropropane	0.54	U	50.0	40.0	F	ug/L		80	81 - 128
cis-1,3-Dichloropropene	0.34	U	50.0	51.1		ug/L		102	80 - 120
1,1-Dichloropropene	0.30	U	50.0	51.3		ug/L		103	80 - 120
Ethylbenzene	0.30	U	50.0	48.0		ug/L		96	80 - 120
2-Hexanone	0.59	U	50.0	59.4		ug/L		119	65 - 136
Isopropylbenzene	0.26	U	50.0	47.8		ug/L		96	78 - 125
Cymene	0.32	U	50.0	47.7		ug/L		95	84 - 124
Methyl iodide	1.5	U	50.0	48.7		ug/L		97	77 - 125
Methylene Chloride	1.7	U	50.0	51.6		ug/L		103	80 - 120
4-Methyl-2-pentanone (MIBK)	0.33	U	50.0	61.3		ug/L		123	74 - 132

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-96898-13 MS
Matrix: Water
Analysis Batch: 90507

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	0.40	U	50.0	56.7		ug/L		113	78 - 124
Naphthalene	0.85	U	50.0	62.5		ug/L		125	53 - 148
n-Butylbenzene	0.23	U	50.0	46.3		ug/L		93	81 - 125
N-Propylbenzene	0.30	U	50.0	48.2		ug/L		96	78 - 124
sec-Butylbenzene	0.31	U	50.0	46.2		ug/L		92	78 - 120
Styrene	0.35	U	50.0	51.1		ug/L		102	80 - 120
tert-Butylbenzene	0.31	U	50.0	50.0		ug/L		100	79 - 122
1,1,1,2-Tetrachloroethane	0.25	U	50.0	50.9		ug/L		102	80 - 120
1,1,2,2-Tetrachloroethane	0.43	U	50.0	53.8		ug/L		108	72 - 125
Tetrachloroethene	0.28	U	50.0	46.0		ug/L		92	80 - 120
Toluene	1.0	J	50.0	50.3		ug/L		98	80 - 120
trans-1,2-Dichloroethene	0.18	U	50.0	48.8		ug/L		98	80 - 120
trans-1,3-Dichloropropene	0.35	U	50.0	54.8		ug/L		110	77 - 122
1,2,3-Trichlorobenzene	0.65	U	50.0	57.2		ug/L		114	62 - 126
1,2,4-Trichlorobenzene	0.55	U	50.0	54.7		ug/L		109	78 - 124
1,1,1-Trichloroethane	0.29	U	50.0	52.3		ug/L		105	81 - 123
1,1,2-Trichloroethane	0.57	U	50.0	54.8		ug/L		110	76 - 119
Trichloroethene	0.29	U	50.0	50.4		ug/L		101	80 - 120
Trichlorofluoromethane	0.22	U	50.0	60.6		ug/L		121	79 - 128
1,2,3-Trichloropropane	0.56	U	50.0	56.0		ug/L		112	72 - 120
1,2,4-Trimethylbenzene	0.40	U	50.0	49.2		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	0.28	U	50.0	48.4		ug/L		97	80 - 122
Vinyl acetate	0.61	U	50.0	59.5		ug/L		119	47 - 150
Vinyl chloride	0.43	U	50.0	56.1		ug/L		112	75 - 118
Xylenes, Total	0.85	U	100	96.7		ug/L		97	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*75 - 123*
1,2-Dichloroethane-d4 (Surr)	*130*	*X*	*78 - 127*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*80 - 120*

Lab Sample ID: 680-96898-13 MSD
Matrix: Water
Analysis Batch: 90507

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	6.7	U	50.0	71.4	F	ug/L		143	54 - 140	5	20
Acetonitrile	7.3	U	500	620		ug/L		124	71 - 135	0	20
Benzene	0.25	U	50.0	54.4		ug/L		109	72 - 123	6	20
Bromobenzene	0.33	U	50.0	50.1		ug/L		100	79 - 120	3	20
Bromodichloromethane	0.25	U	50.0	59.4		ug/L		119	80 - 120	5	20
Bromoform	0.37	U	50.0	56.4		ug/L		113	78 - 122	1	20
Bromomethane	0.40	U	50.0	74.2	F	ug/L		148	51 - 146	7	20
2-Butanone (MEK)	0.39	U	50.0	63.9		ug/L		128	62 - 135	2	20
Carbon disulfide	0.37	U	50.0	53.0		ug/L		106	80 - 120	4	20
Chlorobromomethane	0.55	U	50.0	55.4		ug/L		111	80 - 120	6	20
Carbon tetrachloride	0.36	U	50.0	53.3		ug/L		107	80 - 124	3	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-96898-13 MSD
Matrix: Water
Analysis Batch: 90507

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	0.38	U	50.0	52.9		ug/L		106	80 - 120	5	20
Chloroethane	0.38	U	50.0	66.9		ug/L		134	53 - 148	7	20
Chloroform	0.15	U	50.0	55.8		ug/L		112	80 - 120	4	20
Chloromethane	0.55	U	50.0	64.8	F	ug/L		130	80 - 120	8	20
2-Chlorotoluene	0.34	U	50.0	51.1		ug/L		102	80 - 120	4	20
4-Chlorotoluene	0.31	U	50.0	52.1		ug/L		104	77 - 120	3	20
Dibromochloromethane	0.33	U	50.0	57.3		ug/L		115	80 - 120	3	20
Dibromomethane	0.41	U	50.0	58.5		ug/L		117	80 - 120	2	20
1,2-Dichlorobenzene	0.28	U	50.0	52.7		ug/L		105	77 - 117	3	20
1,3-Dichlorobenzene	0.23	U	50.0	50.7		ug/L		101	80 - 120	3	20
1,4-Dichlorobenzene	0.35	U	50.0	51.8		ug/L		104	80 - 120	3	20
Dichlorodifluoromethane	0.45	U *	50.0	79.1	F	ug/L		158	70 - 131	7	20
1,1-Dichloroethane	0.39	U	50.0	54.9		ug/L		110	80 - 120	4	20
cis-1,2-Dichloroethene	0.16	U	50.0	53.4		ug/L		107	80 - 120	4	20
1,2-Dichloroethane	0.37	U	50.0	62.5	F	ug/L		125	80 - 120	3	20
1,1-Dichloroethene	0.37	U	50.0	52.0		ug/L		104	80 - 120	10	20
1,2-Dichloropropane	0.32	U	50.0	55.1		ug/L		110	80 - 120	5	20
1,3-Dichloropropane	0.24	U	50.0	55.9		ug/L		112	80 - 120	5	20
2,2-Dichloropropane	0.54	U	50.0	40.9		ug/L		82	81 - 128	2	20
cis-1,3-Dichloropropene	0.34	U	50.0	53.6		ug/L		107	80 - 120	5	20
1,1-Dichloropropene	0.30	U	50.0	54.0		ug/L		108	80 - 120	5	20
Ethylbenzene	0.30	U	50.0	48.9		ug/L		98	80 - 120	2	20
2-Hexanone	0.59	U	50.0	64.9		ug/L		130	65 - 136	9	20
Isopropylbenzene	0.26	U	50.0	49.5		ug/L		99	78 - 125	3	20
Cymene	0.32	U	50.0	49.5		ug/L		99	84 - 124	4	20
Methyl iodide	1.5	U	50.0	50.8		ug/L		102	77 - 125	4	20
Methylene Chloride	1.7	U	50.0	53.7		ug/L		107	80 - 120	4	20
4-Methyl-2-pentanone (MIBK)	0.33	U	50.0	63.9		ug/L		128	74 - 132	4	20
Methyl tert-butyl ether	0.40	U	50.0	59.1		ug/L		118	78 - 124	4	20
Naphthalene	0.85	U	50.0	62.6		ug/L		125	53 - 148	0	20
n-Butylbenzene	0.23	U	50.0	48.1		ug/L		96	81 - 125	4	20
N-Propylbenzene	0.30	U	50.0	49.5		ug/L		99	78 - 124	3	20
sec-Butylbenzene	0.31	U	50.0	48.0		ug/L		96	78 - 120	4	20
Styrene	0.35	U	50.0	53.1		ug/L		106	80 - 120	4	20
tert-Butylbenzene	0.31	U	50.0	52.2		ug/L		104	79 - 122	4	20
1,1,1,2-Tetrachloroethane	0.25	U	50.0	52.1		ug/L		104	80 - 120	2	20
1,1,2,2-Tetrachloroethane	0.43	U	50.0	55.8		ug/L		112	72 - 125	4	20
Tetrachloroethene	0.28	U	50.0	48.4		ug/L		97	80 - 120	5	20
Toluene	1.0	J	50.0	51.8		ug/L		101	80 - 120	3	20
trans-1,2-Dichloroethene	0.18	U	50.0	50.7		ug/L		101	80 - 120	4	20
trans-1,3-Dichloropropene	0.35	U	50.0	54.8		ug/L		110	77 - 122	0	20
1,2,3-Trichlorobenzene	0.65	U	50.0	57.2		ug/L		114	62 - 126	0	20
1,2,4-Trichlorobenzene	0.55	U	50.0	55.6		ug/L		111	78 - 124	2	20
1,1,1-Trichloroethane	0.29	U	50.0	53.8		ug/L		108	81 - 123	3	20
1,1,2-Trichloroethane	0.57	U	50.0	54.9		ug/L		110	76 - 119	0	20
Trichloroethene	0.29	U	50.0	52.8		ug/L		106	80 - 120	5	20
Trichlorofluoromethane	0.22	U	50.0	64.8	F	ug/L		130	79 - 128	7	20
1,2,3-Trichloropropane	0.56	U	50.0	57.5		ug/L		115	72 - 120	3	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-96898-13 MSD
Matrix: Water
Analysis Batch: 90507

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	0.40	U	50.0	50.8		ug/L		102	80 - 120	3	20
1,3,5-Trimethylbenzene	0.28	U	50.0	50.3		ug/L		101	80 - 122	4	20
Vinyl acetate	0.61	U	50.0	62.7		ug/L		125	47 - 150	5	20
Vinyl chloride	0.43	U	50.0	58.6		ug/L		117	75 - 118	4	20
Xylenes, Total	0.85	U	100	102		ug/L		102	80 - 120	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*75 - 123*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*78 - 127*
Toluene-d8 (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*116*		*80 - 120*

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

Lab Sample ID: MB 280-204860/1-A
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204860

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	130	U	320	130	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Acetophenone	19	U	320	19	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzyl alcohol	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzoic acid	320	U	1500	320	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Bis(2-chloroethoxy)methane	22	U	320	22	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
4-Chloroaniline	79	U	320	79	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2-Chlorophenol	20	U	320	20	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
4-Chloro-3-methylphenol	64	U	320	64	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,4-Dichlorophenol	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2-Chloronaphthalene	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,4-Dimethylphenol	64	U	320	64	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Dimethyl phthalate	22	U	320	22	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Acenaphthylene	16	U	320	16	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,6-Dinitrotoluene	27	U	320	27	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Acenaphthene	10	U	320	10	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,4-Dinitrophenol	320	U	1500	320	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
1,4-Dioxane	64	U	640	64	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Dibenzofuran	19	U	320	19	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,4-Dinitrotoluene	64	U	320	64	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Diethyl phthalate	25	U	640	25	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
4-Chlorophenyl phenyl ether	20	U	320	20	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Fluorene	17	U	320	17	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Hexachlorobutadiene	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Hexachlorocyclopentadiene	48	U	1500	48	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
1,2-Diphenyl-hydrazine	21	U	320	21	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Hexachloroethane	21	U	320	21	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Azobenzene	21	U	320	21	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Isophorone	16	U	320	16	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2-Methylnaphthalene	18	U	320	18	ug/Kg		12/11/13 18:54	12/16/13 13:34	1

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

Lab Sample ID: MB 280-204860/1-A
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204860

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	18	U	320	18	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
3 & 4 Methylphenol	32	U	320	32	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Hexachlorobenzene	28	U	320	28	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Naphthalene	30	U	320	30	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2-Nitroaniline	48	U	1500	48	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
3-Nitroaniline	71	U	1500	71	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Anthracene	16	U	320	16	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
4-Nitroaniline	70	U	1500	70	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Carbazole	35	U	320	35	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Di-n-butyl phthalate	28	U	320	28	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Nitrobenzene	21	U	320	21	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Fluoranthene	35	U	320	35	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2-Nitrophenol	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
4-Nitrophenol	94	U	1500	94	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Butyl benzyl phthalate	42	U	320	42	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
N-Nitrosodi-n-propylamine	30	U	320	30	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Bis(2-ethylhexyl) phthalate	45	U	320	45	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
n-Nitrosodiphenylamine(as diphenylamine)	20	U	320	20	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
3,3'-Dichlorobenzidine	87	U	640	87	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzo[a]anthracene	19	U	320	19	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Pentachlorobenzene	63	U	320	63	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Chrysene	26	U	320	26	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Pentachlorophenol	320	U	1500	320	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Di-n-octyl phthalate	14	U	320	14	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Phenanthrene	16	U	320	16	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzo[b]fluoranthene	25	U	320	25	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Phenol	17	U	320	17	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzo[k]fluoranthene	39	U	320	39	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzo[a]pyrene	19	U	320	19	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Dibenz(a,h)anthracene	18	U	320	18	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Pyrene	12	U	320	12	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Indeno[1,2,3-cd]pyrene	21	U	320	21	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
1,2,4,5-Tetrachlorobenzene	47	U	320	47	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzo[g,h,i]perylene	15	U	320	15	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Bis(2-chloroethyl)ether	16	U	320	16	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,2'-oxybis[1-chloropropane]	22	U	320	22	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,4,5-Trichlorophenol	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,4,6-Trichlorophenol	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Phthalic acid	740	U	2400	740	ug/Kg		12/11/13 18:54	12/16/13 13:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*50 - 120*	*12/11/13 18:54*	*12/16/13 13:34*	*1*
2-Fluorophenol	*83*		*53 - 120*	*12/11/13 18:54*	*12/16/13 13:34*	*1*
Nitrobenzene-d5	*85*		*50 - 120*	*12/11/13 18:54*	*12/16/13 13:34*	*1*
Phenol-d5	*84*		*52 - 120*	*12/11/13 18:54*	*12/16/13 13:34*	*1*
Terphenyl-d14	*91*		*55 - 120*	*12/11/13 18:54*	*12/16/13 13:34*	*1*
2,4,6-Tribromophenol	*78*		*51 - 120*	*12/11/13 18:54*	*12/16/13 13:34*	*1*

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

Lab Sample ID: LCS 280-204860/2-A
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204860

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	2610	732		ug/Kg		28	10 - 120
Benzyl alcohol	2610	2320		ug/Kg		89	51 - 120
Benzoic acid	2610	2280		ug/Kg		88	32 - 120
Bis(2-chloroethoxy)methane	2610	2280		ug/Kg		87	56 - 120
4-Chloroaniline	2610	928		ug/Kg		36	28 - 120
2-Chlorophenol	2610	2280		ug/Kg		88	57 - 120
4-Chloro-3-methylphenol	2610	2330		ug/Kg		90	63 - 120
2,4-Dichlorophenol	2610	2270		ug/Kg		87	60 - 120
2-Chloronaphthalene	2610	2280		ug/Kg		88	59 - 120
2,4-Dimethylphenol	2610	2130		ug/Kg		82	54 - 120
Dimethyl phthalate	2610	2500		ug/Kg		96	65 - 120
Acenaphthylene	2610	2400		ug/Kg		92	64 - 120
2,6-Dinitrotoluene	2610	2530		ug/Kg		97	64 - 120
Acenaphthene	2610	2350		ug/Kg		90	60 - 120
2,4-Dinitrophenol	5210	5070		ug/Kg		97	46 - 120
Dibenzofuran	2610	2350		ug/Kg		90	61 - 120
2,4-Dinitrotoluene	2610	2660		ug/Kg		102	68 - 120
Diethyl phthalate	2610	2510		ug/Kg		96	66 - 120
4-Chlorophenyl phenyl ether	2610	2410		ug/Kg		93	64 - 120
Fluorene	2610	2440		ug/Kg		93	64 - 120
Hexachlorobutadiene	2610	2180		ug/Kg		84	53 - 120
Hexachlorocyclopentadiene	2610	2230		ug/Kg		86	47 - 120
1,2-Diphenyl-hydrazine	2630	2440		ug/Kg		93	61 - 120
Hexachloroethane	2610	2160		ug/Kg		83	51 - 120
Isophorone	2610	2200		ug/Kg		84	56 - 120
2-Methylnaphthalene	2610	2280		ug/Kg		88	57 - 120
4-Bromophenyl phenyl ether	2610	2460		ug/Kg		95	64 - 120
3 & 4 Methylphenol	2610	2200		ug/Kg		85	53 - 120
Hexachlorobenzene	2610	2430		ug/Kg		93	62 - 120
Naphthalene	2610	2230		ug/Kg		86	57 - 120
2-Nitroaniline	2610	2470		ug/Kg		95	63 - 120
3-Nitroaniline	2610	1440	J	ug/Kg		55	47 - 120
Anthracene	2610	2420		ug/Kg		93	63 - 120
4-Nitroaniline	2610	2290		ug/Kg		88	64 - 120
Carbazole	2610	2470		ug/Kg		95	64 - 120
Di-n-butyl phthalate	2610	2580		ug/Kg		99	67 - 120
Nitrobenzene	2610	2250		ug/Kg		86	54 - 120
Fluoranthene	2610	2520		ug/Kg		97	66 - 120
2-Nitrophenol	2610	2400		ug/Kg		92	56 - 120
4-Nitrophenol	5210	5080		ug/Kg		98	63 - 121
Butyl benzyl phthalate	2610	2680		ug/Kg		103	65 - 120
N-Nitrosodi-n-propylamine	2610	2290		ug/Kg		88	51 - 120
Bis(2-ethylhexyl) phthalate	2610	2790		ug/Kg		107	65 - 120
n-Nitrosodiphenylamine(as diphenylamine)	2610	2250		ug/Kg		86	61 - 120
3,3'-Dichlorobenzidine	2610	1600		ug/Kg		61	30 - 120
Benzo[a]anthracene	2610	2490		ug/Kg		96	65 - 120
Chrysene	2610	2450		ug/Kg		94	64 - 120

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

Lab Sample ID: LCS 280-204860/2-A
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204860

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	5210	4880		ug/Kg		94	56 - 120
Di-n-octyl phthalate	2610	2680		ug/Kg		103	66 - 120
Phenanthrene	2610	2450		ug/Kg		94	64 - 120
Benzo[b]fluoranthene	2610	2620		ug/Kg		100	47 - 129
Phenol	2610	2250		ug/Kg		86	56 - 120
Benzo[k]fluoranthene	2610	2430		ug/Kg		93	48 - 130
Benzo[a]pyrene	2610	2540		ug/Kg		98	59 - 120
Dibenz(a,h)anthracene	2610	2740		ug/Kg		105	50 - 133
Pyrene	2610	2430		ug/Kg		93	64 - 120
Indeno[1,2,3-cd]pyrene	2610	2560		ug/Kg		98	63 - 120
Benzo[g,h,i]perylene	2610	2600		ug/Kg		100	55 - 126
Bis(2-chloroethyl)ether	2610	2350		ug/Kg		90	51 - 120
2,2'-oxybis[1-chloropropane]	2610	2250		ug/Kg		86	49 - 120
2,4,5-Trichlorophenol	2610	2350		ug/Kg		90	64 - 120
2,4,6-Trichlorophenol	2610	2450		ug/Kg		94	61 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*50 - 120*
2-Fluorophenol	*83*		*53 - 120*
Nitrobenzene-d5	*83*		*50 - 120*
Phenol-d5	*84*		*52 - 120*
Terphenyl-d14	*93*		*55 - 120*
2,4,6-Tribromophenol	*93*		*51 - 120*

Lab Sample ID: 680-96898-4 MS
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 204860

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	11	U	2780	2340		ug/Kg	☼	84	60 - 120
Acenaphthylene	18	U	2780	2380		ug/Kg	☼	86	64 - 120
Aniline	140	U	2780	1250		ug/Kg	☼	45	10 - 120
Anthracene	18	U	2780	2420		ug/Kg	☼	87	63 - 120
Benzo[a]anthracene	21	U	2780	2520		ug/Kg	☼	91	65 - 120
Benzo[a]pyrene	21	U	2780	2590		ug/Kg	☼	93	59 - 120
Benzo[b]fluoranthene	28	U	2780	2630		ug/Kg	☼	95	47 - 129
Benzo[g,h,i]perylene	17	U	2780	2660		ug/Kg	☼	96	55 - 126
Benzoic acid	350	U	2780	1050	J	ug/Kg	☼	38	32 - 120
Benzo[k]fluoranthene	42	U	2780	2450		ug/Kg	☼	88	48 - 130
Benzyl alcohol	11	U	2780	2350		ug/Kg	☼	85	51 - 120
Bis(2-chloroethoxy)methane	24	U	2780	2330		ug/Kg	☼	84	56 - 120
Bis(2-chloroethyl)ether	18	U	2780	2420		ug/Kg	☼	87	51 - 120
Bis(2-ethylhexyl) phthalate	49	U	2780	2890		ug/Kg	☼	104	65 - 120
4-Bromophenyl phenyl ether	20	U	2780	2410		ug/Kg	☼	87	64 - 120
Butyl benzyl phthalate	46	U	2780	2750		ug/Kg	☼	99	65 - 120
Carbazole	38	U	2780	2480		ug/Kg	☼	89	64 - 120
4-Chloroaniline	87	U	2780	1560		ug/Kg	☼	56	28 - 120
4-Chloro-3-methylphenol	70	U	2780	2340		ug/Kg	☼	84	63 - 120

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

Lab Sample ID: 680-96898-4 MS
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 204860

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	11	U	2780	2260		ug/Kg	☼	81	59 - 120
2-Chlorophenol	22	U	2780	2300		ug/Kg	☼	83	57 - 120
4-Chlorophenyl phenyl ether	22	U	2780	2340		ug/Kg	☼	84	64 - 120
Chrysene	29	U	2780	2500		ug/Kg	☼	90	64 - 120
Dibenz(a,h)anthracene	20	U	2780	2790		ug/Kg	☼	101	50 - 133
Dibenzofuran	21	U	2780	2320		ug/Kg	☼	84	61 - 120
3,3'-Dichlorobenzidine	95	U	2780	2470		ug/Kg	☼	89	30 - 120
2,4-Dichlorophenol	11	U	2780	2310		ug/Kg	☼	83	60 - 120
Diethyl phthalate	28	U	2780	2450		ug/Kg	☼	88	66 - 120
2,4-Dimethylphenol	70	U	2780	2190		ug/Kg	☼	79	54 - 120
Dimethyl phthalate	340	J	2780	2530		ug/Kg	☼	79	65 - 120
Di-n-butyl phthalate	31	U	2780	2550		ug/Kg	☼	92	67 - 120
2,4-Dinitrophenol	350	U	5550	3030		ug/Kg	☼	55	46 - 120
2,4-Dinitrotoluene	70	U	2780	2610		ug/Kg	☼	94	68 - 120
2,6-Dinitrotoluene	30	U	2780	2440		ug/Kg	☼	88	64 - 120
Di-n-octyl phthalate	15	U	2780	2840		ug/Kg	☼	102	66 - 120
1,2-Diphenyl-hydrazine	23	U	2810	2420		ug/Kg	☼	86	61 - 120
Fluoranthene	38	U	2780	2520		ug/Kg	☼	91	66 - 120
Fluorene	19	U	2780	2400		ug/Kg	☼	87	64 - 120
Hexachlorobenzene	31	U	2780	2430		ug/Kg	☼	88	62 - 120
Hexachlorobutadiene	11	U	2780	2260		ug/Kg	☼	81	53 - 120
Hexachlorocyclopentadiene	53	U	2780	2050		ug/Kg	☼	74	47 - 120
Hexachloroethane	23	U	2780	2200		ug/Kg	☼	79	51 - 120
Indeno[1,2,3-cd]pyrene	23	U	2780	2810		ug/Kg	☼	101	63 - 120
Isophorone	18	U	2780	2230		ug/Kg	☼	81	56 - 120
2-Methylnaphthalene	20	U	2780	2300		ug/Kg	☼	83	57 - 120
3 & 4 Methylphenol	35	U	2780	2250		ug/Kg	☼	81	53 - 120
Naphthalene	33	U	2780	2270		ug/Kg	☼	82	57 - 120
2-Nitroaniline	53	U	2780	2440		ug/Kg	☼	88	63 - 120
3-Nitroaniline	77	U	2780	1970		ug/Kg	☼	71	47 - 120
4-Nitroaniline	77	U	2780	2400		ug/Kg	☼	87	64 - 120
Nitrobenzene	23	U	2780	2330		ug/Kg	☼	84	54 - 120
2-Nitrophenol	11	U	2780	2460		ug/Kg	☼	89	56 - 120
4-Nitrophenol	100	U	5550	5020		ug/Kg	☼	90	63 - 121
N-Nitrosodi-n-propylamine	33	U	2780	2320		ug/Kg	☼	83	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	22	U	2780	2240		ug/Kg	☼	81	61 - 120
2,2'-oxybis[1-chloropropane]	24	U	2780	2360		ug/Kg	☼	85	49 - 120
Pentachlorophenol	350	U	5550	3900		ug/Kg	☼	70	56 - 120
Phenanthrene	18	U	2780	2420		ug/Kg	☼	87	64 - 120
Phenol	19	U	2780	2270		ug/Kg	☼	82	56 - 120
Pyrene	13	U	2780	2500		ug/Kg	☼	90	64 - 120
2,4,5-Trichlorophenol	11	U	2780	2310		ug/Kg	☼	83	64 - 120
2,4,6-Trichlorophenol	11	U	2780	2360		ug/Kg	☼	85	61 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*50 - 120*
2-Fluorophenol	*79*		*53 - 120*

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

Lab Sample ID: 680-96898-4 MS
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 204860

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5	*79*		*50 - 120*
Phenol-d5	*78*		*52 - 120*
Terphenyl-d14	*87*		*55 - 120*
2,4,6-Tribromophenol	*83*		*51 - 120*

Lab Sample ID: 680-96898-4 MSD
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 204860

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	11	U	2820	2430		ug/Kg	☼	86	60 - 120	4	30
Acenaphthylene	18	U	2820	2490		ug/Kg	☼	88	64 - 120	5	30
Aniline	140	U	2820	1170		ug/Kg	☼	42	10 - 120	6	30
Anthracene	18	U	2820	2500		ug/Kg	☼	88	63 - 120	3	30
Benzo[a]anthracene	21	U	2820	2590		ug/Kg	☼	92	65 - 120	2	30
Benzo[a]pyrene	21	U	2820	2620		ug/Kg	☼	93	59 - 120	1	30
Benzo[b]fluoranthene	28	U	2820	2630		ug/Kg	☼	93	47 - 129	0	44
Benzo[g,h,i]perylene	17	U	2820	2690		ug/Kg	☼	95	55 - 126	1	31
Benzoic acid	350	U	2820	1160	J	ug/Kg	☼	41	32 - 120	10	32
Benzo[k]fluoranthene	42	U	2820	2510		ug/Kg	☼	89	48 - 130	2	30
Benzyl alcohol	11	U	2820	2450		ug/Kg	☼	87	51 - 120	4	30
Bis(2-chloroethoxy)methane	24	U	2820	2440		ug/Kg	☼	87	56 - 120	5	30
Bis(2-chloroethyl)ether	18	U	2820	2500		ug/Kg	☼	88	51 - 120	3	30
Bis(2-ethylhexyl) phthalate	49	U	2820	2940		ug/Kg	☼	104	65 - 120	2	30
4-Bromophenyl phenyl ether	20	U	2820	2550		ug/Kg	☼	90	64 - 120	6	30
Butyl benzyl phthalate	46	U	2820	2770		ug/Kg	☼	98	65 - 120	1	30
Carbazole	38	U	2820	2610		ug/Kg	☼	93	64 - 120	5	30
4-Chloroaniline	87	U	2820	1530		ug/Kg	☼	54	28 - 120	2	30
4-Chloro-3-methylphenol	70	U	2820	2450		ug/Kg	☼	87	63 - 120	5	30
2-Chloronaphthalene	11	U	2820	2380		ug/Kg	☼	84	59 - 120	5	30
2-Chlorophenol	22	U	2820	2350		ug/Kg	☼	83	57 - 120	2	30
4-Chlorophenyl phenyl ether	22	U	2820	2440		ug/Kg	☼	87	64 - 120	4	30
Chrysene	29	U	2820	2560		ug/Kg	☼	91	64 - 120	2	35
Dibenz(a,h)anthracene	20	U	2820	2830		ug/Kg	☼	100	50 - 133	1	30
Dibenzofuran	21	U	2820	2430		ug/Kg	☼	86	61 - 120	4	30
3,3'-Dichlorobenzidine	95	U	2820	2420		ug/Kg	☼	86	30 - 120	2	30
2,4-Dichlorophenol	11	U	2820	2410		ug/Kg	☼	85	60 - 120	4	30
Diethyl phthalate	28	U	2820	2560		ug/Kg	☼	91	66 - 120	4	30
2,4-Dimethylphenol	70	U	2820	2280		ug/Kg	☼	81	54 - 120	4	30
Dimethyl phthalate	340	J	2820	2620		ug/Kg	☼	81	65 - 120	4	30
Di-n-butyl phthalate	31	U	2820	2680		ug/Kg	☼	95	67 - 120	5	30
2,4-Dinitrophenol	350	U	5640	3400		ug/Kg	☼	60	46 - 120	11	34
2,4-Dinitrotoluene	70	U	2820	2640		ug/Kg	☼	93	68 - 120	1	30
2,6-Dinitrotoluene	30	U	2820	2600		ug/Kg	☼	92	64 - 120	6	30
Di-n-octyl phthalate	15	U	2820	2890		ug/Kg	☼	103	66 - 120	2	30
1,2-Diphenyl-hydrazine	23	U	2850	2500		ug/Kg	☼	88	61 - 120	3	30
Fluoranthene	38	U	2820	2640		ug/Kg	☼	93	66 - 120	5	30
Fluorene	19	U	2820	2480		ug/Kg	☼	88	64 - 120	3	30

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

Lab Sample ID: 680-96898-4 MSD
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 204860

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobenzene	31	U	2820	2540		ug/Kg	☼	90	62 - 120	5	30
Hexachlorobutadiene	11	U	2820	2310		ug/Kg	☼	82	53 - 120	2	30
Hexachlorocyclopentadiene	53	U	2820	2020		ug/Kg	☼	72	47 - 120	1	30
Hexachloroethane	23	U	2820	2170		ug/Kg	☼	77	51 - 120	1	30
Indeno[1,2,3-cd]pyrene	23	U	2820	2840		ug/Kg	☼	101	63 - 120	1	30
Isophorone	18	U	2820	2310		ug/Kg	☼	82	56 - 120	3	30
2-Methylnaphthalene	20	U	2820	2390		ug/Kg	☼	85	57 - 120	4	30
3 & 4 Methylphenol	35	U	2820	2370		ug/Kg	☼	84	53 - 120	5	30
Naphthalene	33	U	2820	2330		ug/Kg	☼	83	57 - 120	2	30
2-Nitroaniline	53	U	2820	2590		ug/Kg	☼	92	63 - 120	6	30
3-Nitroaniline	77	U	2820	2040		ug/Kg	☼	73	47 - 120	4	30
4-Nitroaniline	77	U	2820	2480		ug/Kg	☼	88	64 - 120	3	30
Nitrobenzene	23	U	2820	2370		ug/Kg	☼	84	54 - 120	2	30
2-Nitrophenol	11	U	2820	2560		ug/Kg	☼	91	56 - 120	4	30
4-Nitrophenol	100	U	5640	5230		ug/Kg	☼	93	63 - 121	4	30
N-Nitrosodi-n-propylamine	33	U	2820	2350		ug/Kg	☼	83	51 - 120	2	30
n-Nitrosodiphenylamine(as diphenylamine)	22	U	2820	2320		ug/Kg	☼	82	61 - 120	4	36
2,2'-oxybis[1-chloropropane]	24	U	2820	2440		ug/Kg	☼	86	49 - 120	3	30
Pentachlorophenol	350	U	5640	4230		ug/Kg	☼	75	56 - 120	8	30
Phenanthrene	18	U	2820	2530		ug/Kg	☼	90	64 - 120	4	30
Phenol	19	U	2820	2380		ug/Kg	☼	85	56 - 120	5	30
Pyrene	13	U	2820	2540		ug/Kg	☼	90	64 - 120	2	38
2,4,5-Trichlorophenol	11	U	2820	2440		ug/Kg	☼	87	64 - 120	6	30
2,4,6-Trichlorophenol	11	U	2820	2520		ug/Kg	☼	89	61 - 120	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*50 - 120*
2-Fluorophenol	*81*		*53 - 120*
Nitrobenzene-d5	*82*		*50 - 120*
Phenol-d5	*81*		*52 - 120*
Terphenyl-d14	*90*		*55 - 120*
2,4,6-Tribromophenol	*86*		*51 - 120*

Lab Sample ID: MB 280-204881/1-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
Acetophenone	0.24	U	10	0.24	ug/L		12/11/13 18:50	12/17/13 14:10	1
Benzyl alcohol	0.23	U	10	0.23	ug/L		12/11/13 18:50	12/17/13 14:10	1
Benzoic acid	10	U	25	10	ug/L		12/11/13 18:50	12/17/13 14:10	1
Bis(2-chloroethoxy)methane	0.97	U	10	0.97	ug/L		12/11/13 18:50	12/17/13 14:10	1
4-Chloroaniline	2.1	U	10	2.1	ug/L		12/11/13 18:50	12/17/13 14:10	1
2-Chlorophenol	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
4-Chloro-3-methylphenol	2.4	U	10	2.4	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,4-Dichlorophenol	0.64	U	10	0.64	ug/L		12/11/13 18:50	12/17/13 14:10	1

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

Lab Sample ID: MB 280-204881/1-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	0.26	U	4.0	0.26	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,4-Dimethylphenol	0.58	U	10	0.58	ug/L		12/11/13 18:50	12/17/13 14:10	1
Dimethyl phthalate	0.21	U	4.0	0.21	ug/L		12/11/13 18:50	12/17/13 14:10	1
Acenaphthylene	0.49	U	4.0	0.49	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,6-Dinitrotoluene	1.9	U	10	1.9	ug/L		12/11/13 18:50	12/17/13 14:10	1
Acenaphthene	0.28	U	4.0	0.28	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,4-Dinitrophenol	10	U	30	10	ug/L		12/11/13 18:50	12/17/13 14:10	1
1,4-Dioxane	1.7	U	20	1.7	ug/L		12/11/13 18:50	12/17/13 14:10	1
Dibenzofuran	0.29	U	4.0	0.29	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,4-Dinitrotoluene	1.7	U	10	1.7	ug/L		12/11/13 18:50	12/17/13 14:10	1
Diethyl phthalate	0.38	U	4.0	0.38	ug/L		12/11/13 18:50	12/17/13 14:10	1
4-Chlorophenyl phenyl ether	1.7	U	10	1.7	ug/L		12/11/13 18:50	12/17/13 14:10	1
Fluorene	0.31	U	4.0	0.31	ug/L		12/11/13 18:50	12/17/13 14:10	1
Hexachlorobutadiene	3.3	U	10	3.3	ug/L		12/11/13 18:50	12/17/13 14:10	1
Hexachlorocyclopentadiene	10	U	50	10	ug/L		12/11/13 18:50	12/17/13 14:10	1
1,2-Diphenyl-hydrazine	0.23	U	10	0.23	ug/L		12/11/13 18:50	12/17/13 14:10	1
Hexachloroethane	2.1	U	10	2.1	ug/L		12/11/13 18:50	12/17/13 14:10	1
Azobenzene	0.23	U	4.0	0.23	ug/L		12/11/13 18:50	12/17/13 14:10	1
Isophorone	0.21	U	10	0.21	ug/L		12/11/13 18:50	12/17/13 14:10	1
2-Methylnaphthalene	0.29	U	4.0	0.29	ug/L		12/11/13 18:50	12/17/13 14:10	1
4-Bromophenyl phenyl ether	0.43	U	10	0.43	ug/L		12/11/13 18:50	12/17/13 14:10	1
3 & 4 Methylphenol	0.25	U	10	0.25	ug/L		12/11/13 18:50	12/17/13 14:10	1
Hexachlorobenzene	0.66	U	10	0.66	ug/L		12/11/13 18:50	12/17/13 14:10	1
Naphthalene	0.29	U	4.0	0.29	ug/L		12/11/13 18:50	12/17/13 14:10	1
2-Nitroaniline	1.7	U	10	1.7	ug/L		12/11/13 18:50	12/17/13 14:10	1
3-Nitroaniline	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
Anthracene	0.42	U	4.0	0.42	ug/L		12/11/13 18:50	12/17/13 14:10	1
4-Nitroaniline	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
Carbazole	0.43	U	4.0	0.43	ug/L		12/11/13 18:50	12/17/13 14:10	1
Di-n-butyl phthalate	1.2	U	4.0	1.2	ug/L		12/11/13 18:50	12/17/13 14:10	1
Nitrobenzene	0.81	U	10	0.81	ug/L		12/11/13 18:50	12/17/13 14:10	1
Fluoranthene	0.20	U	4.0	0.20	ug/L		12/11/13 18:50	12/17/13 14:10	1
2-Nitrophenol	0.39	U	10	0.39	ug/L		12/11/13 18:50	12/17/13 14:10	1
4-Nitrophenol	1.2	U	10	1.2	ug/L		12/11/13 18:50	12/17/13 14:10	1
Butyl benzyl phthalate	1.0	U	4.0	1.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
N-Nitrosodi-n-propylamine	0.35	U	10	0.35	ug/L		12/11/13 18:50	12/17/13 14:10	1
Bis(2-ethylhexyl) phthalate	0.56	U	10	0.56	ug/L		12/11/13 18:50	12/17/13 14:10	1
n-Nitrosodiphenylamine(as diphenylamine)	0.44	U	10	0.44	ug/L		12/11/13 18:50	12/17/13 14:10	1
3,3'-Dichlorobenzidine	2.0	U	50	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
Benzo[a]anthracene	0.35	U	4.0	0.35	ug/L		12/11/13 18:50	12/17/13 14:10	1
Pentachlorobenzene	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
Chrysene	0.54	U	4.0	0.54	ug/L		12/11/13 18:50	12/17/13 14:10	1
Pentachlorophenol	20	U	50	20	ug/L		12/11/13 18:50	12/17/13 14:10	1
Di-n-octyl phthalate	0.35	U	4.0	0.35	ug/L		12/11/13 18:50	12/17/13 14:10	1
Phenanthrene	0.26	U	4.0	0.26	ug/L		12/11/13 18:50	12/17/13 14:10	1
Benzo[b]fluoranthene	0.53	U	4.0	0.53	ug/L		12/11/13 18:50	12/17/13 14:10	1
Phenol	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1

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

Lab Sample ID: MB 280-204881/1-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	0.46	U	4.0	0.46	ug/L		12/11/13 18:50	12/17/13 14:10	1
Benzo[a]pyrene	0.31	U	4.0	0.31	ug/L		12/11/13 18:50	12/17/13 14:10	1
Dibenz(a,h)anthracene	0.51	U	4.0	0.51	ug/L		12/11/13 18:50	12/17/13 14:10	1
Pyrene	0.37	U	10	0.37	ug/L		12/11/13 18:50	12/17/13 14:10	1
Indeno[1,2,3-cd]pyrene	0.65	U	4.0	0.65	ug/L		12/11/13 18:50	12/17/13 14:10	1
1,2,4,5-Tetrachlorobenzene	1.7	U	10	1.7	ug/L		12/11/13 18:50	12/17/13 14:10	1
Benzo[g,h,i]perylene	0.50	U	4.0	0.50	ug/L		12/11/13 18:50	12/17/13 14:10	1
Bis(2-chloroethyl)ether	0.41	U	10	0.41	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,2'-oxybis[1-chloropropane]	0.28	U	10	0.28	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,4,5-Trichlorophenol	0.45	U	10	0.45	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,4,6-Trichlorophenol	0.29	U	10	0.29	ug/L		12/11/13 18:50	12/17/13 14:10	1
Phthalic acid	5.8	U	400	5.8	ug/L		12/11/13 18:50	12/17/13 14:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*48 - 104*	*12/11/13 18:50*	*12/17/13 14:10*	*1*
2-Fluorophenol	*82*		*41 - 117*	*12/11/13 18:50*	*12/17/13 14:10*	*1*
Nitrobenzene-d5	*89*		*52 - 113*	*12/11/13 18:50*	*12/17/13 14:10*	*1*
Phenol-d5	*84*		*46 - 120*	*12/11/13 18:50*	*12/17/13 14:10*	*1*
Terphenyl-d14	*100*		*41 - 138*	*12/11/13 18:50*	*12/17/13 14:10*	*1*
2,4,6-Tribromophenol	*84*		*48 - 126*	*12/11/13 18:50*	*12/17/13 14:10*	*1*

Lab Sample ID: LCS 280-204881/2-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	80.0	39.3		ug/L		49	40 - 120
Benzyl alcohol	80.0	66.2		ug/L		83	58 - 120
Benzoic acid	80.0	34.7		ug/L		43	41 - 120
Bis(2-chloroethoxy)methane	80.0	68.5		ug/L		86	64 - 120
4-Chloroaniline	80.0	48.4		ug/L		61	53 - 120
2-Chlorophenol	80.0	66.8		ug/L		83	58 - 120
4-Chloro-3-methylphenol	80.0	72.8		ug/L		91	69 - 120
2,4-Dichlorophenol	80.0	70.0		ug/L		87	62 - 120
2-Chloronaphthalene	80.0	68.2		ug/L		85	51 - 120
2,4-Dimethylphenol	80.0	55.0		ug/L		69	44 - 120
Dimethyl phthalate	80.0	75.0		ug/L		94	73 - 120
Acenaphthylene	80.0	68.2		ug/L		85	63 - 120
2,6-Dinitrotoluene	80.0	77.7		ug/L		97	73 - 120
Acenaphthene	80.0	70.9		ug/L		89	61 - 120
2,4-Dinitrophenol	160	136		ug/L		85	50 - 123
Dibenzofuran	80.0	72.1		ug/L		90	64 - 120
2,4-Dinitrotoluene	80.0	78.3		ug/L		98	76 - 120
Diethyl phthalate	80.0	76.3		ug/L		95	73 - 120
4-Chlorophenyl phenyl ether	80.0	73.9		ug/L		92	67 - 120
Fluorene	80.0	74.3		ug/L		93	68 - 120
Hexachlorobutadiene	80.0	57.8		ug/L		72	24 - 120
Hexachlorocyclopentadiene	80.0	13.4	J	ug/L		17	10 - 120

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

Lab Sample ID: LCS 280-204881/2-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenyl-hydrazine	80.9	71.4		ug/L		88	65 - 120
Hexachloroethane	80.0	51.4		ug/L		64	21 - 120
Isophorone	80.0	65.6		ug/L		82	65 - 120
2-Methylnaphthalene	80.0	68.4		ug/L		86	42 - 120
4-Bromophenyl phenyl ether	80.0	74.7		ug/L		93	69 - 120
3 & 4 Methylphenol	80.0	67.6		ug/L		84	58 - 120
Hexachlorobenzene	80.0	76.2		ug/L		95	69 - 120
Naphthalene	80.0	66.7		ug/L		83	39 - 120
2-Nitroaniline	80.0	74.7		ug/L		93	70 - 120
3-Nitroaniline	80.0	54.9		ug/L		69	62 - 126
Anthracene	80.0	71.7		ug/L		90	71 - 120
4-Nitroaniline	80.0	67.9		ug/L		85	70 - 120
Carbazole	80.0	75.8		ug/L		95	72 - 120
Di-n-butyl phthalate	80.0	75.3		ug/L		94	75 - 120
Nitrobenzene	80.0	69.9		ug/L		87	59 - 120
Fluoranthene	80.0	77.4		ug/L		97	73 - 120
2-Nitrophenol	80.0	72.2		ug/L		90	59 - 120
4-Nitrophenol	160	142		ug/L		89	59 - 129
Butyl benzyl phthalate	80.0	69.7		ug/L		87	71 - 120
N-Nitrosodi-n-propylamine	80.0	68.7		ug/L		86	58 - 120
Bis(2-ethylhexyl) phthalate	80.0	72.8		ug/L		91	62 - 133
n-Nitrosodiphenylamine(as diphenylamine)	80.0	68.8		ug/L		86	66 - 120
3,3'-Dichlorobenzidine	80.0	42.7	J	ug/L		53	10 - 120
Benzo[a]anthracene	80.0	72.1		ug/L		90	71 - 120
Chrysene	80.0	71.6		ug/L		89	69 - 120
Pentachlorophenol	160	136		ug/L		85	57 - 120
Di-n-octyl phthalate	80.0	74.1		ug/L		93	71 - 120
Phenanthrene	80.0	74.6		ug/L		93	71 - 120
Benzo[b]fluoranthene	80.0	76.0		ug/L		95	65 - 120
Phenol	80.0	66.9		ug/L		84	61 - 120
Benzo[k]fluoranthene	80.0	73.2		ug/L		91	66 - 120
Benzo[a]pyrene	80.0	71.8		ug/L		90	63 - 120
Dibenz(a,h)anthracene	80.0	74.7		ug/L		93	63 - 120
Pyrene	80.0	70.6		ug/L		88	71 - 120
Indeno[1,2,3-cd]pyrene	80.0	71.9		ug/L		90	63 - 120
Benzo[g,h,i]perylene	80.0	70.6		ug/L		88	69 - 120
Bis(2-chloroethyl)ether	80.0	68.1		ug/L		85	60 - 120
2,2'-oxybis[1-chloropropane]	80.0	64.2		ug/L		80	49 - 120
2,4,5-Trichlorophenol	80.0	71.4		ug/L		89	64 - 120
2,4,6-Trichlorophenol	80.0	71.3		ug/L		89	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*89*		*48 - 104*
2-Fluorophenol	*78*		*41 - 117*
Nitrobenzene-d5	*85*		*52 - 113*
Phenol-d5	*83*		*46 - 120*
Terphenyl-d14	*95*		*41 - 138*

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

Lab Sample ID: LCS 280-204881/2-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204881

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	*99*		*48 - 126*

Lab Sample ID: LCSD 280-204881/3-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 204881

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline			80.0	40.1		ug/L		50	40 - 120	2	30
Benzyl alcohol			80.0	68.8		ug/L		86	58 - 120	4	30
Benzoic acid			80.0	39.7		ug/L		50	41 - 120	14	72
Bis(2-chloroethoxy)methane			80.0	70.4		ug/L		88	64 - 120	3	30
4-Chloroaniline			80.0	47.6		ug/L		60	53 - 120	2	54
2-Chlorophenol			80.0	70.9		ug/L		89	58 - 120	6	30
4-Chloro-3-methylphenol			80.0	74.0		ug/L		93	69 - 120	2	30
2,4-Dichlorophenol			80.0	70.3		ug/L		88	62 - 120	1	30
2-Chloronaphthalene			80.0	68.4		ug/L		85	51 - 120	0	30
2,4-Dimethylphenol			80.0	58.3		ug/L		73	44 - 120	6	30
Dimethyl phthalate			80.0	76.5		ug/L		96	73 - 120	2	30
Acenaphthylene			80.0	68.5		ug/L		86	63 - 120	0	30
2,6-Dinitrotoluene			80.0	77.2		ug/L		96	73 - 120	1	30
Acenaphthene			80.0	72.2		ug/L		90	61 - 120	2	30
2,4-Dinitrophenol			160	141		ug/L		88	50 - 123	4	49
Dibenzofuran			80.0	72.1		ug/L		90	64 - 120	0	30
2,4-Dinitrotoluene			80.0	79.4		ug/L		99	76 - 120	1	32
Diethyl phthalate			80.0	79.1		ug/L		99	73 - 120	4	30
4-Chlorophenyl phenyl ether			80.0	73.8		ug/L		92	67 - 120	0	30
Fluorene			80.0	74.2		ug/L		93	68 - 120	0	30
Hexachlorobutadiene			80.0	56.2		ug/L		70	24 - 120	3	47
Hexachlorocyclopentadiene			80.0	10	U	ug/L		12	10 - 120	32	72
1,2-Diphenyl-hydrazine			80.9	72.8		ug/L		90	65 - 120	2	30
Hexachloroethane			80.0	55.2		ug/L		69	21 - 120	7	57
Isophorone			80.0	66.6		ug/L		83	65 - 120	2	30
2-Methylnaphthalene			80.0	67.9		ug/L		85	42 - 120	1	32
4-Bromophenyl phenyl ether			80.0	77.4		ug/L		97	69 - 120	4	31
3 & 4 Methylphenol			80.0	71.3		ug/L		89	58 - 120	5	30
Hexachlorobenzene			80.0	76.4		ug/L		96	69 - 120	0	30
Naphthalene			80.0	66.5		ug/L		83	39 - 120	0	34
2-Nitroaniline			80.0	75.1		ug/L		94	70 - 120	0	30
3-Nitroaniline			80.0	56.0		ug/L		70	62 - 126	2	35
Anthracene			80.0	72.2		ug/L		90	71 - 120	1	30
4-Nitroaniline			80.0	69.6		ug/L		87	70 - 120	3	34
Carbazole			80.0	75.7		ug/L		95	72 - 120	0	30
Di-n-butyl phthalate			80.0	76.5		ug/L		96	75 - 120	2	30
Nitrobenzene			80.0	69.6		ug/L		87	59 - 120	0	30
Fluoranthene			80.0	78.6		ug/L		98	73 - 120	2	34
2-Nitrophenol			80.0	74.1		ug/L		93	59 - 120	3	30
4-Nitrophenol			160	143		ug/L		89	59 - 129	1	35
Butyl benzyl phthalate			80.0	72.8		ug/L		91	71 - 120	4	30

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

Lab Sample ID: LCSD 280-204881/3-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 204881

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodi-n-propylamine			80.0	74.3		ug/L		93	58 - 120	8	30
Bis(2-ethylhexyl) phthalate			80.0	75.3		ug/L		94	62 - 133	3	30
n-Nitrosodiphenylamine(as diphenylamine)			80.0	68.1		ug/L		85	66 - 120	1	37
3,3'-Dichlorobenzidine			80.0	40.5	J	ug/L		51	10 - 120	5	30
Benzo[a]anthracene			80.0	74.0		ug/L		93	71 - 120	3	30
Chrysene			80.0	72.6		ug/L		91	69 - 120	1	30
Pentachlorophenol			160	141		ug/L		88	57 - 120	3	33
Di-n-octyl phthalate			80.0	76.9		ug/L		96	71 - 120	4	30
Phenanthrene			80.0	75.6		ug/L		94	71 - 120	1	30
Benzo[b]fluoranthene			80.0	76.5		ug/L		96	65 - 120	1	38
Phenol			80.0	69.1		ug/L		86	61 - 120	3	42
Benzo[k]fluoranthene			80.0	77.4		ug/L		97	66 - 120	6	37
Benzo[a]pyrene			80.0	72.3		ug/L		90	63 - 120	1	30
Dibenz(a,h)anthracene			80.0	74.3		ug/L		93	63 - 120	1	30
Pyrene			80.0	72.7		ug/L		91	71 - 120	3	30
Indeno[1,2,3-cd]pyrene			80.0	71.4		ug/L		89	63 - 120	1	30
Benzo[g,h,i]perylene			80.0	71.9		ug/L		90	69 - 120	2	30
Bis(2-chloroethyl)ether			80.0	69.8		ug/L		87	60 - 120	2	34
2,2'-oxybis[1-chloropropane]			80.0	67.8		ug/L		85	49 - 120	5	30
2,4,5-Trichlorophenol			80.0	72.9		ug/L		91	64 - 120	2	30
2,4,6-Trichlorophenol			80.0	73.3		ug/L		92	62 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*91*		*48 - 104*
2-Fluorophenol	*83*		*41 - 117*
Nitrobenzene-d5	*86*		*52 - 113*
Phenol-d5	*86*		*46 - 120*
Terphenyl-d14	*97*		*41 - 138*
2,4,6-Tribromophenol	*95*		*48 - 126*

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

Lab Sample ID: MB 160-92812/1-A
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Acenaphthylene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Anthracene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[a]anthracene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[b]fluoranthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[k]fluoranthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[g,h,i]perylene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[a]pyrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Chrysene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Dibenz(a,h)anthracene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1

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

Lab Sample ID: MB 160-92812/1-A
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Fluorene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Indeno[1,2,3-cd]pyrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Naphthalene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Phenanthrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Pyrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*86*		*53 - 97*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*46 - 111*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
Nitrobenzene-d5 (Surr)	*78*		*55 - 98*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
Phenol-d5 (Surr)	*82*		*54 - 101*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
Terphenyl-d14 (Surr)	*78*		*58 - 123*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
2-Fluorobiphenyl (Surr)	*78*		*56 - 97*	*12/18/13 11:29*	*12/18/13 20:31*	*1*

Lab Sample ID: LCS 160-92812/2-A
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	3330	2730		ug/Kg		82	63 - 95
Acenaphthylene	3330	2820		ug/Kg		85	62 - 98
Anthracene	3330	2750		ug/Kg		83	63 - 100
Benzo[a]anthracene	3330	2970		ug/Kg		89	74 - 114
Benzo[b]fluoranthene	3330	2940		ug/Kg		88	68 - 109
Benzo[k]fluoranthene	3330	2800		ug/Kg		84	69 - 111
Benzo[g,h,i]perylene	3330	2820		ug/Kg		84	67 - 121
Benzo[a]pyrene	3330	2930		ug/Kg		88	63 - 103
Chrysene	3330	2750		ug/Kg		83	66 - 100
Dibenz(a,h)anthracene	3330	2880		ug/Kg		86	67 - 114
Fluoranthene	3330	2840		ug/Kg		85	63 - 101
Fluorene	3330	2700		ug/Kg		81	62 - 96
Indeno[1,2,3-cd]pyrene	3330	2870		ug/Kg		86	65 - 120
Naphthalene	3330	2540		ug/Kg		76	60 - 90
Phenanthrene	3330	2760		ug/Kg		83	63 - 99
Pyrene	3330	2890		ug/Kg		87	64 - 102

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*82*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*80*		*46 - 111*
Nitrobenzene-d5 (Surr)	*76*		*55 - 98*
Phenol-d5 (Surr)	*80*		*54 - 101*
Terphenyl-d14 (Surr)	*77*		*58 - 123*
2-Fluorobiphenyl (Surr)	*78*		*56 - 97*

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

Lab Sample ID: 680-96898-11 MS
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: P-B-12_SHALLOW
Prep Type: Total/NA
Prep Batch: 92812

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	35	U	3490	2540		ug/Kg	☼	73	57 - 94
Acenaphthylene	35	U	3490	2560		ug/Kg	☼	74	57 - 97
Anthracene	35	U	3490	2620		ug/Kg	☼	75	58 - 99
Benzo[a]anthracene	87	J	3490	2860		ug/Kg	☼	79	68 - 114
Benzo[b]fluoranthene	110	J	3490	2680		ug/Kg	☼	74	63 - 107
Benzo[k]fluoranthene	38	J	3490	2510		ug/Kg	☼	71	65 - 108
Benzo[g,h,i]perylene	58	J	3490	2780		ug/Kg	☼	78	54 - 127
Benzo[a]pyrene	60	J	3490	2650		ug/Kg	☼	74	61 - 102
Chrysene	110	J	3490	2650		ug/Kg	☼	73	61 - 100
Dibenz(a,h)anthracene	35	U	3490	3000		ug/Kg	☼	86	59 - 118
Fluoranthene	160	J	3490	2750		ug/Kg	☼	74	58 - 103
Fluorene	35	U	3490	2570		ug/Kg	☼	74	58 - 97
Indeno[1,2,3-cd]pyrene	55	J	3490	2860		ug/Kg	☼	80	56 - 123
Naphthalene	35	U	3490	2180		ug/Kg	☼	63	52 - 86
Phenanthrene	35	U	3490	2640		ug/Kg	☼	76	60 - 98
Pyrene	130	J	3490	2680		ug/Kg	☼	73	53 - 106

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*74*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*77*		*46 - 111*
Nitrobenzene-d5 (Surr)	*67*		*55 - 98*
Phenol-d5 (Surr)	*69*		*54 - 101*
Terphenyl-d14 (Surr)	*69*		*58 - 123*
2-Fluorobiphenyl (Surr)	*70*		*56 - 97*

Lab Sample ID: 680-96898-11 MSD
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: P-B-12_SHALLOW
Prep Type: Total/NA
Prep Batch: 92812

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	35	U	3490	2590		ug/Kg	☼	74	57 - 94	2	30
Acenaphthylene	35	U	3490	2650		ug/Kg	☼	76	57 - 97	3	30
Anthracene	35	U	3490	2590		ug/Kg	☼	74	58 - 99	1	30
Benzo[a]anthracene	87	J	3490	2800		ug/Kg	☼	78	68 - 114	2	30
Benzo[b]fluoranthene	110	J	3490	2540		ug/Kg	☼	70	63 - 107	5	30
Benzo[k]fluoranthene	38	J	3490	2510		ug/Kg	☼	71	65 - 108	0	30
Benzo[g,h,i]perylene	58	J	3490	2740		ug/Kg	☼	77	54 - 127	1	30
Benzo[a]pyrene	60	J	3490	2620		ug/Kg	☼	73	61 - 102	1	30
Chrysene	110	J	3490	2590		ug/Kg	☼	71	61 - 100	2	30
Dibenz(a,h)anthracene	35	U	3490	2930		ug/Kg	☼	84	59 - 118	2	30
Fluoranthene	160	J	3490	2690		ug/Kg	☼	73	58 - 103	2	30
Fluorene	35	U	3490	2590		ug/Kg	☼	74	58 - 97	1	30
Indeno[1,2,3-cd]pyrene	55	J	3490	2880		ug/Kg	☼	81	56 - 123	1	30
Naphthalene	35	U	3490	2370		ug/Kg	☼	68	52 - 86	9	30
Phenanthrene	35	U	3490	2630		ug/Kg	☼	75	60 - 98	0	30
Pyrene	130	J	3490	2620		ug/Kg	☼	71	53 - 106	2	30

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

Lab Sample ID: 680-96898-11 MSD
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: P-B-12_SHALLOW
Prep Type: Total/NA
Prep Batch: 92812

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol (Surr)	*73*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*73*		*46 - 111*
Nitrobenzene-d5 (Surr)	*67*		*55 - 98*
Phenol-d5 (Surr)	*69*		*54 - 101*
Terphenyl-d14 (Surr)	*70*		*58 - 123*
2-Fluorobiphenyl (Surr)	*71*		*56 - 97*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.60	U	200	0.60	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-2	0.62	U	200	0.62	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-3	0.65	U	200	0.65	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-4	26	U	200	26	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-5	22	U	200	22	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-6	22	U	200	22	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-7	21	U	200	21	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-8	22	U	200	22	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-9	24	U	200	24	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-10	18	U	200	18	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-11	23	U	200	23	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-12/13	23	U	400	23	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-14	19	U	200	19	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-15	25	U	200	25	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-16	3.8	U	200	3.8	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-17	2.7	U	200	2.7	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-18/30	2.3	U	400	2.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-19	3.0	U	200	3.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-20/28	3.44	J	400	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-21/33	1.3	U	400	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-22	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-23	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-24	2.0	U	200	2.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-25	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-26/29	1.3	U	400	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-27	2.0	U	200	2.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-31	3.25	J	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-32	1.6	U	200	1.6	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-34	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-35	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-36	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-37	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-38	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-39	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-40/71	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-41	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-42	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-43	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-44/47/65	6.47	J	600	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-45	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-46	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-48	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-49/69	2.79	J	400	0.96	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-50/53	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-51	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-52	8.37	J	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-54	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-55	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-56	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-57	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-58	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-59/62/75	0.84	U	600	0.84	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-60	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-61/70/74/76	1.1	U	800	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-63	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-64	0.79	U	200	0.79	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-66	2.63	J q	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-67	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-68	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-72	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-73	0.90	U	200	0.90	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-77	1.6	U	20	1.6	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-78	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-79	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-80	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-81	1.5	U	20	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-82	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-83	1.6	U	200	1.6	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-84	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-85/116/117	0.98	U	600	0.98	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-86/87/97/108/119/125	1.0	U	1200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-88/91	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-89	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-90/101/113	3.38	J q	600	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-92	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-93/100	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-107/124	0.93	U	400	0.93	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-94	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-95	3.67	J q	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-96	0.52	U	200	0.52	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-98/102	1.0	U	400	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-99	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-103	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-104	0.49	U	200	0.49	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-105	1.1	U	20	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-106	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-110/115	4.25	J q	400	0.90	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-109	0.86	U	200	0.86	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-111	0.82	U	200	0.82	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-112	0.79	U	200	0.79	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-114	1.0	U	20	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-115	4.25	J q	400	0.90	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-118	3.82	J	20	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-120	0.87	U	200	0.87	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-121	0.82	U	200	0.82	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-122	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-123	0.99	U	20	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-126	1.3	U	20	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-127	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-128/166	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-129/138/163	2.65	J q	600	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-130	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-131	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-132	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-133	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-134/143	1.3	U	400	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-135/151	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-136	0.83	U	200	0.83	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-137	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-139/140	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-141	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-142	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-144	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-145	0.80	U	200	0.80	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-146	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-147/149	2.64	J	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-148	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-150	0.75	U	200	0.75	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-152	0.76	U	200	0.76	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-153/168	1.43	J q	400	0.93	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-154	0.99	U	200	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-155	0.74	U	200	0.74	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-156/157	1.2	U	40	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-158	0.85	U	200	0.85	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-159	0.93	U	200	0.93	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-160	0.98	U	200	0.98	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-161	0.86	U	200	0.86	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-162	0.90	U	200	0.90	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-164	0.95	U	200	0.95	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-165	0.99	U	200	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-167	0.84	U	20	0.84	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-169	1.3	U	20	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-170	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-171/173	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-172	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-174	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-175	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-176	0.76	U	200	0.76	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-177	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-178	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-179	0.82	U	200	0.82	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-180/193	0.89	U	400	0.89	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-181	0.91	U	200	0.91	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-182	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-183	0.82	U	200	0.82	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-184	0.84	U	200	0.84	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-185	0.99	U	200	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-186	0.80	U	200	0.80	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-187	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-188	0.75	U	200	0.75	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-189	1.8	U	20	1.8	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-190	0.83	U	200	0.83	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-191	0.80	U	200	0.80	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-192	0.83	U	200	0.83	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-194	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-195	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-196	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-197	0.76	U	200	0.76	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-198/199	1.2	U	400	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-200	0.77	U	200	0.77	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-201	0.76	U	200	0.76	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-202	0.79	U	200	0.79	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-203	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-204	0.80	U	200	0.80	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-205	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-206	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-207	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-208	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-209	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*71*		*5 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-15L	*80*		*5 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-123L	*81*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-114L	*80*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-3L	*66*		*5 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-118L	*81*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-126L	*78*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-202L	102		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-169L	73		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-206L	81		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-37L	75		5 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-19L	80		5 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-188L	96		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-54L	71		5 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-156L/157L	79		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-167L	80		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-209L	75		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-189L	82		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-105L	81		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-208L	95		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-1L	60		5 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-104L	71		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-81L	77		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-77L	79		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-205L	84		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-155L	72		10 - 145	12/17/13 10:53	01/14/14 16:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	76		5 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-111L	83		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-178L	88		10 - 145	12/17/13 10:53	01/14/14 16:21	1

Lab Sample ID: LCS 320-32034/2-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	2000	1980		pg/L		99	60 - 135
PCB-3	2000	2020		pg/L		101	60 - 135
PCB-4	2000	2050		pg/L		103	60 - 135
PCB-15	2000	1970		pg/L		99	60 - 135
PCB-19	2000	2030		pg/L		102	60 - 135
PCB-37	2000	2040		pg/L		102	60 - 135
PCB-54	2000	2030		pg/L		102	60 - 135
PCB-77	2000	2000		pg/L		100	60 - 135
PCB-81	2000	2020		pg/L		101	60 - 135
PCB-104	2000	2070		pg/L		103	60 - 135
PCB-105	2000	2100		pg/L		105	60 - 135
PCB-114	2000	2040		pg/L		102	60 - 135
PCB-118	2000	2090		pg/L		105	60 - 135
PCB-123	2000	2020		pg/L		101	60 - 135
PCB-126	2000	2080		pg/L		104	60 - 135
PCB-155	2000	2080		pg/L		104	60 - 135
PCB-156/157	4000	4050		pg/L		101	60 - 135
PCB-167	2000	2010		pg/L		100	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32034/2-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-169	2000	2080		pg/L		104	60 - 135
PCB-188	2000	2080		pg/L		104	60 - 135
PCB-189	2000	2140		pg/L		107	60 - 135
PCB-202	2000	2130		pg/L		107	60 - 135
PCB-205	2000	1990		pg/L		99	60 - 135
PCB-206	2000	2050		pg/L		102	60 - 135
PCB-208	2000	2020		pg/L		101	60 - 135
PCB-209	2000	2000		pg/L		100	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*59*		*15 - 145*
PCB-15L	*71*		*15 - 145*
PCB-123L	*79*		*40 - 145*
PCB-114L	*78*		*40 - 145*
PCB-3L	*57*		*15 - 145*
PCB-118L	*79*		*40 - 145*
PCB-126L	*76*		*40 - 145*
PCB-202L	*99*		*40 - 145*
PCB-169L	*71*		*40 - 145*
PCB-206L	*79*		*40 - 145*
PCB-37L	*69*		*15 - 145*
PCB-19L	*67*		*15 - 145*
PCB-188L	*95*		*40 - 145*
PCB-54L	*63*		*15 - 145*
PCB-156L/157L	*77*		*40 - 145*
PCB-167L	*77*		*40 - 145*
PCB-209L	*73*		*40 - 145*
PCB-189L	*79*		*40 - 145*
PCB-105L	*78*		*40 - 145*
PCB-208L	*92*		*40 - 145*
PCB-1L	*49*		*15 - 145*
PCB-104L	*66*		*40 - 145*
PCB-81L	*76*		*40 - 145*
PCB-77L	*75*		*40 - 145*
PCB-205L	*82*		*40 - 145*
PCB-155L	*71*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*73*		*5 - 145*
PCB-111L	*80*		*10 - 145*
PCB-178L	*84*		*10 - 145*

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	1.67	J	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-2	0.25	U	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-3	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-4	17	U	20	17	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-5	3.5	U	20	3.5	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-6	3.5	U	20	3.5	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-7	3.2	U	20	3.2	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-8	3.4	U	20	3.4	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-9	3.7	U	20	3.7	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-10	10	U	20	10	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-11	3.6	U	20	3.6	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-12/13	3.6	U	40	3.6	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-14	3.0	U	20	3.0	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-15	3.5	U	20	3.5	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-16	0.80	U	20	0.80	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-17	0.910	J	20	0.56	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-18/30	1.37	J	40	0.48	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-19	0.66	U	20	0.66	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-20/28	2.03	J	40	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-21/33	1.14	J	40	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-22	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-23	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-24	0.41	U	20	0.41	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-25	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-26/29	0.33	U	40	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-27	0.42	U	20	0.42	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-31	1.81	J	20	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-32	0.32	U	20	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-34	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-35	0.38	U	20	0.38	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-36	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-37	0.43	U	20	0.43	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-38	0.36	U	20	0.36	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-39	0.34	U	20	0.34	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-40/71	0.524	J q	40	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-41	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-42	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-43	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-44/47/65	1.76	J q	60	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-45	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-46	0.32	U	20	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-48	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-49/69	1.07	J	40	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-50/53	0.25	U	40	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-51	0.25	U	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-52	1.68	J	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-54	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-55	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-56	0.34	U	20	0.34	pg/g		01/09/14 14:14	02/04/14 15:59	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-58	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-59/62/75	0.20	U	60	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-60	0.32	U	20	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-61/70/74/76	1.37	J	80	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-63	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-64	0.480	J	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-66	0.615	J	20	0.34	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-67	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-68	0.27	U	20	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-72	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-73	0.21	U	20	0.21	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-77	0.39	U	2.0	0.39	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-78	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-79	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-80	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-81	0.38	U	2.0	0.38	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-82	0.44	U	20	0.44	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-83	0.47	U	20	0.47	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-84	0.40	U	20	0.40	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-85/116/117	0.29	U	60	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-86/87/97/108/119/125	0.30	U	120	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-88/91	0.33	U	40	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-89	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-90/101/113	0.946	J	60	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-92	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-93/100	0.34	U	40	0.34	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-107/124	0.28	U	40	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-94	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-95	0.809	J	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-96	0.18	U	20	0.18	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-98/102	0.31	U	40	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-99	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-103	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-104	0.19	U	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-105	0.31	U	2.0	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-106	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-110/115	0.870	J	40	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-109	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-111	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-112	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-114	0.30	U	2.0	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-115	0.870	J	40	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-118	0.624	J q	2.0	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-120	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-121	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-122	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-123	0.29	U	2.0	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-126	0.33	U	2.0	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-127	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-128/166	0.31	U	40	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-129/138/163	0.783	J	60	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-130	0.42	U	20	0.42	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-131	0.40	U	20	0.40	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-132	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-133	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-134/143	0.38	U	40	0.38	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-135/151	0.33	U	40	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-136	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-137	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-139/140	0.32	U	40	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-141	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-142	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-144	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-145	0.23	U	20	0.23	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-146	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-147/149	0.33	U	40	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-148	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-150	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-152	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-153/168	0.27	U	40	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-154	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-155	0.27	U	20	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-156/157	0.24	U	4.0	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-158	0.25	U	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-159	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-160	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-161	0.25	U	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-162	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-164	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-165	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-167	0.19	U	2.0	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-169	0.22	U	2.0	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-170	0.21	U	20	0.21	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-171/173	0.19	U	40	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-172	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-174	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-175	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-176	0.19	U	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-177	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-178	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-179	0.21	U	20	0.21	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-180/193	0.16	U	40	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-181	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-182	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-183	0.15	U	20	0.15	pg/g		01/09/14 14:14	02/04/14 15:59	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-184	0.21	U	20	0.21	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-185	0.18	U	20	0.18	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-186	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-187	0.27	U	20	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-188	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-189	0.28	U	2.0	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-190	0.15	U	20	0.15	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-191	0.14	U	20	0.14	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-192	0.15	U	20	0.15	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-194	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-195	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-196	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-197	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-198/199	0.25	U	40	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-200	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-201	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-202	0.19	U	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-203	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-204	0.17	U	20	0.17	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-205	0.19	U	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-206	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-207	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-208	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-209	0.875	J	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Monochlorobiphenyls	1.67	J	200	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Dichlorobiphenyls	17	U	200	17	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Trichlorobiphenyls	7.25	J	200	0.41	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Tetrachlorobiphenyls	7.50	J q	200	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Pentachlorobiphenyls	3.25	J q	200	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Hexachlorobiphenyls	0.783	J	200	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Heptachlorobiphenyls	0.30	U	200	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Octachlorobiphenyls	0.28	U	200	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Nonachlorobiphenyls	0.22	U	200	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
Polychlorinated biphenyls, Total	21.3	J q	200	2.0	pg/g		01/09/14 14:14	02/04/14 15:59	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*43*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-15L	*55*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-123L	*63*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-114L	*62*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-3L	*47*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-118L	*62*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-126L	*69*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-202L	*74*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-169L	*74*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-206L	*90*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-37L	*52*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-19L	*55*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-188L	61		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-54L	44		5 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-156L/157L	70		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-167L	67		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-209L	81		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-189L	73		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-105L	65		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-208L	87		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-1L	38		5 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-104L	48		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-81L	59		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-77L	59		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-205L	83		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-155L	49		10 - 145	01/09/14 14:14	02/04/14 15:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	50		5 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-111L	58		10 - 145	01/09/14 14:14	02/04/14 15:59	1
PCB-178L	68		10 - 145	01/09/14 14:14	02/04/14 15:59	1

Lab Sample ID: LCS 320-33530/2-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	224		pg/g		112	60 - 135
PCB-3	200	213		pg/g		106	60 - 135
PCB-4	200	217		pg/g		109	60 - 135
PCB-15	200	223		pg/g		112	60 - 135
PCB-19	200	198		pg/g		99	60 - 135
PCB-37	200	228		pg/g		114	60 - 135
PCB-54	200	225		pg/g		113	60 - 135
PCB-77	200	238		pg/g		119	60 - 135
PCB-81	200	235		pg/g		117	60 - 135
PCB-104	200	227		pg/g		114	60 - 135
PCB-105	200	237		pg/g		119	60 - 135
PCB-114	200	226		pg/g		113	60 - 135
PCB-118	200	237		pg/g		119	60 - 135
PCB-123	200	225		pg/g		112	60 - 135
PCB-126	200	235		pg/g		117	60 - 135
PCB-155	200	228		pg/g		114	60 - 135
PCB-156/157	400	455		pg/g		114	60 - 135
PCB-167	200	227		pg/g		113	60 - 135
PCB-169	200	233		pg/g		117	60 - 135
PCB-188	200	230		pg/g		115	60 - 135
PCB-189	200	242		pg/g		121	60 - 135
PCB-202	200	248		pg/g		124	60 - 135
PCB-205	200	221		pg/g		111	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-33530/2-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33530

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-206			200	231		pg/g		115	60 - 135		
PCB-208			200	227		pg/g		114	60 - 135		
PCB-209			200	229		pg/g		115	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*39*		*15 - 145*
PCB-15L	*44*		*15 - 145*
PCB-123L	*47*		*40 - 145*
PCB-114L	*47*		*40 - 145*
PCB-3L	*42*		*15 - 145*
PCB-118L	*47*		*40 - 145*
PCB-126L	*50*		*40 - 145*
PCB-202L	*56*		*40 - 145*
PCB-169L	*61*		*40 - 145*
PCB-206L	*70*		*40 - 145*
PCB-37L	*41*		*15 - 145*
PCB-19L	*46*		*15 - 145*
PCB-188L	*47*		*40 - 145*
PCB-54L	*35*		*15 - 145*
PCB-156L/157L	*57*		*40 - 145*
PCB-167L	*54*		*40 - 145*
PCB-209L	*65*		*40 - 145*
PCB-189L	*58*		*40 - 145*
PCB-105L	*48*		*40 - 145*
PCB-208L	*68*		*40 - 145*
PCB-1L	*36*		*15 - 145*
PCB-104L	*37*	*	*40 - 145*
PCB-81L	*43*		*40 - 145*
PCB-77L	*43*		*40 - 145*
PCB-205L	*66*		*40 - 145*
PCB-155L	*40*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*47*		*5 - 145*
PCB-111L	*56*		*10 - 145*
PCB-178L	*69*		*10 - 145*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-31992/1-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31992

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.15	U	10	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1
2,3,7,8-TCDF	0.250	J	10	0.11	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8-PeCDD	0.22	U	50	0.22	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8-PeCDF	0.15	U	50	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31992/1-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31992

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,7,8-PeCDF	0.15	U	50	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8-HxCDD	0.18	U	50	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,6,7,8-HxCDD	0.12	U	50	0.12	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8,9-HxCDD	0.11	U	50	0.11	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8-HxCDF	0.956	J q	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,6,7,8-HxCDF	0.12	U	50	0.12	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8,9-HxCDF	0.14	U	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
2,3,4,6,7,8-HxCDF	0.13	U	50	0.13	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,6,7,8-HpCDD	1.39	J	50	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,6,7,8-HpCDF	2.65	J	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8,9-HpCDF	0.17	U	50	0.17	pg/L		12/16/13 16:32	01/10/14 00:48	1
OCDD	10.1	J	100	0.20	pg/L		12/16/13 16:32	01/10/14 00:48	1
OCDF	4.14	J q	100	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*85*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,7,8-PeCDD	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,6,7,8-HxCDD	*93*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-2,3,7,8-TCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*86*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,7,8-HxCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-OCDD	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*

Lab Sample ID: LCS 320-31992/2-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	218		pg/L		109	64 - 142
2,3,7,8-TCDF	200	221		pg/L		111	71 - 142
1,2,3,7,8-PeCDD	1000	1090		pg/L		109	71 - 140
1,2,3,7,8-PeCDF	1000	1130		pg/L		113	76 - 135
2,3,4,7,8-PeCDF	1000	1110		pg/L		111	74 - 137
1,2,3,4,7,8-HxCDD	1000	1040		pg/L		104	56 - 146
1,2,3,6,7,8-HxCDD	1000	1150		pg/L		115	73 - 144
1,2,3,7,8,9-HxCDD	1000	1080		pg/L		108	71 - 151
1,2,3,4,7,8-HxCDF	1000	1190		pg/L		119	75 - 131
1,2,3,6,7,8-HxCDF	1000	1200		pg/L		120	76 - 133
1,2,3,7,8,9-HxCDF	1000	1150		pg/L		115	77 - 142
2,3,4,6,7,8-HxCDF	1000	1230		pg/L		123	80 - 137
1,2,3,4,6,7,8-HpCDD	1000	1070		pg/L		107	78 - 139
1,2,3,4,6,7,8-HpCDF	1000	1100		pg/L		110	79 - 133
1,2,3,4,7,8,9-HpCDF	1000	1060		pg/L		106	83 - 130
OCDD	2000	2080		pg/L		104	80 - 132
OCDF	2000	1960		pg/L		98	72 - 140

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-31992/2-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31992

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-2,3,7,8-TCDD	86		40 - 135
13C-1,2,3,7,8-PeCDD	89		40 - 135
13C-1,2,3,7,8-PeCDF	89		40 - 135
13C-1,2,3,6,7,8-HxCDD	91		40 - 135
13C-2,3,7,8-TCDF	88		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	90		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	91		40 - 135
13C-1,2,3,4,7,8-HxCDF	87		40 - 135
13C-OCDD	93		40 - 135

Lab Sample ID: MB 320-33163/1-A
Matrix: Solid
Analysis Batch: 33792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33163

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.014	U	1.0	0.014	pg/g		01/03/14 14:52	01/10/14 11:09	1
2,3,7,8-TCDF	0.010	U	1.0	0.010	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,7,8-PeCDD	0.021	U	5.0	0.021	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,7,8-PeCDF	0.013	U	5.0	0.013	pg/g		01/03/14 14:52	01/10/14 11:09	1
2,3,4,7,8-PeCDF	0.013	U	5.0	0.013	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,4,7,8-HxCDD	0.018	U	5.0	0.018	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,6,7,8-HxCDD	0.016	U	5.0	0.016	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,7,8,9-HxCDD	0.030	U	5.0	0.030	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,4,7,8-HxCDF	0.0510	J q	5.0	0.0099	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,6,7,8-HxCDF	0.0228	J q	5.0	0.0084	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,7,8,9-HxCDF	0.010	U	5.0	0.010	pg/g		01/03/14 14:52	01/10/14 11:09	1
2,3,4,6,7,8-HxCDF	0.0093	U	5.0	0.0093	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,4,6,7,8-HpCDD	0.0699	J q	5.0	0.023	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,4,6,7,8-HpCDF	0.119	J	5.0	0.016	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,4,7,8,9-HpCDF	0.019	U	5.0	0.019	pg/g		01/03/14 14:52	01/10/14 11:09	1
OCDD	1.03	J	10	0.021	pg/g		01/03/14 14:52	01/10/14 11:09	1
OCDF	0.334	J	10	0.019	pg/g		01/03/14 14:52	01/10/14 11:09	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	69		40 - 135	01/03/14 14:52	01/10/14 11:09	1
13C-1,2,3,7,8-PeCDD	68		40 - 135	01/03/14 14:52	01/10/14 11:09	1
13C-1,2,3,7,8-PeCDF	69		40 - 135	01/03/14 14:52	01/10/14 11:09	1
13C-1,2,3,6,7,8-HxCDD	79		40 - 135	01/03/14 14:52	01/10/14 11:09	1
13C-2,3,7,8-TCDF	70		40 - 135	01/03/14 14:52	01/10/14 11:09	1
13C-1,2,3,4,6,7,8-HpCDD	70		40 - 135	01/03/14 14:52	01/10/14 11:09	1
13C-1,2,3,4,6,7,8-HpCDF	72		40 - 135	01/03/14 14:52	01/10/14 11:09	1
13C-1,2,3,4,7,8-HxCDF	72		40 - 135	01/03/14 14:52	01/10/14 11:09	1
13C-OCDD	68		40 - 135	01/03/14 14:52	01/10/14 11:09	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-33163/2-A
Matrix: Solid
Analysis Batch: 33792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	24.8		pg/g		124	77 - 130
2,3,7,8-TCDF	20.0	25.3		pg/g		126	79 - 137
1,2,3,7,8-PeCDD	100	122		pg/g		122	79 - 134
1,2,3,7,8-PeCDF	100	129		pg/g		129	81 - 134
2,3,4,7,8-PeCDF	100	124		pg/g		124	76 - 132
1,2,3,4,7,8-HxCDD	100	105		pg/g		105	65 - 144
1,2,3,6,7,8-HxCDD	100	125		pg/g		125	73 - 147
1,2,3,7,8,9-HxCDD	100	117		pg/g		117	80 - 143
1,2,3,4,7,8-HxCDF	100	130		pg/g		130	72 - 140
1,2,3,6,7,8-HxCDF	100	142		pg/g		142	63 - 152
1,2,3,7,8,9-HxCDF	100	132		pg/g		132	72 - 152
2,3,4,6,7,8-HxCDF	100	140		pg/g		140	72 - 151
1,2,3,4,6,7,8-HpCDD	100	123		pg/g		123	86 - 134
1,2,3,4,6,7,8-HpCDF	100	126		pg/g		126	81 - 137
1,2,3,4,7,8,9-HpCDF	100	118		pg/g		118	79 - 139
OCDD	200	248		pg/g		124	80 - 137
OCDF	200	240		pg/g		120	75 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*69*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*70*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*70*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*78*		*40 - 135*
13C-2,3,7,8-TCDF	*69*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*70*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*71*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*69*		*40 - 135*
13C-OCDD	*69*		*40 - 135*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-94980/1-A
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13	U	19	13	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Barium	0.24	U	4.8	0.24	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Beryllium	0.16	U	0.48	0.16	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Cadmium	0.095	U	0.48	0.095	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Calcium	13	U	240	13	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Chromium	0.29	U	0.95	0.29	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Cobalt	0.90	U	4.8	0.90	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Copper	0.69	U	2.4	0.69	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Iron	2.8	U	9.5	2.8	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Magnesium	7.9	U	95	7.9	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Manganese	0.15	U	0.95	0.15	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Nickel	0.21	U	3.8	0.21	mg/Kg		12/27/13 10:26	01/09/14 22:54	1

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

Lab Sample ID: MB 160-94980/1-A
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	320	U	480	320	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Lead	0.16	U	0.95	0.16	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Antimony	0.61	U	0.95	0.61	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Silver	0.22	U	0.95	0.22	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Selenium	0.28	U	1.4	0.28	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Titanium	0.60	U	1.9	0.60	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Vanadium	1.2	U	4.8	1.2	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Zinc	1.9	U	4.8	1.9	mg/Kg		12/27/13 10:26	01/09/14 22:54	1

Lab Sample ID: MB 160-94980/1-A
Matrix: Solid
Analysis Batch: 98572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	45	U	95	45	mg/Kg		12/27/13 10:26	01/15/14 16:11	1

Lab Sample ID: LCS 160-94980/2-A
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9780	6800		mg/Kg		70	44 - 155
Barium	325	281		mg/Kg		86	74 - 125
Beryllium	92.1	77.5		mg/Kg		84	74 - 126
Cadmium	110	90.4		mg/Kg		82	73 - 139
Calcium	6700	5770		mg/Kg		86	74 - 125
Chromium	93.4	80.1		mg/Kg		86	69 - 130
Cobalt	133	118		mg/Kg		89	74 - 125
Copper	74.7	62.4		mg/Kg		84	73 - 126
Iron	13100	10100		mg/Kg		77	32 - 167
Magnesium	2980	2260		mg/Kg		76	66 - 134
Manganese	443	380		mg/Kg		86	77 - 124
Nickel	109	94.6		mg/Kg		87	72 - 126
Potassium	2770	2380		mg/Kg		86	61 - 138
Lead	152	132		mg/Kg		87	73 - 126
Antimony	121	50.9		mg/Kg		42	21 - 251
Silver	51.9	45.3		mg/Kg		87	66 - 133
Selenium	207	173		mg/Kg		84	69 - 131
Titanium	193	174		mg/Kg		90	29 - 171
Vanadium	110	90.0		mg/Kg		82	67 - 132
Zinc	299	254		mg/Kg		85	71 - 128

Lab Sample ID: LCS 160-94980/2-A
Matrix: Solid
Analysis Batch: 98572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	724	696		mg/Kg		96	56 - 144

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

Lab Sample ID: 680-96898-8 MS
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: SC-SS-1_SS
Prep Type: Total/NA
Prep Batch: 94980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	12000		990	14800	4	mg/Kg	☼	283	75 - 125
Antimony	3.0	U	49.5	21.9	F1	mg/Kg	☼	44	75 - 125
Barium	230		99.0	292	F1	mg/Kg	☼	64	75 - 125
Beryllium	0.80	U	99.0	97.4		mg/Kg	☼	98	75 - 125
Cadmium	0.48	U	99.0	98.7		mg/Kg	☼	100	75 - 125
Calcium	33000		990	39800	4	mg/Kg	☼	656	75 - 125
Chromium	33		99.0	130		mg/Kg	☼	98	75 - 125
Cobalt	12	J	99.0	110		mg/Kg	☼	99	75 - 125
Copper	27		99.0	124		mg/Kg	☼	98	75 - 125
Iron	18000		990	17600	4	mg/Kg	☼	-24	75 - 125
Lead	27		99.0	120		mg/Kg	☼	94	75 - 125
Magnesium	11000		990	11500	4	mg/Kg	☼	14	75 - 125
Manganese	1400		99.0	1110	4	mg/Kg	☼	-266	75 - 125
Nickel	19		99.0	121		mg/Kg	☼	102	75 - 125
Potassium	2100	J	990	3230		mg/Kg	☼	116	75 - 125
Selenium	1.4	U	49.5	44.1		mg/Kg	☼	89	75 - 125
Silver	1.1	U	19.8	20.8		mg/Kg	☼	105	75 - 125
Titanium	1200		99.0	1270	4	mg/Kg	☼	29	75 - 125
Vanadium	83		99.0	170		mg/Kg	☼	88	75 - 125
Zinc	98		99.0	184		mg/Kg	☼	87	75 - 125

Lab Sample ID: 680-96898-8 MS
Matrix: Solid
Analysis Batch: 98572

Client Sample ID: SC-SS-1_SS
Prep Type: Total/NA
Prep Batch: 94980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	29000		990	25600	4	mg/Kg	☼	-365	75 - 125

Lab Sample ID: 680-96898-8 MSD
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: SC-SS-1_SS
Prep Type: Total/NA
Prep Batch: 94980

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	12000		1050	14800	4	mg/Kg	☼	266	75 - 125	0	30
Antimony	3.0	U	52.6	24.7	F1	mg/Kg	☼	47	75 - 125	12	30
Barium	230		105	315		mg/Kg	☼	83	75 - 125	8	30
Beryllium	0.80	U	105	103		mg/Kg	☼	98	75 - 125	6	30
Cadmium	0.48	U	105	103		mg/Kg	☼	98	75 - 125	4	30
Calcium	33000		1050	49600	4	mg/Kg	☼	1551	75 - 125	22	30
Chromium	33		105	128		mg/Kg	☼	90	75 - 125	2	30
Cobalt	12	J	105	116		mg/Kg	☼	99	75 - 125	5	30
Copper	27		105	130		mg/Kg	☼	98	75 - 125	4	30
Iron	18000		1050	18900	4	mg/Kg	☼	106	75 - 125	7	30
Lead	27		105	124		mg/Kg	☼	91	75 - 125	3	30
Magnesium	11000		1050	11500	4	mg/Kg	☼	13	75 - 125	0	30
Manganese	1400		105	1270	4	mg/Kg	☼	-102	75 - 125	13	30
Nickel	19		105	122		mg/Kg	☼	98	75 - 125	1	30
Potassium	2100	J	1050	3360		mg/Kg	☼	122	75 - 125	4	30

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

Lab Sample ID: 680-96898-8 MSD
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: SC-SS-1_SS
Prep Type: Total/NA
Prep Batch: 94980

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	1.4	U	52.6	47.3		mg/Kg	☼	90	75 - 125	7	30
Silver	1.1	U	21.0	21.5		mg/Kg	☼	102	75 - 125	3	30
Titanium	1200		105	1140	4	mg/Kg	☼	-97	75 - 125	11	30
Vanadium	83		105	166		mg/Kg	☼	80	75 - 125	2	30
Zinc	98		105	193		mg/Kg	☼	91	75 - 125	5	30

Lab Sample ID: 680-96898-8 MSD
Matrix: Solid
Analysis Batch: 98572

Client Sample ID: SC-SS-1_SS
Prep Type: Total/NA
Prep Batch: 94980

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	29000		1050	21700	4	mg/Kg	☼	-714	75 - 125	16	30

Lab Sample ID: MB 160-96025/1-A
Matrix: Water
Analysis Batch: 97021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96025

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	80	U	200	80	ug/L		01/03/14 17:29	01/08/14 13:36	1
Barium	4.0	U	50	4.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Beryllium	0.61	U	5.0	0.61	ug/L		01/03/14 17:29	01/08/14 13:36	1
Cadmium	0.91	U	5.0	0.91	ug/L		01/03/14 17:29	01/08/14 13:36	1
Calcium	110	U	1000	110	ug/L		01/03/14 17:29	01/08/14 13:36	1
Chromium	3.1	U	10	3.1	ug/L		01/03/14 17:29	01/08/14 13:36	1
Cobalt	4.9	U	50	4.9	ug/L		01/03/14 17:29	01/08/14 13:36	1
Copper	4.6	U	25	4.6	ug/L		01/03/14 17:29	01/08/14 13:36	1
Iron	28	U	100	28	ug/L		01/03/14 17:29	01/08/14 13:36	1
Magnesium	130	U	1000	130	ug/L		01/03/14 17:29	01/08/14 13:36	1
Manganese	3.3	U	15	3.3	ug/L		01/03/14 17:29	01/08/14 13:36	1
Nickel	13	U	40	13	ug/L		01/03/14 17:29	01/08/14 13:36	1
Potassium	1700	U	5000	1700	ug/L		01/03/14 17:29	01/08/14 13:36	1
Lead	1.5	U	10	1.5	ug/L		01/03/14 17:29	01/08/14 13:36	1
Antimony	4.0	U	10	4.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Silver	6.0	U	10	6.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Selenium	2.7	U	15	2.7	ug/L		01/03/14 17:29	01/08/14 13:36	1
Sodium	320	U	1000	320	ug/L		01/03/14 17:29	01/08/14 13:36	1
Titanium	2.4	U	20	2.4	ug/L		01/03/14 17:29	01/08/14 13:36	1
Vanadium	4.1	U	50	4.1	ug/L		01/03/14 17:29	01/08/14 13:36	1
Zinc	13.0	J	20	5.2	ug/L		01/03/14 17:29	01/08/14 13:36	1

Lab Sample ID: LCS 160-96025/2-A
Matrix: Water
Analysis Batch: 97021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96025

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	10500		ug/L		105	80 - 120
Barium	1000	1040		ug/L		104	80 - 120
Beryllium	1000	1050		ug/L		105	80 - 120
Cadmium	1000	1040		ug/L		104	80 - 120

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

Lab Sample ID: LCS 160-96025/2-A
Matrix: Water
Analysis Batch: 97021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96025

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	10000	10900		ug/L		109	80 - 120
Chromium	1000	1010		ug/L		101	80 - 120
Cobalt	1000	1080		ug/L		108	80 - 120
Copper	1000	1080		ug/L		108	80 - 120
Iron	10000	10600		ug/L		106	80 - 120
Magnesium	10000	9960		ug/L		100	80 - 120
Manganese	1000	1080		ug/L		108	80 - 120
Nickel	1000	1100		ug/L		110	80 - 120
Potassium	10000	11700		ug/L		117	80 - 120
Lead	1000	1090		ug/L		109	80 - 120
Antimony	500	513		ug/L		103	80 - 120
Silver	200	201		ug/L		100	80 - 120
Selenium	500	516		ug/L		103	80 - 120
Sodium	10000	11700		ug/L		117	80 - 120
Titanium	1000	1020		ug/L		102	80 - 120
Vanadium	1000	1040		ug/L		104	80 - 120
Zinc	1000	1070		ug/L		107	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-94981/1-A
Matrix: Solid
Analysis Batch: 95496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.25	U	0.95	0.25	mg/Kg		12/27/13 10:30	12/31/13 02:42	2
Niobium	0.36	U	2.4	0.36	mg/Kg		12/27/13 10:30	12/31/13 02:42	2
Thallium	0.14	U	0.48	0.14	mg/Kg		12/27/13 10:30	12/31/13 02:42	2
Uranium	0.019	U	0.095	0.019	mg/Kg		12/27/13 10:30	12/31/13 02:42	2

Lab Sample ID: LCS 160-94981/12-A
Matrix: Solid
Analysis Batch: 95496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	48.4	51.5	E	mg/Kg		106	80 - 120
Uranium	96.9	97.9		mg/Kg		101	80 - 120

Lab Sample ID: LCS 160-94981/2-A
Matrix: Solid
Analysis Batch: 95620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	109	112		mg/Kg		103	70 - 131
Thallium	171	179		mg/Kg		105	68 - 131

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

Lab Sample ID: 680-96898-8 MS
Matrix: Solid
Analysis Batch: 95496

Client Sample ID: SC-SS-1_SS
Prep Type: Total/NA
Prep Batch: 94981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.7	J	99.0	108		mg/Kg	☼	105	75 - 125
Niobium	7.8	J	49.5	31.0	F1	mg/Kg	☼	47	75 - 125
Thallium	0.72	U	19.8	21.0		mg/Kg	☼	106	75 - 125
Uranium	1.7		99.0	105		mg/Kg	☼	105	75 - 125

Lab Sample ID: 680-96898-8 MSD
Matrix: Solid
Analysis Batch: 95496

Client Sample ID: SC-SS-1_SS
Prep Type: Total/NA
Prep Batch: 94981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.7	J	105	112		mg/Kg	☼	102	75 - 125	3	30
Niobium	7.8	J	52.6	34.3	F1	mg/Kg	☼	50	75 - 125	10	30
Thallium	0.72	U	21.0	22.6		mg/Kg	☼	107	75 - 125	7	30
Uranium	1.7		105	112		mg/Kg	☼	104	75 - 125	6	30

Lab Sample ID: MB 160-96024/1-A
Matrix: Water
Analysis Batch: 96993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		01/03/14 17:29	01/09/14 00:26	1
Niobium	2.2	U	25	2.2	ug/L		01/03/14 17:29	01/09/14 00:26	1
Thallium	0.55	U	2.0	0.55	ug/L		01/03/14 17:29	01/09/14 00:26	1
Uranium	0.23	U	1.0	0.23	ug/L		01/03/14 17:29	01/09/14 00:26	1

Lab Sample ID: LCS 160-96024/2-A
Matrix: Water
Analysis Batch: 96993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	950		ug/L		95	80 - 120
Niobium	500	518	E	ug/L		104	80 - 120
Thallium	200	206		ug/L		103	80 - 120
Uranium	1000	985		ug/L		98	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-90942/1-A
Matrix: Water
Analysis Batch: 91160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		12/10/13 09:56	12/11/13 14:16	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 160-90942/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91160 — **Prep Batch: 90942**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.30		ug/L		106	80 - 120

Lab Sample ID: 680-96898-13 MS — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91160 — **Prep Batch: 90942**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.060	U	5.00	5.49		ug/L		110	80 - 120

Lab Sample ID: 680-96898-13 MSD — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91160 — **Prep Batch: 90942**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.060	U	5.00	5.25		ug/L		105	80 - 120	4	20

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 160-90478/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91139 — **Prep Batch: 90478**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	U	0.031	0.010	mg/Kg		12/09/13 13:42	12/11/13 13:19	1

Lab Sample ID: LCS 160-90478/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91139 — **Prep Batch: 90478**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	16.3	15.2		mg/Kg		93	51 - 148

Lab Sample ID: 680-96898-8 MS — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91139 — **Prep Batch: 90478**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.015	J	0.777	0.772		mg/Kg	☼	97	80 - 120

Lab Sample ID: 680-96898-8 MSD — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91139 — **Prep Batch: 90478**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.015	J	0.784	0.749		mg/Kg	☼	94	80 - 120	3	30

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) (Continued)

Lab Sample ID: MB 160-91133/1-A
Matrix: Solid
Analysis Batch: 92199

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0101	J	0.031	0.010	mg/Kg		12/11/13 13:37	12/15/13 13:33	1

Lab Sample ID: LCS 160-91133/2-A
Matrix: Solid
Analysis Batch: 92199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	16.3	16.7		mg/Kg		102	51 - 148

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-91124/9
Matrix: Water
Analysis Batch: 91124

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0040	U	0.020	0.0040	mg/L			12/07/13 19:23	1
Chloride	0.020	U	0.20	0.020	mg/L			12/07/13 19:23	1
Sulfate	0.050	U	0.50	0.050	mg/L			12/07/13 19:23	1

Lab Sample ID: LCS 160-91124/10
Matrix: Water
Analysis Batch: 91124

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.400	0.380		mg/L		95	90 - 110
Chloride	2.00	1.95		mg/L		97	90 - 110
Sulfate	8.00	7.62		mg/L		95	90 - 110

Lab Sample ID: 680-96898-13 MS
Matrix: Water
Analysis Batch: 91124

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.19		0.400	0.624		mg/L		110	90 - 110
Chloride	4.5		2.00	6.84	F	mg/L		116	90 - 110
Sulfate	5.2		4.00	9.07		mg/L		97	90 - 110

Lab Sample ID: 680-96898-13 MSD
Matrix: Water
Analysis Batch: 91124

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.19		0.400	0.627		mg/L		110	90 - 110	0	20
Chloride	4.5		2.00	6.85	F	mg/L		117	90 - 110	0	20
Sulfate	5.2		4.00	9.11		mg/L		99	90 - 110	0	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 160-98266/3
Matrix: Solid
Analysis Batch: 98266

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.0200	0.0192	J	mg/L		96	80 - 120
Chloride	0.200	0.209		mg/L		105	80 - 120
Sulfate	0.500	0.479	J	mg/L		96	80 - 120

Lab Sample ID: MB 160-97027/1-A
Matrix: Solid
Analysis Batch: 98266

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.040	U	0.20	0.040	mg/Kg			01/13/14 12:21	1
Chloride	0.20	U	2.0	0.20	mg/Kg			01/13/14 12:21	1
Sulfate	0.50	U	5.0	0.50	mg/Kg			01/13/14 12:21	1

Lab Sample ID: LCS 160-97027/2-A
Matrix: Solid
Analysis Batch: 98266

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.01	3.86		mg/Kg		96	90 - 110
Chloride	20.1	18.3		mg/Kg		91	90 - 110
Sulfate	80.3	76.5		mg/Kg		95	90 - 110

Lab Sample ID: 680-96898-8 MS
Matrix: Solid
Analysis Batch: 98266

Client Sample ID: SC-SS-1_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.5	H	4.33	7.01	H F1	mg/Kg	☼	128	90 - 110

Lab Sample ID: 680-96898-8 MSD
Matrix: Solid
Analysis Batch: 98266

Client Sample ID: SC-SS-1_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	1.5	H	4.36	5.53	H F2	mg/Kg	☼	93	90 - 110	24	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 680-96898-8 MS
Matrix: Solid
Analysis Batch: 98266

Client Sample ID: SC-SS-1_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	6500	H	4330	12800	H F1	mg/Kg	☼	146	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL (Continued)

Lab Sample ID: 680-96898-8 MSD
Matrix: Solid
Analysis Batch: 98266

Client Sample ID: SC-SS-1_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate - DL	6500	H	4360	14000	H F1	mg/Kg	☼	171	90 - 110	8	20

Method: 300.0 - Anions, Ion Chromatography - DL2

Lab Sample ID: 680-96898-8 MS
Matrix: Solid
Analysis Batch: 98266

Client Sample ID: SC-SS-1_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL2	13000	H	21600	36500	H	mg/Kg	☼	107	90 - 110

Lab Sample ID: 680-96898-8 MSD
Matrix: Solid
Analysis Batch: 98266

Client Sample ID: SC-SS-1_SS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride - DL2	13000	H	21800	34100	H	mg/Kg	☼	95	90 - 110	7	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-94280/1-A
Matrix: Solid
Analysis Batch: 94286

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94280

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.3893	U	10.0	4.99	pCi/g		12/23/13 11:18	12/23/13 18:49	1
Gross Beta	2.595		10.0	2.27	pCi/g		12/23/13 11:18	12/23/13 18:49	1

Lab Sample ID: LCS 160-94280/2-A
Matrix: Solid
Analysis Batch: 94286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94280

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	27.1	16.36		5.24	4.95	pCi/g	60	44 - 140
Gross Beta	26.8	26.95		4.16	2.66	pCi/g	101	38 - 130

Lab Sample ID: MB 160-95516/1-A
Matrix: Water
Analysis Batch: 95840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95516

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.05583	U	3.00	1.44	pCi/L		12/31/13 12:16	01/02/14 18:28	1
Gross Beta	-0.06862	U	4.00	0.833	pCi/L		12/31/13 12:16	01/02/14 18:28	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Lab Sample ID: LCS 160-95516/2-A
Matrix: Water
Analysis Batch: 95840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95516

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	53.8	48.83		7.27	1.91	pCi/L	91	75 - 125

Lab Sample ID: LCSB 160-95516/3-A
Matrix: Water
Analysis Batch: 95840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95516

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	98.2	94.35		9.96	0.993	pCi/L	96	75 - 125

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-94333/1-A
Matrix: Solid
Analysis Batch: 98110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94333

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	0.1208	U		0.393	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-212	-0.1137	U		1.56	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-214	0.06744	U		0.204	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-210M	0.02172	U		0.132	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cesium-134	0.01890	U		0.0532	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cesium-137	0.0000	U		0.0658	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cobalt-57	0.0000	U		0.0580	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cobalt-60	0.0000	U		0.377	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Lead-212	-0.03959	U		0.157	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Lead-214	-0.01117	U		0.239	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Potassium-40	-0.08341	U		1.76	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Protactinium-231	0.07350	U		3.03	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Protactinium-234	0.05108	U		0.174	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Radium-224	-0.04467	U		1.78	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thallium-208	-0.05488	U		0.158	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thorium-227	0.01782	U		0.539	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thorium-234	0.03218	U		2.05	pCi/g		12/23/13 16:53	01/14/14 20:01	1

Lab Sample ID: LCS 160-94333/2-A
Matrix: Solid
Analysis Batch: 98430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94333

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	31.3	30.07		3.24	0.320	pCi/g	96	87 - 120
Cobalt-60	23.5	22.83		2.37	0.181	pCi/g	97	87 - 115
Americium-241	97.5	97.06		10.2	1.39	pCi/g	100	87 - 116

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-94337/1-A
Matrix: Water
Analysis Batch: 97890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94337

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	-0.4580	U		45.5	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Bismuth-212	-19.18	U		148	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Bismuth-214	-1.271	U		29.7	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Bismuth-210M	0.4886	U		15.2	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cesium-134	-0.1895	U		12.8	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cesium-137	0.0000	U		14.0	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cobalt-57	0.7235	U		7.47	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cobalt-60	-3.036	U		15.9	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Lead-212	7.985	U		19.3	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Lead-214	6.238	U		25.2	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Potassium-40	-31.49	U		219	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Protactinium-231	-54.05	U		285	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Protactinium-234	5.830	U		41.8	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Radium-224	2.040	U		181	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thallium-208	-3.845	U		15.0	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thorium-227	-17.75	U		69.9	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thorium-231	15.22	U		63.7	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thorium-234	83.40	U		202	pCi/L		12/23/13 17:56	01/13/14 02:14	1

Lab Sample ID: LCS 160-94337/2-A
Matrix: Water
Analysis Batch: 97574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94337

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	50500	49390		4960	224	pCi/L	98	90 - 111
Cobalt-60	59800	58270		5760	117	pCi/L	97	89 - 110
Americium-241	137000	132800		15300	554	pCi/L	97	90 - 111

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-90415/1-A
Matrix: Water
Analysis Batch: 95535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90415

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.06187	U	1.00	0.152	pCi/L		12/09/13 11:35	12/31/13 07:55	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*40 - 110*	*12/09/13 11:35*	*12/31/13 07:55*	*1*

Lab Sample ID: LCS 160-90415/2-A
Matrix: Water
Analysis Batch: 95535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90415

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	9.817		1.06	0.144	pCi/L	87	68 - 137

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-90415/2-A
Matrix: Water
Analysis Batch: 95535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90415

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	102		40 - 110

Lab Sample ID: MB 160-92022/1-A
Matrix: Solid
Analysis Batch: 96777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92022

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.1340	U	1.00	0.238	pCi/g		12/13/13 15:38	01/08/14 16:22	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110	12/13/13 15:38	01/08/14 16:22	1

Lab Sample ID: LCS 160-92022/2-A
Matrix: Solid
Analysis Batch: 96777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92022

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.2	11.58		1.29		0.246	pCi/g	103	65 - 140		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	109		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-90417/1-A
Matrix: Water
Analysis Batch: 95465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90417

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	-0.1412	U	1.00	0.441	pCi/L		12/09/13 11:40	12/30/13 11:00	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110	12/09/13 11:40	12/30/13 11:00	1
Y Carrier	85.6		40 - 110	12/09/13 11:40	12/30/13 11:00	1

Lab Sample ID: LCS 160-90417/2-A
Matrix: Water
Analysis Batch: 95465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90417

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-228			4.04	4.297		0.602		0.370	pCi/L	106	56 - 140		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	102		40 - 110

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-90417/2-A
Matrix: Water
Analysis Batch: 95465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90417

Carrier	LCS %Yield	LCS Qualifier	Limits
Y Carrier	86.7		40 - 110

Lab Sample ID: MB 160-92024/1-A
Matrix: Solid
Analysis Batch: 96785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92024

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.06486	U	1.00	0.357	pCi/g		12/13/13 14:41	01/08/14 12:16	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110	12/13/13 14:41	01/08/14 12:16	1
Y Carrier	90.8		40 - 110	12/13/13 14:41	01/08/14 12:16	1

Lab Sample ID: LCS 160-92024/2-A
Matrix: Solid
Analysis Batch: 96785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92024

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-228	4.02	3.745		0.547	0.336	pCi/g	93	61 - 139

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	109		40 - 110
Y Carrier	89.7		40 - 110

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-100386/1-A
Matrix: Water
Analysis Batch: 100960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100386

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	-0.008344	U	1.00	0.116	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-230	0.1637	U	1.00	0.255	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-232	-0.04458	U	1.00	0.190	pCi/L		01/22/14 08:57	01/23/14 22:10	1

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	83.1		30 - 110	01/22/14 08:57	01/23/14 22:10	1

Lab Sample ID: LCS 160-100386/2-A
Matrix: Water
Analysis Batch: 100961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100386

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Thorium-230	8.64	9.640		1.27	0.217	pCi/L	112	81 - 125

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-100386/2-A
Matrix: Water
Analysis Batch: 100961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100386

Tracer	LCS %Yield	LCS Qualifier	Limits
Thorium-229	76.3		30 - 110

Lab Sample ID: LCSD 160-100386/3-A
Matrix: Water
Analysis Batch: 100977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100386

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Thorium-230			8.64	9.553		1.25		0.220	pCi/L	111	81 - 125	0.03	1

Tracer	LCSD %Yield	LCSD Qualifier	Limits
Thorium-229	77.7		30 - 110

Lab Sample ID: MB 160-97453/1-A
Matrix: Solid
Analysis Batch: 99479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97453

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.1825		1.00	0.0734	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-230	0.1376		1.00	0.104	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-232	0.04637	U	1.00	0.0814	pCi/g		01/10/14 14:41	01/18/14 16:41	1

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	78.3		30 - 110	01/10/14 14:41	01/18/14 16:41	1

Lab Sample ID: LCS 160-97453/2-A
Matrix: Solid
Analysis Batch: 99546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97453

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			24.5	23.46		2.43		0.248	pCi/g	96	81 - 118		

Tracer	LCS %Yield	LCS Qualifier	Limits
Thorium-229	85.0		30 - 110

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-97007/1-A
Matrix: Water
Analysis Batch: 98989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97007

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	-0.01043	U	1.00	0.144	pCi/L		01/09/14 09:41	01/16/14 23:39	1
U-238	0.03623	U	1.00	0.116	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-233/234	0.03212	U	1.00	0.127	pCi/L		01/09/14 09:41	01/16/14 23:39	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: MB 160-97007/1-A
Matrix: Water
Analysis Batch: 98989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97007

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	85.8		30 - 110	01/09/14 09:41	01/16/14 23:39	1

Lab Sample ID: LCS 160-97007/2-A
Matrix: Water
Analysis Batch: 98990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97007

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.607	0.6640		0.310	0.105	pCi/L	109	
U-238	13.0	13.00		1.63	0.128	pCi/L	100	83 - 121
Uranium-233/234	12.7	12.68		1.60	0.146	pCi/L	100	84 - 120

Tracer	LCS %Yield	LCS Qualifier	Limits
Uranium-232	70.2		30 - 110

Lab Sample ID: LCSD 160-97007/3-A
Matrix: Water
Analysis Batch: 98991

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97007

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Uranium-235/236	0.607	0.4230	U	0.599	0.635	pCi/L	70		0.27	1
U-238	13.0	14.49		3.38	0.965	pCi/L	111	83 - 121	0.30	1
Uranium-233/234	12.7	14.04		3.32	0.883	pCi/L	110	84 - 120	0.28	1

Tracer	LCSD %Yield	LCSD Qualifier	Limits
Uranium-232	10.8	X	30 - 110

Lab Sample ID: MB 160-97859/1-A
Matrix: Solid
Analysis Batch: 99258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97859

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.0000	U	1.00	0.0429	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-238	0.02294	U	1.00	0.0344	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-233/234	0.03016	U	1.00	0.0597	pCi/g		01/10/14 14:41	01/17/14 20:37	1

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	78.5		30 - 110	01/10/14 14:41	01/17/14 20:37	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-97859/2-A
Matrix: Solid
Analysis Batch: 99259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97859

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.304	0.4293		0.159	0.0634	pCi/g	141	
Uranium-238	6.51	6.291		0.749	0.0335	pCi/g	97	82 - 122
Uranium-233/234	6.37	6.126		0.735	0.0725	pCi/g	96	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*80.8*		*30 - 110*

GC/MS VOA

Prep Batch: 90351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-4	K53-B-1_SUB	Total/NA	Solid	5035	
680-96898-4 MS	K53-B-1_SUB	Total/NA	Solid	5035	
680-96898-4 MSD	K53-B-1_SUB	Total/NA	Solid	5035	
680-96898-5	K53-B-1_SUB DUP	Total/NA	Solid	5035	
680-96898-7	RD-B-1_SUB	Total/NA	Solid	5035	
LCS 160-90351/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 160-90351/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 160-90351/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 90507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	8260C	
680-96898-13 MS	RINSATE	Total/NA	Water	8260C	
680-96898-13 MSD	RINSATE	Total/NA	Water	8260C	
680-96898-14	TRIP BLANK	Total/NA	Water	8260C	
LCS 160-90507/4-A	Lab Control Sample	Total/NA	Water	8260C	
MB 160-90507/3-A	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 90521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-4	K53-B-1_SUB	Total/NA	Solid	8260C	90351
680-96898-4 MS	K53-B-1_SUB	Total/NA	Solid	8260C	90351
680-96898-4 MSD	K53-B-1_SUB	Total/NA	Solid	8260C	90351
680-96898-5	K53-B-1_SUB DUP	Total/NA	Solid	8260C	90351
680-96898-7	RD-B-1_SUB	Total/NA	Solid	8260C	90351
LCS 160-90351/2-A	Lab Control Sample	Total/NA	Solid	8260C	90351
LCSD 160-90351/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	90351
MB 160-90351/1-A	Method Blank	Total/NA	Solid	8260C	90351

GC/MS Semi VOA

Prep Batch: 92812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	3550C	
680-96898-11 MS	P-B-12_SHALLOW	Total/NA	Solid	3550C	
680-96898-11 MSD	P-B-12_SHALLOW	Total/NA	Solid	3550C	
LCS 160-92812/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 160-92812/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 93362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	8270D	92812
680-96898-11 MS	P-B-12_SHALLOW	Total/NA	Solid	8270D	92812
680-96898-11 MSD	P-B-12_SHALLOW	Total/NA	Solid	8270D	92812
LCS 160-92812/2-A	Lab Control Sample	Total/NA	Solid	8270D	92812
MB 160-92812/1-A	Method Blank	Total/NA	Solid	8270D	92812

Prep Batch: 204860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-3	K53-B-1_SS	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Prep Batch: 204860 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-4	K53-B-1_SUB	Total/NA	Solid	3550C	
680-96898-4 MS	K53-B-1_SUB	Total/NA	Solid	3550C	
680-96898-4 MSD	K53-B-1_SUB	Total/NA	Solid	3550C	
680-96898-5	K53-B-1_SUB DUP	Total/NA	Solid	3550C	
680-96898-6	RD-B-1_SS	Total/NA	Solid	3550C	
680-96898-7	RD-B-1_SUB	Total/NA	Solid	3550C	
LCS 280-204860/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 280-204860/1-A	Method Blank	Total/NA	Solid	3550C	

Prep Batch: 204881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	3520C	
LCS 280-204881/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 280-204881/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 280-204881/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 205429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-3	K53-B-1_SS	Total/NA	Solid	8270C	204860
680-96898-4	K53-B-1_SUB	Total/NA	Solid	8270C	204860
680-96898-4 MS	K53-B-1_SUB	Total/NA	Solid	8270C	204860
680-96898-4 MSD	K53-B-1_SUB	Total/NA	Solid	8270C	204860
680-96898-5	K53-B-1_SUB DUP	Total/NA	Solid	8270C	204860
680-96898-6	RD-B-1_SS	Total/NA	Solid	8270C	204860
680-96898-7	RD-B-1_SUB	Total/NA	Solid	8270C	204860
LCS 280-204860/2-A	Lab Control Sample	Total/NA	Solid	8270C	204860
MB 280-204860/1-A	Method Blank	Total/NA	Solid	8270C	204860

Analysis Batch: 205553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	8270C	204881
LCS 280-204881/2-A	Lab Control Sample	Total/NA	Water	8270C	204881
LCSD 280-204881/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	204881
MB 280-204881/1-A	Method Blank	Total/NA	Water	8270C	204881

Specialty Organics

Prep Batch: 31992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	8290	
LCS 320-31992/2-A	Lab Control Sample	Total/NA	Water	8290	
MB 320-31992/1-A	Method Blank	Total/NA	Water	8290	

Prep Batch: 32034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	HRMS-Sep	
LCS 320-32034/2-A	Lab Control Sample	Total/NA	Water	HRMS-Sep	
MB 320-32034/1-A	Method Blank	Total/NA	Water	HRMS-Sep	

Specialty Organics (Continued)

Prep Batch: 33163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	8290	
680-96898-11 - RA	P-B-12_SHALLOW	Total/NA	Solid	8290	
680-96898-11 - DL	P-B-12_SHALLOW	Total/NA	Solid	8290	
LCS 320-33163/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-33163/1-A	Method Blank	Total/NA	Solid	8290	

Prep Batch: 33530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1	DD-B-7_SS	Total/NA	Solid	HRMS-Sox	
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	HRMS-Sox	
LCS 320-33530/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
MB 320-33530/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	

Analysis Batch: 33676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	8290A	31992
LCS 320-31992/2-A	Lab Control Sample	Total/NA	Water	8290A	31992
MB 320-31992/1-A	Method Blank	Total/NA	Water	8290A	31992

Analysis Batch: 33792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	8290A	33163
LCS 320-33163/2-A	Lab Control Sample	Total/NA	Solid	8290A	33163
MB 320-33163/1-A	Method Blank	Total/NA	Solid	8290A	33163

Analysis Batch: 33810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-32034/2-A	Lab Control Sample	Total/NA	Water	1668C	32034
MB 320-32034/1-A	Method Blank	Total/NA	Water	1668C	32034

Analysis Batch: 34055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11 - RA	P-B-12_SHALLOW	Total/NA	Solid	8290A	33163

Analysis Batch: 34646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11 - DL	P-B-12_SHALLOW	Total/NA	Solid	8290A	33163

Analysis Batch: 35058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	1668C	32034

Analysis Batch: 35524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-33530/2-A	Lab Control Sample	Total/NA	Solid	1668C	33530
MB 320-33530/1-A	Method Blank	Total/NA	Solid	1668C	33530

Analysis Batch: 35526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1	DD-B-7_SS	Total/NA	Solid	1668C	33530
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	1668C	33530

Metals

Prep Batch: 90478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-2	DD-B-7_SUB	Total/NA	Solid	7471B	
680-96898-8	SC-SS-1_SS	Total/NA	Solid	7471B	
680-96898-8 MS	SC-SS-1_SS	Total/NA	Solid	7471B	
680-96898-8 MSD	SC-SS-1_SS	Total/NA	Solid	7471B	
680-96898-9	SC-SS-1_DUP	Total/NA	Solid	7471B	
680-96898-10	SC-SS-2_SS	Total/NA	Solid	7471B	
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	7471B	
680-96898-12	P-B-12_DEEP	Total/NA	Solid	7471B	
LCS 160-90478/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-90478/1-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 90942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	7470A	
680-96898-13 MS	RINSATE	Total/NA	Water	7470A	
680-96898-13 MSD	RINSATE	Total/NA	Water	7470A	
LCS 160-90942/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 160-90942/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 91133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1	DD-B-7_SS	Total/NA	Solid	7471B	
LCS 160-91133/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-91133/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 91139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-2	DD-B-7_SUB	Total/NA	Solid	7471B	90478
680-96898-8	SC-SS-1_SS	Total/NA	Solid	7471B	90478
680-96898-8 MS	SC-SS-1_SS	Total/NA	Solid	7471B	90478
680-96898-8 MSD	SC-SS-1_SS	Total/NA	Solid	7471B	90478
680-96898-9	SC-SS-1_DUP	Total/NA	Solid	7471B	90478
680-96898-10	SC-SS-2_SS	Total/NA	Solid	7471B	90478
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	7471B	90478
680-96898-12	P-B-12_DEEP	Total/NA	Solid	7471B	90478
LCS 160-90478/2-A	Lab Control Sample	Total/NA	Solid	7471B	90478
MB 160-90478/1-A	Method Blank	Total/NA	Solid	7471B	90478

Analysis Batch: 91160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	7470A	90942
680-96898-13 MS	RINSATE	Total/NA	Water	7470A	90942
680-96898-13 MSD	RINSATE	Total/NA	Water	7470A	90942
LCS 160-90942/2-A	Lab Control Sample	Total/NA	Water	7470A	90942
MB 160-90942/1-A	Method Blank	Total/NA	Water	7470A	90942

Analysis Batch: 92199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1	DD-B-7_SS	Total/NA	Solid	7471B	91133
LCS 160-91133/2-A	Lab Control Sample	Total/NA	Solid	7471B	91133
MB 160-91133/1-A	Method Blank	Total/NA	Solid	7471B	91133

Metals (Continued)

Prep Batch: 94980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1	DD-B-7_SS	Total/NA	Solid	3050B	
680-96898-2	DD-B-7_SUB	Total/NA	Solid	3050B	
680-96898-8	SC-SS-1_SS	Total/NA	Solid	3050B	
680-96898-8 MS	SC-SS-1_SS	Total/NA	Solid	3050B	
680-96898-8 MSD	SC-SS-1_SS	Total/NA	Solid	3050B	
680-96898-9	SC-SS-1_DUP	Total/NA	Solid	3050B	
680-96898-10	SC-SS-2_SS	Total/NA	Solid	3050B	
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	3050B	
680-96898-12	P-B-12_DEEP	Total/NA	Solid	3050B	
LCS 160-94980/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-94980/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 94981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1	DD-B-7_SS	Total/NA	Solid	3050B	
680-96898-2	DD-B-7_SUB	Total/NA	Solid	3050B	
680-96898-8	SC-SS-1_SS	Total/NA	Solid	3050B	
680-96898-8 MS	SC-SS-1_SS	Total/NA	Solid	3050B	
680-96898-8 MSD	SC-SS-1_SS	Total/NA	Solid	3050B	
680-96898-9	SC-SS-1_DUP	Total/NA	Solid	3050B	
680-96898-10	SC-SS-2_SS	Total/NA	Solid	3050B	
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	3050B	
680-96898-12	P-B-12_DEEP	Total/NA	Solid	3050B	
LCS 160-94981/12-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 160-94981/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-94981/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 95496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1	DD-B-7_SS	Total/NA	Solid	6020A	94981
680-96898-2	DD-B-7_SUB	Total/NA	Solid	6020A	94981
680-96898-8	SC-SS-1_SS	Total/NA	Solid	6020A	94981
680-96898-8 MS	SC-SS-1_SS	Total/NA	Solid	6020A	94981
680-96898-8 MSD	SC-SS-1_SS	Total/NA	Solid	6020A	94981
680-96898-9	SC-SS-1_DUP	Total/NA	Solid	6020A	94981
680-96898-10	SC-SS-2_SS	Total/NA	Solid	6020A	94981
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	6020A	94981
680-96898-12	P-B-12_DEEP	Total/NA	Solid	6020A	94981
LCS 160-94981/12-A	Lab Control Sample	Total/NA	Solid	6020A	94981
MB 160-94981/1-A	Method Blank	Total/NA	Solid	6020A	94981

Analysis Batch: 95620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-94981/2-A	Lab Control Sample	Total/NA	Solid	6020A	94981

Prep Batch: 96024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	3010A	
LCS 160-96024/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-96024/1-A	Method Blank	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 96025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	3010A	
LCS 160-96025/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-96025/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 96993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	6020A	96024
LCS 160-96024/2-A	Lab Control Sample	Total/NA	Water	6020A	96024
MB 160-96024/1-A	Method Blank	Total/NA	Water	6020A	96024

Analysis Batch: 97021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	6010C	96025
LCS 160-96025/2-A	Lab Control Sample	Total/NA	Water	6010C	96025
MB 160-96025/1-A	Method Blank	Total/NA	Water	6010C	96025

Analysis Batch: 97291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1	DD-B-7_SS	Total/NA	Solid	6010C	94980
680-96898-2	DD-B-7_SUB	Total/NA	Solid	6010C	94980
680-96898-8	SC-SS-1_SS	Total/NA	Solid	6010C	94980
680-96898-8 MS	SC-SS-1_SS	Total/NA	Solid	6010C	94980
680-96898-8 MSD	SC-SS-1_SS	Total/NA	Solid	6010C	94980
680-96898-9	SC-SS-1_DUP	Total/NA	Solid	6010C	94980
680-96898-10	SC-SS-2_SS	Total/NA	Solid	6010C	94980
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	6010C	94980
680-96898-12	P-B-12_DEEP	Total/NA	Solid	6010C	94980
LCS 160-94980/2-A	Lab Control Sample	Total/NA	Solid	6010C	94980
MB 160-94980/1-A	Method Blank	Total/NA	Solid	6010C	94980

Analysis Batch: 98572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1	DD-B-7_SS	Total/NA	Solid	6010C	94980
680-96898-2	DD-B-7_SUB	Total/NA	Solid	6010C	94980
680-96898-8	SC-SS-1_SS	Total/NA	Solid	6010C	94980
680-96898-8 MS	SC-SS-1_SS	Total/NA	Solid	6010C	94980
680-96898-8 MSD	SC-SS-1_SS	Total/NA	Solid	6010C	94980
680-96898-9	SC-SS-1_DUP	Total/NA	Solid	6010C	94980
680-96898-10	SC-SS-2_SS	Total/NA	Solid	6010C	94980
LCS 160-94980/2-A	Lab Control Sample	Total/NA	Solid	6010C	94980
MB 160-94980/1-A	Method Blank	Total/NA	Solid	6010C	94980

Analysis Batch: 99147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	6010C	94980
680-96898-12	P-B-12_DEEP	Total/NA	Solid	6010C	94980

General Chemistry

Analysis Batch: 91069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1	DD-B-7_SS	Total/NA	Solid	Moisture	
680-96898-2	DD-B-7_SUB	Total/NA	Solid	Moisture	
680-96898-4	K53-B-1_SUB	Total/NA	Solid	Moisture	
680-96898-4 MS	K53-B-1_SUB	Total/NA	Solid	Moisture	
680-96898-4 MSD	K53-B-1_SUB	Total/NA	Solid	Moisture	
680-96898-5	K53-B-1_SUB DUP	Total/NA	Solid	Moisture	
680-96898-7	RD-B-1_SUB	Total/NA	Solid	Moisture	
680-96898-8	SC-SS-1_SS	Total/NA	Solid	Moisture	
680-96898-8 MS	SC-SS-1_SS	Total/NA	Solid	Moisture	
680-96898-8 MSD	SC-SS-1_SS	Total/NA	Solid	Moisture	
680-96898-9	SC-SS-1_DUP	Total/NA	Solid	Moisture	
680-96898-10	SC-SS-2_SS	Total/NA	Solid	Moisture	
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	Moisture	
680-96898-12	P-B-12_DEEP	Total/NA	Solid	Moisture	

Analysis Batch: 91124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	300.0	
680-96898-13 MS	RINSATE	Total/NA	Water	300.0	
680-96898-13 MSD	RINSATE	Total/NA	Water	300.0	
LCS 160-91124/10	Lab Control Sample	Total/NA	Water	300.0	
MB 160-91124/9	Method Blank	Total/NA	Water	300.0	

Leach Batch: 97027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1 - DL	DD-B-7_SS	Soluble	Solid	DI Leach	
680-96898-2 - DL	DD-B-7_SUB	Soluble	Solid	DI Leach	
680-96898-2	DD-B-7_SUB	Soluble	Solid	DI Leach	
680-96898-8 - DL3	SC-SS-1_SS	Soluble	Solid	DI Leach	
680-96898-8 - DL2	SC-SS-1_SS	Soluble	Solid	DI Leach	
680-96898-8	SC-SS-1_SS	Soluble	Solid	DI Leach	
680-96898-8 MS - DL2	SC-SS-1_SS	Soluble	Solid	DI Leach	
680-96898-8 MS - DL	SC-SS-1_SS	Soluble	Solid	DI Leach	
680-96898-8 MS	SC-SS-1_SS	Soluble	Solid	DI Leach	
680-96898-8 MSD	SC-SS-1_SS	Soluble	Solid	DI Leach	
680-96898-8 MSD - DL	SC-SS-1_SS	Soluble	Solid	DI Leach	
680-96898-8 MSD - DL2	SC-SS-1_SS	Soluble	Solid	DI Leach	
680-96898-9 - DL3	SC-SS-1_DUP	Soluble	Solid	DI Leach	
680-96898-9 - DL2	SC-SS-1_DUP	Soluble	Solid	DI Leach	
680-96898-9	SC-SS-1_DUP	Soluble	Solid	DI Leach	
680-96898-10 - DL3	SC-SS-2_SS	Soluble	Solid	DI Leach	
680-96898-10 - DL2	SC-SS-2_SS	Soluble	Solid	DI Leach	
680-96898-10	SC-SS-2_SS	Soluble	Solid	DI Leach	
680-96898-11 - DL	P-B-12_SHALLOW	Soluble	Solid	DI Leach	
680-96898-11 - DL2	P-B-12_SHALLOW	Soluble	Solid	DI Leach	
680-96898-12 - DL	P-B-12_DEEP	Soluble	Solid	DI Leach	
680-96898-12	P-B-12_DEEP	Soluble	Solid	DI Leach	
LCS 160-97027/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 160-97027/1-A	Method Blank	Soluble	Solid	DI Leach	

General Chemistry (Continued)

Analysis Batch: 98266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1 - DL	DD-B-7_SS	Soluble	Solid	300.0	97027
680-96898-2	DD-B-7_SUB	Soluble	Solid	300.0	97027
680-96898-2 - DL	DD-B-7_SUB	Soluble	Solid	300.0	97027
680-96898-8	SC-SS-1_SS	Soluble	Solid	300.0	97027
680-96898-8 - DL2	SC-SS-1_SS	Soluble	Solid	300.0	97027
680-96898-8 - DL3	SC-SS-1_SS	Soluble	Solid	300.0	97027
680-96898-8 MS	SC-SS-1_SS	Soluble	Solid	300.0	97027
680-96898-8 MS - DL	SC-SS-1_SS	Soluble	Solid	300.0	97027
680-96898-8 MS - DL2	SC-SS-1_SS	Soluble	Solid	300.0	97027
680-96898-8 MSD	SC-SS-1_SS	Soluble	Solid	300.0	97027
680-96898-8 MSD - DL	SC-SS-1_SS	Soluble	Solid	300.0	97027
680-96898-8 MSD - DL2	SC-SS-1_SS	Soluble	Solid	300.0	97027
680-96898-9	SC-SS-1_DUP	Soluble	Solid	300.0	97027
680-96898-9 - DL2	SC-SS-1_DUP	Soluble	Solid	300.0	97027
680-96898-9 - DL3	SC-SS-1_DUP	Soluble	Solid	300.0	97027
680-96898-10	SC-SS-2_SS	Soluble	Solid	300.0	97027
680-96898-10 - DL2	SC-SS-2_SS	Soluble	Solid	300.0	97027
680-96898-10 - DL3	SC-SS-2_SS	Soluble	Solid	300.0	97027
680-96898-11 - DL	P-B-12_SHALLOW	Soluble	Solid	300.0	97027
680-96898-11 - DL2	P-B-12_SHALLOW	Soluble	Solid	300.0	97027
680-96898-12	P-B-12_DEEP	Soluble	Solid	300.0	97027
680-96898-12 - DL	P-B-12_DEEP	Soluble	Solid	300.0	97027
LCS 160-97027/2-A	Lab Control Sample	Soluble	Solid	300.0	97027
MB 160-97027/1-A	Method Blank	Soluble	Solid	300.0	97027
MRL 160-98266/3	Lab Control Sample	Total/NA	Solid	300.0	

Analysis Batch: 204832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-3	K53-B-1_SS	Total/NA	Solid	Moisture	
680-96898-3 DU	K53-B-1_SS	Total/NA	Solid	Moisture	
680-96898-6	RD-B-1_SS	Total/NA	Solid	Moisture	

Rad

Prep Batch: 90415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	PrecSep-21	
LCS 160-90415/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
MB 160-90415/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Prep Batch: 90417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	PrecSep_0	
LCS 160-90417/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-90417/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Leach Batch: 91143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	Dry and Grind	
680-96898-12	P-B-12_DEEP	Total/NA	Solid	Dry and Grind	

Rad (Continued)

Prep Batch: 92022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	DPS-21	91143
680-96898-12	P-B-12_DEEP	Total/NA	Solid	DPS-21	91143
LCS 160-92022/2-A	Lab Control Sample	Total/NA	Solid	DPS-21	
MB 160-92022/1-A	Method Blank	Total/NA	Solid	DPS-21	

Prep Batch: 92024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	DPS-0	91143
680-96898-12	P-B-12_DEEP	Total/NA	Solid	DPS-0	91143
LCS 160-92024/2-A	Lab Control Sample	Total/NA	Solid	DPS-0	
MB 160-92024/1-A	Method Blank	Total/NA	Solid	DPS-0	

Prep Batch: 94280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	Thin_Layer	91143
680-96898-12	P-B-12_DEEP	Total/NA	Solid	Thin_Layer	91143
LCS 160-94280/2-A	Lab Control Sample	Total/NA	Solid	Thin_Layer	
MB 160-94280/1-A	Method Blank	Total/NA	Solid	Thin_Layer	

Prep Batch: 94333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	Fill_Geo-21	91143
680-96898-12	P-B-12_DEEP	Total/NA	Solid	Fill_Geo-21	91143
LCS 160-94333/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-94333/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Prep Batch: 94337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	Fill_Geo-21	
LCS 160-94337/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-21	
MB 160-94337/1-A	Method Blank	Total/NA	Water	Fill_Geo-21	

Prep Batch: 95516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	Evaporation	
LCS 160-95516/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-95516/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-95516/1-A	Method Blank	Total/NA	Water	Evaporation	

Prep Batch: 97007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-97007/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-97007/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-97007/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 97453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	ExtChrom	91143
680-96898-12	P-B-12_DEEP	Total/NA	Solid	ExtChrom	91143
LCS 160-97453/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	

Rad (Continued)

Prep Batch: 97453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-97453/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 97859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	ExtChrom	91143
680-96898-12	P-B-12_DEEP	Total/NA	Solid	ExtChrom	91143
LCS 160-97859/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-97859/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 100386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-100386/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-100386/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-100386/1-A	Method Blank	Total/NA	Water	ExtChrom	

Client Sample ID: DD-B-7_SS

Lab Sample ID: 680-96898-1

Date Collected: 12/06/13 09:30

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			33530	01/09/14 14:14	TGL	TAL SAC
Total/NA	Analysis	1668C		1	35526	02/05/14 06:10	KSS	TAL SAC
Total/NA	Prep	7471B			91133	12/11/13 13:37	MTS	TAL SL
Total/NA	Analysis	7471B		1	92199	12/15/13 14:16	MTS	TAL SL
Total/NA	Prep	3050B			94981	12/27/13 10:30	WA1	TAL SL
Total/NA	Analysis	6020A		10	95496	12/31/13 03:02	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/09/14 23:10	KLE	TAL SL
Total/NA	Prep	3050B			94980	12/27/13 10:26	WA1	TAL SL
Total/NA	Analysis	6010C		10	98572	01/15/14 16:19	KLE	TAL SL
Total/NA	Analysis	Moisture		1	91069	12/11/13 08:04	SDB	TAL SL
Soluble	Leach	DI Leach	DL		97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	98266	01/13/14 13:09	AMF	TAL SL

Client Sample ID: DD-B-7_SUB

Lab Sample ID: 680-96898-2

Date Collected: 12/06/13 10:40

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90478	12/09/13 13:42	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 13:23	MTS	TAL SL
Total/NA	Prep	3050B			94981	12/27/13 10:30	WA1	TAL SL
Total/NA	Analysis	6020A		10	95496	12/31/13 03:09	CCB	TAL SL
Total/NA	Prep	3050B			94980	12/27/13 10:26	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/09/14 23:14	KLE	TAL SL
Total/NA	Analysis	6010C		10	98572	01/15/14 16:22	KLE	TAL SL
Total/NA	Analysis	Moisture		1	91069	12/11/13 08:04	SDB	TAL SL
Soluble	Leach	DI Leach	DL		97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	98266	01/13/14 13:57	AMF	TAL SL
Soluble	Leach	DI Leach			97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0		1	98266	01/13/14 13:41	AMF	TAL SL

Client Sample ID: K53-B-1_SS

Lab Sample ID: 680-96898-3

Date Collected: 12/05/13 09:45

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			204860	12/11/13 18:54	MW1	TAL DEN
Total/NA	Analysis	8270C		10	205429	12/16/13 15:25	DCK	TAL DEN
Total/NA	Analysis	Moisture		1	204832	12/11/13 12:53	JLH	TAL DEN

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: K53-B-1_SUB

Lab Sample ID: 680-96898-4

Date Collected: 12/05/13 11:00
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			90351	12/08/13 07:30	GLB	TAL SL
Total/NA	Analysis	8260C		1	90521	12/08/13 12:24	GLB	TAL SL
Total/NA	Prep	3550C			204860	12/11/13 18:54	MW1	TAL DEN
Total/NA	Analysis	8270C		1	205429	12/16/13 15:53	DCK	TAL DEN
Total/NA	Analysis	Moisture		1	91069	12/11/13 08:04	SDB	TAL SL

Client Sample ID: K53-B-1_SUB DUP

Lab Sample ID: 680-96898-5

Date Collected: 12/05/13 11:00
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			90351	12/08/13 07:30	GLB	TAL SL
Total/NA	Analysis	8260C		1	90521	12/08/13 14:03	GLB	TAL SL
Total/NA	Prep	3550C			204860	12/11/13 18:54	MW1	TAL DEN
Total/NA	Analysis	8270C		1	205429	12/16/13 17:17	DCK	TAL DEN
Total/NA	Analysis	Moisture		1	91069	12/11/13 08:04	SDB	TAL SL

Client Sample ID: RD-B-1_SS

Lab Sample ID: 680-96898-6

Date Collected: 12/05/13 08:20
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			204860	12/11/13 18:54	MW1	TAL DEN
Total/NA	Analysis	8270C		1	205429	12/16/13 17:45	DCK	TAL DEN
Total/NA	Analysis	Moisture		1	204832	12/11/13 12:53	JLH	TAL DEN

Client Sample ID: RD-B-1_SUB

Lab Sample ID: 680-96898-7

Date Collected: 12/05/13 09:00
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			90351	12/08/13 07:30	GLB	TAL SL
Total/NA	Analysis	8260C		1	90521	12/08/13 14:28	GLB	TAL SL
Total/NA	Prep	3550C			204860	12/11/13 18:54	MW1	TAL DEN
Total/NA	Analysis	8270C		1	205429	12/16/13 18:13	DCK	TAL DEN
Total/NA	Analysis	Moisture		1	91069	12/11/13 08:04	SDB	TAL SL

Client Sample ID: SC-SS-1_SS

Lab Sample ID: 680-96898-8

Date Collected: 12/06/13 12:20

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90478	12/09/13 13:42	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 13:24	MTS	TAL SL
Total/NA	Prep	3050B			94981	12/27/13 10:30	WA1	TAL SL
Total/NA	Analysis	6020A		10	95496	12/31/13 03:15	CCB	TAL SL
Total/NA	Prep	3050B			94980	12/27/13 10:26	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/09/14 23:17	KLE	TAL SL
Total/NA	Analysis	6010C		10	98572	01/15/14 16:26	KLE	TAL SL
Total/NA	Analysis	Moisture		1	91069	12/11/13 08:04	SDB	TAL SL
Soluble	Leach	DI Leach			97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0		1	98266	01/13/14 15:01	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	98266	01/13/14 15:33	AMF	TAL SL
Soluble	Leach	DI Leach	DL3		97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0	DL3	1000	98266	01/13/14 21:39	AMF	TAL SL

Client Sample ID: SC-SS-1_DUP

Lab Sample ID: 680-96898-9

Date Collected: 12/06/13 12:20

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90478	12/09/13 13:42	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 13:34	MTS	TAL SL
Total/NA	Prep	3050B			94981	12/27/13 10:30	WA1	TAL SL
Total/NA	Analysis	6020A		10	95496	12/31/13 03:56	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/09/14 23:32	KLE	TAL SL
Total/NA	Prep	3050B			94980	12/27/13 10:26	WA1	TAL SL
Total/NA	Analysis	6010C		10	98572	01/15/14 16:41	KLE	TAL SL
Total/NA	Analysis	Moisture		1	91069	12/11/13 08:04	SDB	TAL SL
Soluble	Leach	DI Leach	DL3		97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0	DL3	1000	98266	01/14/14 15:44	AMF	TAL SL
Soluble	Leach	DI Leach			97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0		1	98266	01/13/14 17:56	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	98266	01/13/14 18:28	AMF	TAL SL

Client Sample ID: SC-SS-2_SS

Lab Sample ID: 680-96898-10

Date Collected: 12/06/13 12:45

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90478	12/09/13 13:42	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 13:36	MTS	TAL SL
Total/NA	Prep	3050B			94981	12/27/13 10:30	WA1	TAL SL

Client Sample ID: SC-SS-2_SS

Lab Sample ID: 680-96898-10

Date Collected: 12/06/13 12:45

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6020A		10	95496	12/31/13 04:03	CCB	TAL SL
Total/NA	Prep	3050B			94980	12/27/13 10:26	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/09/14 23:36	KLE	TAL SL
Total/NA	Analysis	6010C		10	98572	01/15/14 16:45	KLE	TAL SL
Total/NA	Analysis	Moisture		1	91069	12/11/13 08:04	SDB	TAL SL
Soluble	Leach	DI Leach	DL3		97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0	DL3	1000	98266	01/14/14 16:00	AMF	TAL SL
Soluble	Leach	DI Leach			97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0		1	98266	01/13/14 18:44	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	98266	01/13/14 19:15	AMF	TAL SL

Client Sample ID: P-B-12_SHALLOW

Lab Sample ID: 680-96898-11

Date Collected: 12/05/13 14:30

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			92812	12/18/13 11:29	CNS	TAL SL
Total/NA	Analysis	8270D		1	93362	12/19/13 00:21	JSW	TAL SL
Total/NA	Prep	8290			33163	01/03/14 14:52	TGL	TAL SAC
Total/NA	Analysis	8290A		1	33792	01/10/14 18:04	JRB	TAL SAC
Total/NA	Prep	8290	RA		33163	01/03/14 14:52	TGL	TAL SAC
Total/NA	Analysis	8290A	RA	1	34055	01/15/14 17:51	JRB	TAL SAC
Total/NA	Prep	8290	DL		33163	01/03/14 14:52	TGL	TAL SAC
Total/NA	Analysis	8290A	DL	30	34646	01/24/14 06:19	JRB	TAL SAC
Total/NA	Prep	HRMS-Sox			33530	01/09/14 14:14	TGL	TAL SAC
Total/NA	Analysis	1668C		1	35526	02/05/14 07:25	KSS	TAL SAC
Total/NA	Prep	7471B			90478	12/09/13 13:42	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 13:38	MTS	TAL SL
Total/NA	Prep	3050B			94981	12/27/13 10:30	WA1	TAL SL
Total/NA	Analysis	6020A		10	95496	12/31/13 04:09	CCB	TAL SL
Total/NA	Prep	3050B			94980	12/27/13 10:26	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/09/14 23:40	KLE	TAL SL
Total/NA	Analysis	6010C		10	99147	01/16/14 14:33	KLE	TAL SL
Total/NA	Analysis	Moisture		1	91069	12/11/13 08:04	SDB	TAL SL
Soluble	Leach	DI Leach	DL		97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	98266	01/13/14 19:47	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	98266	01/13/14 20:03	AMF	TAL SL
Total/NA	Leach	Dry and Grind			91143	12/11/13 14:57	DRO	TAL SL
Total/NA	Prep	Thin_Layer			94280	12/23/13 11:18	MJS	TAL SL
Total/NA	Analysis	900.0		1	94348	12/23/13 19:01	RTM	TAL SL
Total/NA	Leach	Dry and Grind			91143	12/11/13 14:57	DRO	TAL SL

Client Sample ID: P-B-12_SHALLOW

Lab Sample ID: 680-96898-11

Date Collected: 12/05/13 14:30

Matrix: Solid

Date Received: 12/07/13 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			92022	12/13/13 15:38	RLS	TAL SL
Total/NA	Analysis	903.0		1	96777	01/08/14 16:22	RTM	TAL SL
Total/NA	Leach	Dry and Grind			91143	12/11/13 14:57	DRO	TAL SL
Total/NA	Prep	DPS-0			92024	12/13/13 14:41	RLS	TAL SL
Total/NA	Analysis	904.0		1	96785	01/08/14 12:16	RTM	TAL SL
Total/NA	Leach	Dry and Grind			91143	12/11/13 14:57	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98430	01/14/14 21:59	EMN	TAL SL
Total/NA	Leach	Dry and Grind			91143	12/11/13 14:57	DRO	TAL SL
Total/NA	Prep	ExtChrom			97859	01/10/14 14:41	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	99264	01/17/14 20:37	LES	TAL SL
Total/NA	Prep	ExtChrom			97453	01/10/14 14:41	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	99579	01/18/14 16:41	MLK	TAL SL

Client Sample ID: P-B-12_DEEP

Lab Sample ID: 680-96898-12

Date Collected: 12/05/13 14:40

Matrix: Solid

Date Received: 12/07/13 10:10

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			90478	12/09/13 13:42	MTS	TAL SL
Total/NA	Analysis	7471B		1	91139	12/11/13 13:40	MTS	TAL SL
Total/NA	Prep	3050B			94981	12/27/13 10:30	WA1	TAL SL
Total/NA	Analysis	6020A		10	95496	12/31/13 04:16	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/09/14 23:44	KLE	TAL SL
Total/NA	Prep	3050B			94980	12/27/13 10:26	WA1	TAL SL
Total/NA	Analysis	6010C		10	99147	01/16/14 14:37	KLE	TAL SL
Total/NA	Analysis	Moisture		1	91069	12/11/13 08:04	SDB	TAL SL
Soluble	Leach	DI Leach			97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0		1	98266	01/13/14 20:51	AMF	TAL SL
Soluble	Leach	DI Leach	DL		97027	01/13/14 09:14	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	98266	01/13/14 21:07	AMF	TAL SL
Total/NA	Leach	Dry and Grind			91143	12/11/13 14:57	DRO	TAL SL
Total/NA	Prep	Thin_Layer			94280	12/23/13 11:24	MJS	TAL SL
Total/NA	Analysis	900.0		1	94348	12/23/13 19:01	RTM	TAL SL
Total/NA	Leach	Dry and Grind			91143	12/11/13 14:57	DRO	TAL SL
Total/NA	Prep	DPS-21			92022	12/13/13 15:38	RLS	TAL SL
Total/NA	Analysis	903.0		1	96777	01/08/14 16:23	RTM	TAL SL
Total/NA	Leach	Dry and Grind			91143	12/11/13 14:57	DRO	TAL SL
Total/NA	Prep	DPS-0			92024	12/13/13 14:41	RLS	TAL SL
Total/NA	Analysis	904.0		1	96785	01/08/14 12:17	RTM	TAL SL
Total/NA	Leach	Dry and Grind			91143	12/11/13 14:57	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98113	01/14/14 22:00	EMN	TAL SL
Total/NA	Leach	Dry and Grind			91143	12/11/13 14:57	DRO	TAL SL

Client Sample ID: P-B-12_DEEP

Lab Sample ID: 680-96898-12

Date Collected: 12/05/13 14:40

Matrix: Solid

Date Received: 12/07/13 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	ExtChrom			97859	01/10/14 14:41	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	99265	01/17/14 20:37	LES	TAL SL
Total/NA	Prep	ExtChrom			97453	01/10/14 14:41	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	99590	01/18/14 16:41	MLK	TAL SL

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13

Date Collected: 12/06/13 12:30

Matrix: Water

Date Received: 12/07/13 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	90507	12/08/13 23:42	JDH	TAL SL
Total/NA	Prep	3520C			204881	12/11/13 18:50	EJP	TAL DEN
Total/NA	Analysis	8270C		1	205553	12/17/13 21:37	MGH	TAL DEN
Total/NA	Prep	8290			31992	12/16/13 16:32	CCC	TAL SAC
Total/NA	Analysis	8290A		1	33676	01/10/14 03:53	JRB	TAL SAC
Total/NA	Prep	HRMS-Sep			32034	12/17/13 10:53	CCC	TAL SAC
Total/NA	Analysis	1668C		1	35058	01/31/14 04:52	KSS	TAL SAC
Total/NA	Prep	7470A			90942	12/10/13 09:56	MTS	TAL SL
Total/NA	Analysis	7470A		1	91160	12/11/13 14:21	MTS	TAL SL
Total/NA	Prep	3010A			96024	01/03/14 17:29	KLE	TAL SL
Total/NA	Analysis	6020A		1	96993	01/09/14 00:53	CCB	TAL SL
Total/NA	Prep	3010A			96025	01/03/14 17:29	KLE	TAL SL
Total/NA	Analysis	6010C		1	97021	01/08/14 13:51	KLE	TAL SL
Total/NA	Analysis	300.0		1	91124	12/07/13 19:51	AMF	TAL SL
Total/NA	Prep	ExtChrom			100386	01/22/14 08:57	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100917	01/23/14 22:10	LES	TAL SL
Total/NA	Prep	PrecSep_0			90417	12/09/13 11:40	RLS	TAL SL
Total/NA	Analysis	904.0		1	95465	12/30/13 11:01	RTM	TAL SL
Total/NA	Prep	PrecSep-21			90415	12/09/13 11:35	RLS	TAL SL
Total/NA	Analysis	903.0		1	95535	12/31/13 07:56	RTM	TAL SL
Total/NA	Prep	Evaporation			95516	12/31/13 12:16	MJS	TAL SL
Total/NA	Analysis	900.0		1	95840	01/02/14 18:30	RTM	TAL SL
Total/NA	Prep	Fill_Geo-21			94337	12/23/13 17:56	MJS	TAL SL
Total/NA	Analysis	901.1		1	97580	01/11/14 04:33	SMP	TAL SL
Total/NA	Prep	ExtChrom			97007	01/09/14 09:41	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	98995	01/16/14 23:39	LES	TAL SL

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-96898-14

Date Collected: 12/06/13 00:00

Matrix: Water

Date Received: 12/07/13 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	90507	12/08/13 23:17	JDH	TAL SL

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96898
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteloil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	8010C, 8020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
						Preservation Code:			N	N	N	N	N	N	N	N	P	J	F	N	N		
DD-B-7_SS	12/6/13	0-0.5	Drainage Ditches	0930	C/G	S				1				1	1							3	120, 6Dg
DD-B-7_SUB	12/6/13	10-15	Drainage Ditches	1040	C/G	S				1				1								2	↓
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	12/6/13 ~~0800~~ 1200	GRI	J Shelkey	12/6/13 1200	GEI
J S Shelkey	12/6/13 1330	GRI	[signature]	12/6/13 1300	GRI
[signature]	12/6/13 1600	TA	[signature] 12.7.13	12/6/13 1330	TA

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: [signature] 12.7.13 1010 TASR

3.4°C / 2.1°C / 2.6°C

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96896
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify), Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	200, 6020_Total_Mass (Anions / Total Uranium)	901.1_Ra - (HOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	J	E	N	N		
K53-B-1_SS	12-5-13	0-0.5	Southeast Property	0945	C/G	S							1									1	120g
K53-B-1_SUB	12-5-13	2-6	Southeast Property	1100	C/G	S		X					1			1	2	1	1			6	encore, 120g
K53-B-1_SUB DUP			Southeast Property		C/G	S							1			1	2	1	1			6	
K53-B-1_SUB MS			Southeast Property		C/G	S							1			1	2	1	1			6	
K53-B-1_SUB MSD			Southeast Property		C/G	S							1			1	2	1	1			6	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 12/6/13 0800	Company: GEI	Received by: J. Shelkey	Date/Time: 12/6/13 0800 Company: GEI
Relinquished by: J. Shelkey	Date/Time: 12/6/13 1330	Company:	Received by:	Date/Time: 12/6/13 1330 Company: TA
Relinquished by:	Date/Time: 12/6/13 1800	Company: TA	Received by: Gil Clark	Date/Time: 12.7.13 1010 Company: TA STL

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

2/9/2014

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelley	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 880-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96598
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309	PO #: 1323080-11-2104			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	WO #:			
Email: abrazell@geiconsultants.com	Project #: 58011884			
Project Name: TIMET	SSOW#:			
Site:				

Analysis Requested

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.1, 904.0, A01R_Th (Radionuclides)	300, 6020, Total_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	N	P	J	F	N	N		
RD-B-1_SS	12-5-13	0-0.5	Southeast Property	0820	C/G	S							1									1	120g
RD-B-1_SUB	12-5-13	10-15	Southeast Property	0900	C/G	S							1			1	2	1	1			6	Encore, 120g
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - NaZSZO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify), Other:

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

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/6/13 0800	GEI		12/6/13 0800	GEI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/6/13 1330			12/6/13 1330	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/6/13 1600	TA		12-7-13 1010	TA STL

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information

Client Contact:	Ms. Andrea Brazell
Company	GEI Consultants, Inc.
Address	1375 Peachtree Street NE Suite A15
City	Atlanta
State, Zip	GA, 30309
Phone	404.592.0074 (direct) / 770.355.9276 (cell)
Email	abrazell@geiconsultants.com
Project Name	TIMET
Site	
Sampler	Jeff Shelkey
Phone	516.317.0245 (cell)
Due Date Requested:	
TAT Requested (days):	28 - Day with Prelims due in 15 days for non-Radiochemistry parameters
PO #:	1323080-11-2104
WO #:	
Project #:	68011884
SSOW#:	
Lab PM	Smith, Kathryn E
E-Mail	kathy.smith@testamericainc.com
Carrier Tracking No(s)	
COC No	680-51812-23158.1
Page	Page 1 of 1
Job #:	680-96898

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - Dl Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Ta (Radionuclides)	300, 6020_Total_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
SC-SS-1_SS	12/6/13	0-6"	Spent Caustic Logoons*	1220	C/G	S	X		1				1									2	120g, 60g
SC-SS-1_SS DUP	↓	↓	Spent Caustic Logoons*	1220	C/G	S			1				1									2	2x120g
SC-SS-1_SS MS	↓	↓	Spent Caustic Logoons*	1220	C/G	S			1				1									2	↓
SC-SS-1_SS MSD	↓	↓	Spent Caustic Logoons*	1220	C/G	S			1				1									2	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
J. Shelkey	12/6/2013 1300	GEI	J. Shelkey	12/6/13 1300	GEI
	12/6/2013	GEI		12/6/13 1330	
	12/6/12 1330			12-7-13 1010	TAST

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Ms. Andrea Brazell	Jeff Sholkey	Smith, Kathryn E		680-51812-23156.1
Company: GEI Consultants, Inc.	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			Job #: 680-96598
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309	PO #: 1323080-11-2104			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	WO #:			
Email: abrazell@geiconsultants.com	Project #: 68011884			
Project Name: TIMET	SSOW#:			
Site:				

Analysis Requested

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9000, 9030, 9040, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8290A (PCB Anions)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:		X	X	N	N	N	N	N	N	N	P	J	F	N	N	X		
SC-SS-2_SS	12/6/13	0-6"	Spent Caustic Lagoons"	1295	C/G	S				1				1								2	120g, 60g
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)
	Other:

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

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners list.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment		
Relinquished by:	Date/Time: 12/6/2013 1300	Company: GEI	Received by:	Date/Time: 12/6/2013 1300	Company: GEI	
Relinquished by:	Date/Time: 12/6/2013 1330	Company: GEI	Received by:	Date/Time: 12/6/13 1334	Company: TA	
Relinquished by:	Date/Time: 12/6/13 1800	Company: TA	Received by:	Date/Time: 12.7.13 1010	Company: TASAV	
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 880-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-96995
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309	PO #: 1323080-11-2104			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	WO #:			
Email: abrazell@geiconsultants.com	Project #: 68011884			
Project Name: TIMET	SSOW#:			
Site:				

Analysis Requested

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

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 9310, 904.0, A01R_Th (Radionuclides)	903, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8260B - SVOCs	6010C, 6020A, 7471B (Details)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	P	J	F	N	N			
P-B-12_SHALLOW	12-5-13	0-5	Pond Areas	1430	C/G	S			1	1	2	1		1	1						^	7	2x500p, 4x120g
P-B-12_DEEP	12-5-13	18-23	Pond Areas	1440	C/G	S			1	1	2			1								5	2x500p, 2x120g, 60g
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners list.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 12/6/13 0800	Company: GEI	Received by:	Date/Time: 12/6/13 0800	Company: GEI	
Relinquished by:	Date/Time: 12/6/13 1330	Company: GEI	Received by:	Date/Time: 12/6/13 1330	Company: TA	
Relinquished by:	Date/Time: 12/6/13 1630	Company: TA	Received by: Gail Clarke	Date/Time: 12-7-13 1010	Company: TA SR	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Ms. Andrea Brazell
Company: GEI Consultants Inc.
Address: 1375 Peachtree Street NE Suite A15
City: Atlanta
State, Zip: GA, 30309
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)
Email: abrazell@geiconsultants.com
Project Name: TIMET
Site:

Sampler: Jeff Shelkey
Phone: 516.317.0245 (cell)

Lab PM: Smith, Kathryn E
E-Mail: kathy.smith@testamericainc.com

Carrier Tracking No(s):

COC No: 680-51811-23157.1
Page: Page 1 of 1
Job #: 680-96898

Due Date Requested:
TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters
PO #: 1323080-11-2104
WO #:
Project #: 68011884
SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	A01R_U - (MOD) Local Method (Radionuclides)	A01R_Th - Standard Target List (Radionuclides)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	904.0 - Standard Target List (Radionuclides)	903.0 - Standard Target List (Radionuclides)	300 - (MOD) Local Method (Anions)	6010C, 6020A, 7470A (Metals)	900.0 - Standard Target List (Radionuclides)	8260C - OLM 4.2 (VOCs)	1668C (PCB Congeners)	8082A (PCB Aroclors)	8270D SVOCs (Project list to include PAHs)	8290 (Dioxins)	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
RINSATE	12/6/13	1230	G	Water	N	N	1	1	1	1	1	1	1	1	3	2	1	2	2	18	2xLg, 5xLp, 250P N, 250p Unpres 500N, 3 Vial

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

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Jeffrey Shelkey	12/6/13 1733	GEI		12/6/13 1430	GEI
Relinquished by:	12/6/13 1800	FX		12.7.13 1010	FX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96898-1

Login Number: 96898

List Source: TestAmerica Savannah

List Number: 1

Creator: Clarke, Jill C

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96898-1

Login Number: 96898
List Number: 1
Creator: Soto, Mayra A

List Source: TestAmerica Denver
List Creation: 12/11/13 11:57 AM

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

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96898-1

Login Number: 96898
List Number: 1
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento
List Creation: 12/07/13 03:06 PM

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.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96898-1

Login Number: 96898
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 12/07/13 12:46 PM

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4, 2.1, 2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-15
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	06-30-14
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	04-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	03-31-14
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14 *
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia DEP	State Program	3	94	06-30-14
West Virginia DHHR	State Program	3	9950C	12-31-13 *
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

Laboratory: TestAmerica Denver

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

* Expired certification is currently pending renewal and is considered valid.

Laboratory: TestAmerica Denver (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-15
A2LA	ISO/IEC 17025		2907.01	10-31-15
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	04-05-14
Arizona	State Program	9	AZ0713	12-19-14
Arkansas DEQ	State Program	6	88-0687	06-01-14
California	ELAP	9	2513	08-31-14
Colorado	State Program	8	N/A	09-30-14
Connecticut	State Program	1	PH-0686	09-30-14
Florida	NELAP	4	E87667	06-30-14
Illinois	NELAP	5	200017	04-30-14
Iowa	State Program	7	370	12-01-14
Kansas	NELAP	7	E-10166	04-30-14
Louisiana	NELAP	6	30785	06-30-14 *
Maine	State Program	1	CO0002	03-03-15
Maryland	State Program	3	268	03-31-14
Minnesota	NELAP	5	8-999-405	12-31-14
Nevada	State Program	9	CO0026	07-31-14
New Hampshire	NELAP	1	205310	04-28-14
New Jersey	NELAP	2	CO004	06-30-14
New Mexico	State Program	6	CO00026	06-30-14
New York	NELAP	2	11964	04-01-14
North Carolina DENR	State Program	4	358	12-31-14
North Dakota	State Program	8	R-034	06-30-14
Oklahoma	State Program	6	8614	08-31-14
Oregon	NELAP	10	CO200001	01-09-15
Pennsylvania	NELAP	3	68-00664	07-30-14 *
South Carolina	State Program	4	72002	06-30-14
Texas	NELAP	6	T104704183-08-TX	10-01-14
USDA	Federal		P330-13-00202	07-02-16
Utah	NELAP	8	CO000262012-4	07-31-14
Virginia	NELAP	3	460232	06-14-14
Washington	State Program	10	C583	08-03-14
West Virginia DEP	State Program	3	354	11-30-14
Wisconsin	State Program	5	999615430	08-31-14
Wyoming (UST)	A2LA	8	2907.01	10-31-15

Laboratory: TestAmerica Sacramento

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	03-31-14
Alaska (UST)	State Program	10	UST-055	02-28-14 *
Arizona	State Program	9	AZ0708	08-11-14
Arkansas DEQ	State Program	6	88-0691	06-17-14
California	State Program	9	2897	01-31-15
Colorado	State Program	8	N/A	08-31-14
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-14
Guam	State Program	9	N/A	08-31-14

* Expired certification is currently pending renewal and is considered valid.

Laboratory: TestAmerica Sacramento (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Hawaii	State Program	9	N/A	01-29-15
Illinois	NELAP	5	200060	03-17-15
Kansas	NELAP	7	E-10375	10-31-14
Louisiana	NELAP	6	30612	06-30-14
Michigan	State Program	5	9947	02-28-14 *
Nebraska	State Program	7	NE-OS-22-13	02-28-14 *
Nevada	State Program	9	CA44	07-31-14
New Jersey	NELAP	2	CA005	06-30-14
New York	NELAP	2	11666	03-31-14
Northern Mariana Islands	State Program	9	MP0007	02-28-14 *
Oregon	NELAP	10	CA200005	01-29-15
Pennsylvania	NELAP	3	68-01272	03-31-14
South Carolina	State Program	4	87014	06-30-14
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-14
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	02-28-15
Washington	State Program	10	C581	05-05-14
West Virginia DHHR	State Program	3	9930C	12-31-14
Wyoming	State Program	8	8TMS-Q	02-28-14 *

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-14
California	NELAP	9	09266CA	03-31-14
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-14
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14
Kentucky (DW)	State Program	4	90125	12-31-14
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	LA140007	12-31-14
Maryland	State Program	3	310	09-30-14
Missouri	State Program	7	780	06-30-14
Nevada	State Program	9	MO000542013-1	07-31-14
New Jersey	NELAP	2	MO002	06-30-14
New Mexico	State Program	6		06-30-10 *
New York	NELAP	2	11616	04-01-14
North Dakota	State Program	8	R207	06-30-14
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	2013-049	08-31-14
Pennsylvania	NELAP	3	68-00540	02-28-14
South Carolina	State Program	4	85002001	06-30-14
Texas	NELAP	6	T104704193-13-6	07-31-14
USDA	Federal		P330-07-00122	01-09-17
USEPA Reg V SDWA	Federal	1	WG-15J	08-30-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Utah	NELAP	8	MO000542013-5	07-31-14
Virginia	NELAP	3	2236	06-14-14
Washington	State Program	10	C592	08-30-14
West Virginia DEP	State Program	3	381	02-28-14 *

* Expired certification is currently pending renewal and is considered valid.

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-96898-11	P-B-12_SHALLOW	112 X
680-96898-12	P-B-12_DEEP	112 X
LCS 160-92022/2-A	Lab Control Sample	109
MB 160-92022/1-A	Method Blank	109

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-96898-13	RINSATE	98.5
LCS 160-90415/2-A	Lab Control Sample	102
MB 160-90415/1-A	Method Blank	93.5

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-96898-11	P-B-12_SHALLOW	112 X	87.9
680-96898-12	P-B-12_DEEP	112 X	84.1
LCS 160-92024/2-A	Lab Control Sample	109	89.7
MB 160-92024/1-A	Method Blank	109	90.8

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-96898-13	RINSATE	98.5	87.9
LCS 160-90417/2-A	Lab Control Sample	102	86.7
MB 160-90417/1-A	Method Blank	93.5	85.6

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Th-229 (30-110)
680-96898-11	P-B-12_SHALLOW	67.8
680-96898-12	P-B-12_DEEP	71.0
LCS 160-97453/2-A	Lab Control Sample	85.0
MB 160-97453/1-A	Method Blank	78.3

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Th-229 (30-110)
680-96898-13	RINSATE	73.1
LCS 160-100386/2-A	Lab Control Sample	76.3
LCSD 160-100386/3-A	Lab Control Sample Dup	77.7
MB 160-100386/1-A	Method Blank	83.1

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	U-232 (30-110)
680-96898-11	P-B-12_SHALLOW	86.7
680-96898-12	P-B-12_DEEP	80.2
LCS 160-97859/2-A	Lab Control Sample	80.8
MB 160-97859/1-A	Method Blank	78.5

Tracer/Carrier Legend

U-232 = Uranium-232

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	U-232 (30-110)
680-96898-13	RINSATE	89.0
LCS 160-97007/2-A	Lab Control Sample	70.2
LCSD 160-97007/3-A	Lab Control Sample Dup	10.8 X
MB 160-97007/1-A	Method Blank	85.8

Tracer/Carrier Legend

U-232 = Uranium-232

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: DD-B-7_SS — Lab Sample ID: 680-96898-1

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		15	TEQ
Total TEQ					pg/g		15	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**1000**	**G**	33	33	pg/g	0.0001	**0.10**	1668C
PCB-81	33	U G	33	33	pg/g	0.0003	0.00	1668C
PCB-105	**3100**	**G**	70	70	pg/g	0.00003	**0.093**	1668C
PCB-114	**100**	**G**	69	69	pg/g	0.00003	**0.0030**	1668C
PCB-118	**5100**	**E B G**	66	66	pg/g	0.00003	**0.15**	1668C
PCB-123	**88**	**G**	65	65	pg/g	0.00003	**0.0026**	1668C
PCB-126	**150**	**G**	75	75	pg/g	0.1	**15**	1668C
PCB-156/157	**1400**	**G**	13	13	pg/g	0.00003	**0.042**	1668C
PCB-167	**500**	**G**	10	10	pg/g	0.00003	**0.015**	1668C
PCB-169	12	U G	12	12	pg/g	0.03	0.00	1668C
PCB-189	**180**		4.7	1.9	pg/g	0.00003	**0.0054**	1668C

Client Sample ID: P-B-12_SHALLOW — Lab Sample ID: 680-96898-11

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total Dioxin/Furan TEQ					pg/g		1100	TEQ
Total PCB TEQ					pg/g		6.6	TEQ
Total TEQ					pg/g		1100	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**850**	**G**	170	170	pg/g	0.0001	**0.085**	1668C
PCB-81	160	U G	160	160	pg/g	0.0003	0.00	1668C
PCB-105	**26000**	**E G**	520	520	pg/g	0.00003	**0.78**	1668C
PCB-114	**1100**	**G**	490	490	pg/g	0.00003	**0.033**	1668C
PCB-118	**57000**	**E B G**	480	480	pg/g	0.00003	**1.7**	1668C
PCB-123	**770**	**G**	480	480	pg/g	0.00003	**0.023**	1668C
PCB-126	600	U G	600	600	pg/g	0.1	0.00	1668C
PCB-156/157	**9300**	**E G**	88	88	pg/g	0.00003	**0.28**	1668C
PCB-167	**2900**	**G**	67	67	pg/g	0.00003	**0.087**	1668C
PCB-169	**120**	**q G**	83	83	pg/g	0.03	**3.6**	1668C
PCB-189	**1000**	**G**	12	12	pg/g	0.00003	**0.030**	1668C
2,3,7,8-TCDD	**31**		2.1	0.26	pg/g	1	**31**	8290A
1,2,3,7,8-PeCDD	**91**		10	1.4	pg/g	1	**91**	8290A
1,2,3,7,8-PeCDF	**1200**		10	5.1	pg/g	0.03	**36**	8290A
2,3,4,7,8-PeCDF	**670**		10	5.3	pg/g	0.3	**200**	8290A
1,2,3,4,7,8-HxCDD	**62**		10	0.27	pg/g	0.1	**6.2**	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Client Sample ID: P-B-12_SHALLOW (Continued)

Lab Sample ID: 680-96898-11

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
1,2,3,6,7,8-HxCDD	140		10	0.24	pg/g	0.1	14	8290A
1,2,3,7,8,9-HxCDD	130		10	0.22	pg/g	0.1	13	8290A
1,2,3,4,7,8-HxCDF	2800	B	10	4.0	pg/g	0.1	280	8290A
1,2,3,6,7,8-HxCDF	1700	B	10	3.4	pg/g	0.1	170	8290A
1,2,3,7,8,9-HxCDF	240		10	4.0	pg/g	0.1	24	8290A
2,3,4,6,7,8-HxCDF	550		10	3.7	pg/g	0.1	55	8290A
1,2,3,4,6,7,8-HpCDD	510	B	10	0.90	pg/g	0.01	5.1	8290A
1,2,3,4,7,8,9-HpCDF	2900		10	4.7	pg/g	0.01	29	8290A
OCDD	810	B	21	0.26	pg/g	0.0003	0.24	8290A
1,2,3,4,6,7,8-HpCDF - DL	7200	B	310	62	pg/g	0.01	72	8290A
OCDF - DL	89000	B	630	380	pg/g	0.0003	27	8290A
2,3,7,8-TCDF - RA	720	G	12	12	pg/g	0.1	72	8290A

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	2.0	U	19	2.0	pg/L	0.0001	0.00	1668C
PCB-81	1.9	U	19	1.9	pg/L	0.0003	0.00	1668C
PCB-105	3.0	J	19	1.8	pg/L	0.00003	0.000090	1668C
PCB-114	1.7	U	19	1.7	pg/L	0.00003	0.00	1668C
PCB-118	6.1	J B	19	1.6	pg/L	0.00003	0.00018	1668C
PCB-123	1.6	U	19	1.6	pg/L	0.00003	0.00	1668C
PCB-126	2.2	U	19	2.2	pg/L	0.1	0.00	1668C
PCB-156/157	1.9	U	38	1.9	pg/L	0.00003	0.00	1668C
PCB-167	1.4	U	19	1.4	pg/L	0.00003	0.00	1668C
PCB-169	2.0	U	19	2.0	pg/L	0.03	0.00	1668C
PCB-189	2.3	U	19	2.3	pg/L	0.00003	0.00	1668C
2,3,7,8-TCDD	0.15	U	9.8	0.15	pg/L	1	0.00	8290A
2,3,7,8-TCDF	0.091	U	9.8	0.091	pg/L	0.1	0.00	8290A
1,2,3,7,8-PeCDD	0.20	U	49	0.20	pg/L	1	0.00	8290A
1,2,3,7,8-PeCDF	0.14	U	49	0.14	pg/L	0.03	0.00	8290A
2,3,4,7,8-PeCDF	0.14	U	49	0.14	pg/L	0.3	0.00	8290A
1,2,3,4,7,8-HxCDD	0.12	U	49	0.12	pg/L	0.1	0.00	8290A
1,2,3,6,7,8-HxCDD	0.11	U	49	0.11	pg/L	0.1	0.00	8290A
1,2,3,7,8,9-HxCDD	0.099	U	49	0.099	pg/L	0.1	0.00	8290A
1,2,3,4,7,8-HxCDF	0.42	J q B	49	0.095	pg/L	0.1	0.042	8290A
1,2,3,6,7,8-HxCDF	0.19	U	49	0.19	pg/L	0.1	0.00	8290A
1,2,3,7,8,9-HxCDF	0.097	U	49	0.097	pg/L	0.1	0.00	8290A
2,3,4,6,7,8-HxCDF	0.090	U	49	0.090	pg/L	0.1	0.00	8290A
1,2,3,4,6,7,8-HpCDD	0.87	J B	49	0.17	pg/L	0.01	0.0087	8290A
1,2,3,4,6,7,8-HpCDF	1.3	J B	49	0.14	pg/L	0.01	0.013	8290A
1,2,3,4,7,8,9-HpCDF	0.16	U	49	0.16	pg/L	0.01	0.00	8290A
OCDD	9.0	J B	98	0.16	pg/L	0.0003	0.0027	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: RINSATE (Continued)

Lab Sample ID: 680-96898-13

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
OCDF	2.1	J q B	98	0.15	pg/L	0.0003	0.00063	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-202L	PCB-3L	PCB-118L	PCB-126L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)
680-96898-1	DD-B-7_SS	43	69	96	92	88	43	93	103
680-96898-11	P-B-12_SHALLOW	37	54	63	62	65	41	64	68
MB 320-33530/1-A	Method Blank	43	55	63	62	74	47	62	69

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-206L	PCB-169L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(5-145)	(5-145)	(10-145)	(5-145)	(10-145)	(10-145)
680-96898-1	DD-B-7_SS	87	104	83	59	77	51	98	94
680-96898-11	P-B-12_SHALLOW	55	63	63	50	59	40	62	62
MB 320-33530/1-A	Method Blank	90	74	52	55	61	44	70	67

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)	(10-145)
680-96898-1	DD-B-7_SS	70	88	97	92	36	66	98	97
680-96898-11	P-B-12_SHALLOW	46	62	64	64	35	47	70	70
MB 320-33530/1-A	Method Blank	81	73	65	87	38	48	59	59

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)
680-96898-1	DD-B-7_SS	90	72
680-96898-11	P-B-12_SHALLOW	57	50
MB 320-33530/1-A	Method Blank	83	49

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-202L = PCB-202L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-206L = PCB-206L
PCB-169L = PCB-169L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-33530/2-A	Lab Control Sample	39	44	47	47	42	47	50	56

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-33530/2-A	Lab Control Sample	61	70	41	46	47	35	57	54

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-33530/2-A	Lab Control Sample	65	58	48	68	36	37 *	43	43

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-205L	PCB-155L						
Lab Sample ID	Client Sample ID	(40-145)	(40-145)						
LCS 320-33530/2-A	Lab Control Sample	66	40						

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-1L	PCB-3L	PCB-4L	PCB-15L	PCB-19L	PCB-37L	PCB-54L	PCB-77L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(10-145)
680-96898-13	RINSATE	49	57	57	71	59	68	49	75

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-1L (5-145)	PCB-3L (5-145)	PCB-4L (5-145)	PCB-15L (5-145)	PCB-19L (5-145)	PCB-37L (5-145)	PCB-54L (5-145)	PCB-77L (10-145)
MB 320-32034/1-A	Method Blank	60	66	71	80	80	75	71	79

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-81L (10-145)	PCB-104L (10-145)	PCB-105L (10-145)	PCB-114L (10-145)	PCB-118L (10-145)	PCB-123L (10-145)	PCB-126L (10-145)	PCB-155L (10-145)
680-96898-13	RINSATE	73	57	72	72	74	73	72	62
MB 320-32034/1-A	Method Blank	77	71	81	80	81	81	78	72

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	CB-156L/15 (10-145)	PCB-167L (10-145)	PCB-169L (10-145)	PCB-188L (10-145)	PCB-189L (10-145)	PCB-202L (10-145)	PCB-205L (10-145)	PCB-206L (10-145)
680-96898-13	RINSATE	79	79	76	66	74	77	84	74
MB 320-32034/1-A	Method Blank	79	80	73	96	82	102	84	81

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-208L (10-145)	PCB-209L (10-145)						
680-96898-13	RINSATE	87	79						
MB 320-32034/1-A	Method Blank	95	75						

Surrogate Legend

PCB-1L = PCB-1L
PCB-3L = PCB-3L
PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-19L = PCB-19L
PCB-37L = PCB-37L
PCB-54L = PCB-54L
PCB-77L = PCB-77L
PCB-81L = PCB-81L
PCB-104L = PCB-104L
PCB-105L = PCB-105L
PCB-114L = PCB-114L
PCB-118L = PCB-118L
PCB-123L = PCB-123L
PCB-126L = PCB-126L
PCB-155L = PCB-155L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-169L = PCB-169L
PCB-188L = PCB-188L
PCB-189L = PCB-189L
PCB-202L = PCB-202L
PCB-205L = PCB-205L
PCB-206L = PCB-206L
PCB-208L = PCB-208L
PCB-209L = PCB-209L

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-32034/2-A	Lab Control Sample	59	71	79	78	57	79	76	99

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-32034/2-A	Lab Control Sample	71	79	69	67	95	63	77	77

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-32034/2-A	Lab Control Sample	73	79	78	92	49	66	76	75

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-205L	PCB-155L						
Lab Sample ID	Client Sample ID	(40-145)	(40-145)						
LCS 320-32034/2-A	Lab Control Sample	82	71						

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		HxCDD2	TCDD	PeCDD	HpCDF1	PeCDF1	TCDF	HpCDD	OCDD
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
680-96898-11	P-B-12_SHALLOW	68	60	60	64	62		63	66

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		HxCDD2	TCDD	PeCDD	HpCDF1	PeCDF1	TCDF	HpCDD	OCDD
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
680-96898-11 - RA	P-B-12_SHALLOW						63		
680-96898-11 - DL	P-B-12_SHALLOW				54				47
LCS 320-33163/2-A	Lab Control Sample	78	69	70	71	70	69	70	69
MB 320-33163/1-A	Method Blank	79	69	68	72	69	70	70	68

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		HxCDF1							
Lab Sample ID	Client Sample ID	(40-135)							
680-96898-11	P-B-12_SHALLOW	63							
680-96898-11 - RA	P-B-12_SHALLOW								
680-96898-11 - DL	P-B-12_SHALLOW								
LCS 320-33163/2-A	Lab Control Sample	69							
MB 320-33163/1-A	Method Blank	72							

Surrogate Legend

HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
TCDF = 13C-2,3,7,8-TCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		TCDD	TCDF	PeCDD	PeCDF1	HxCDD2	HxCDF1	HpCDD	HpCDF1
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
680-96898-13	RINSATE	84	86	85	86	95	88	90	91
LCS 320-31992/2-A	Lab Control Sample	86	88	89	89	91	87	90	91
MB 320-31992/1-A	Method Blank	85	88	87	87	93	88	86	88

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		OCDD							
Lab Sample ID	Client Sample ID	(40-135)							
680-96898-13	RINSATE	92							
LCS 320-31992/2-A	Lab Control Sample	93							
MB 320-31992/1-A	Method Blank	87							

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

OCDD = 13C-OCDD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 680-97124-1
Client Project/Site: TIMET

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Attn: Mr. Marc Chartier

Kathryn Smith

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.

Job ID: 680-97124-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: GEI Consultants, Inc.

Project: TIMET

Report Number: 680-97124-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 12/14/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 2.8º C, 3.2º C and 3.5º C.

SEMIVOLATILE ORGANIC COMPOUNDS (SOLID)

Sample P-B-10_SS (680-97124-13) was analyzed for Semivolatile Organic Compounds (Solid) in accordance with EPA SW846 Method 8270D. The samples were prepared on 12/18/2013 and analyzed on 12/19/2013.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (AQUEOUS)

Sample RINSATE (680-97124-15) was analyzed for Semivolatile Organic Compounds (Aqueous) in accordance with EPA SW846 Method 8270D. The samples were prepared on 12/20/2013 and analyzed on 12/31/2013.

Fluoranthene failed the recovery criteria high for LCS 160-93558/2-A.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Samples P-B-11_SS (680-97124-11) and P-B-10_SS (680-97124-13) were analyzed for chlorinated biphenyl congeners in accordance with epa method 1668C. The samples were prepared on 01/20/2014 and 01/24/2014 and analyzed on 02/04/2014 and 02/07/2014.

Several analytes were detected in method blank MB 320-34244/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. PCB-1 was detected in method blank MB 320-34661/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. PCB-44/47/65, PCB-52, Polychlorinated biphenyls, Total, Total Monochlorobiphenyls and Total Tetrachlorobiphenyls were detected in method blank MB 320-34661/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: P-B-11_SS (680-97124-11). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate

Job ID: 680-97124-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The concentration of the PCB 209 analyte associated with the following sample exceeded the instrument calibration range: P-B-10_SS (680-97124-13). This analyte has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Sample RINSATE (680-97124-15) was analyzed for chlorinated biphenyl congeners in accordance with EPA method 1668C. The samples were prepared on 01/04/2014 and analyzed on 02/06/2014.

PCB-105 was detected in method blank MB 320-33192/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 320-33192/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

DIOXINS AND FURANS

Sample P-B-10_SS (680-97124-13) was analyzed for dioxins and furans in accordance with EPA Method 8290A. The samples were prepared on 01/24/2014 and analyzed on 02/01/2014 and 02/07/2014.

Sample P-B-10_SS (680-97124-13) was prepped outside of hold time.

No difficulties were encountered during the dioxins and furans analysis.

All quality control parameters were within the acceptance limits.

DIOXINS AND FURANS

Sample RINSATE (680-97124-15) was analyzed for dioxins and furans in accordance with EPA SW-846 8290A. The samples were prepared on 12/16/2013 and analyzed on 01/10/2014.

Several analytes were detected in method blank MB 320-31992/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the dioxins and furans analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Samples PP-B-1 0-4 (680-97124-1), PP-B-1 11-13 (680-97124-2), PP-B-2 0-4 (680-97124-3), PP-B-2 7-15 (680-97124-4), FM-B-1 0-2 (680-97124-5), FM-B-1 2-4 (680-97124-6), FM-B-1 13-15 (680-97124-7), FM-B-2 0-2 (680-97124-8), FM-B-2 2-4 (680-97124-9), FM-B-2 13-15 (680-97124-10), P-B-11_SS (680-97124-11), P-B-11_SUB (680-97124-12), P-B-10_SS (680-97124-13) and P-B-10_SUB (680-97124-14) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/27/2013 and analyzed on 01/10/2014 and 01/14/2014.

Job ID: 680-97124-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Several analytes failed the recovery criteria low for the MS of sample PP-B-1 0-4MS (680-97124-1) in batch 160-98404. Aluminum, Iron, Titanium and Sodium failed the recovery criteria high.

For the MSD of sample PP-B-1 0-4MSD (680-97124-1) in batch 160-98404, Antimony, Calcium and Potassium failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, Magnesium exceeded the RPD limit.

Samples PP-B-1 0-4 (680-97124-1)[10X], PP-B-1 0-4 (680-97124-1)[5X], PP-B-1 11-13 (680-97124-2)[10X], PP-B-1 11-13 (680-97124-2)[5X], PP-B-2 0-4 (680-97124-3)[10X], PP-B-2 0-4 (680-97124-3)[5X], PP-B-2 7-15 (680-97124-4)[10X], PP-B-2 7-15 (680-97124-4)[5X], FM-B-1 0-2 (680-97124-5)[10X], FM-B-1 0-2 (680-97124-5)[5X], FM-B-1 2-4 (680-97124-6)[10X], FM-B-1 2-4 (680-97124-6)[5X], FM-B-1 13-15 (680-97124-7)[10X], FM-B-1 13-15 (680-97124-7)[5X], FM-B-2 0-2 (680-97124-8)[10X], FM-B-2 0-2 (680-97124-8)[5X], FM-B-2 2-4 (680-97124-9)[10X], FM-B-2 2-4 (680-97124-9)[5X], FM-B-2 13-15 (680-97124-10)[10X], FM-B-2 13-15 (680-97124-10)[5X], P-B-11_SS (680-97124-11)[10X], P-B-11_SS (680-97124-11)[5X], P-B-11_SUB (680-97124-12)[10X], P-B-11_SUB (680-97124-12)[5X], P-B-10_SS (680-97124-13)[10X], P-B-10_SS (680-97124-13)[5X], P-B-10_SUB (680-97124-14)[10X] and P-B-10_SUB (680-97124-14)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Sample RINSATE (680-97124-15) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 01/03/2014 and analyzed on 01/08/2014.

Zinc was detected in method blank MB 160-96025/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples PP-B-1 0-4 (680-97124-1), PP-B-1 11-13 (680-97124-2), PP-B-2 0-4 (680-97124-3), PP-B-2 7-15 (680-97124-4), FM-B-1 0-2 (680-97124-5), FM-B-1 2-4 (680-97124-6), FM-B-1 13-15 (680-97124-7), FM-B-2 0-2 (680-97124-8), FM-B-2 2-4 (680-97124-9), FM-B-2 13-15 (680-97124-10), P-B-11_SS (680-97124-11), P-B-11_SUB (680-97124-12), P-B-10_SS (680-97124-13) and P-B-10_SUB (680-97124-14) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 12/27/2013 and analyzed on 01/03/2014.

Niobium failed the recovery criteria low for the MS/MSD of sample PP-B-1 0-4MS/MSD (680-97124-1) in batch 160-95862.

Samples PP-B-1 0-4 (680-97124-1)[10X], PP-B-1 11-13 (680-97124-2)[10X], PP-B-2 0-4 (680-97124-3)[10X], PP-B-2 7-15 (680-97124-4)[10X], FM-B-1 0-2 (680-97124-5)[10X], FM-B-1 2-4 (680-97124-6)[10X], FM-B-1 13-15 (680-97124-7)[10X], FM-B-2 0-2 (680-97124-8)[10X], FM-B-2 0-2 (680-97124-8)[50X], FM-B-2 2-4 (680-97124-9)[10X], FM-B-2 13-15 (680-97124-10)[10X], P-B-11_SS (680-97124-11)[10X], P-B-11_SUB (680-97124-12)[10X], P-B-10_SS (680-97124-13)[10X] and P-B-10_SUB (680-97124-14)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Sample RINSATE (680-97124-15) was analyzed for Metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 01/03/2014 and analyzed on 01/09/2014.

No difficulties were encountered during the metals analysis.

Job ID: 680-97124-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample RINSATE (680-97124-15) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 01/09/2014.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples PP-B-1 0-4 (680-97124-1), PP-B-1 11-13 (680-97124-2), PP-B-2 0-4 (680-97124-3), PP-B-2 7-15 (680-97124-4), FM-B-1 0-2 (680-97124-5), FM-B-1 2-4 (680-97124-6), FM-B-1 13-15 (680-97124-7), FM-B-2 0-2 (680-97124-8), FM-B-2 2-4 (680-97124-9), FM-B-2 13-15 (680-97124-10), P-B-11_SS (680-97124-11), P-B-11_SUB (680-97124-12), P-B-10_SS (680-97124-13) and P-B-10_SUB (680-97124-14) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 12/19/2013 and analyzed on 12/19/2013 and 12/20/2013.

Sample P-B-10_SS (680-97124-13)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

ANIONS BY IC

Samples PP-B-1 0-4 (680-97124-1), PP-B-1 11-13 (680-97124-2), PP-B-2 0-4 (680-97124-3), PP-B-2 7-15 (680-97124-4), FM-B-1 0-2 (680-97124-5), FM-B-1 2-4 (680-97124-6), FM-B-1 13-15 (680-97124-7), FM-B-2 0-2 (680-97124-8), FM-B-2 2-4 (680-97124-9), FM-B-2 13-15 (680-97124-10), P-B-11_SS (680-97124-11), P-B-11_SUB (680-97124-12), P-B-10_SS (680-97124-13) and P-B-10_SUB (680-97124-14) were analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were leached on 01/14/2014 and analyzed on 01/14/2014 and 01/15/2014.

The following samples were not prepped within the 28 day hold: (680-97124-2 MS), (680-97124-2 MSD), (680-97124-11 MS), FM-B-1 0-2 (680-97124-5), FM-B-1 13-15 (680-97124-7), FM-B-1 2-4 (680-97124-6), FM-B-2 0-2 (680-97124-8), FM-B-2 13-15 (680-97124-10), FM-B-2 2-4 (680-97124-9), P-B-10_SS (680-97124-13), P-B-10_SUB (680-97124-14), P-B-11_SS (680-97124-11), P-B-11_SUB (680-97124-12), PP-B-1 0-4 (680-97124-1), PP-B-1 11-13 (680-97124-2), PP-B-2 0-4 (680-97124-3), PP-B-2 7-15 (680-97124-4) The samples were analyzed within 2 times hold.

Samples PP-B-1 0-4 (680-97124-1)[20X], PP-B-1 11-13 (680-97124-2)[20X], PP-B-2 0-4 (680-97124-3)[100X], PP-B-2 0-4 (680-97124-3)[20X], PP-B-2 7-15 (680-97124-4)[100X], PP-B-2 7-15 (680-97124-4)[20X], FM-B-1 0-2 (680-97124-5)[20X], FM-B-2 0-2 (680-97124-8)[20X], FM-B-2 2-4 (680-97124-9)[20X], FM-B-2 13-15 (680-97124-10)[20X], P-B-11_SS (680-97124-11)[20X], P-B-11_SUB (680-97124-12)[20X], P-B-10_SS (680-97124-13)[100X], P-B-10_SS (680-97124-13)[20X], P-B-10_SUB (680-97124-14)[100X] and P-B-10_SUB (680-97124-14)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

ANIONS BY IC

Sample RINSATE (680-97124-15) was analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were analyzed on 12/14/2013 and 12/16/2013.

Chloride failed the recovery criteria high for the MS/MSD of sample RINSATEMS/MSD (680-97124-15) in batch 160-92246.

No other difficulties were encountered during the Anions analysis.

Job ID: 680-97124-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/MOISTURE

Samples PP-B-1 0-4 (680-97124-1), PP-B-1 11-13 (680-97124-2), PP-B-2 0-4 (680-97124-3), PP-B-2 7-15 (680-97124-4), FM-B-1 0-2 (680-97124-5), FM-B-1 2-4 (680-97124-6), FM-B-1 13-15 (680-97124-7), FM-B-2 0-2 (680-97124-8), FM-B-2 2-4 (680-97124-9), FM-B-2 13-15 (680-97124-10), P-B-11_SS (680-97124-11), P-B-11_SUB (680-97124-12), P-B-10_SS (680-97124-13) and P-B-10_SUB (680-97124-14) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 12/20/2013.

No difficulties were encountered during the % solids/moisture analysis.

All quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Samples PP-B-1 0-4 (680-97124-1), PP-B-1 11-13 (680-97124-2), PP-B-2 0-4 (680-97124-3), PP-B-2 7-15 (680-97124-4), FM-B-1 0-2 (680-97124-5), FM-B-1 2-4 (680-97124-6), FM-B-1 13-15 (680-97124-7), FM-B-2 0-2 (680-97124-8), FM-B-2 2-4 (680-97124-9), FM-B-2 13-15 (680-97124-10), P-B-10_SS (680-97124-13) and P-B-10_SUB (680-97124-14) were analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were leached on 12/19/2013, and prepared and analyzed on 01/08/2014.

Gross Beta was detected in method blank MB 160-96736/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the radioactivity analysis.

All other quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Sample RINSATE (680-97124-15) was analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were prepared on 01/21/2014 and analyzed on 01/27/2014.

No difficulties were encountered during the gross alpha & beta analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226 AND OTHER GAMMA EMITTERS (GS)

Samples PP-B-1 0-4 (680-97124-1), PP-B-1 11-13 (680-97124-2), PP-B-2 0-4 (680-97124-3), PP-B-2 7-15 (680-97124-4), FM-B-1 0-2 (680-97124-5), FM-B-1 2-4 (680-97124-6), FM-B-1 13-15 (680-97124-7), FM-B-2 0-2 (680-97124-8), FM-B-2 2-4 (680-97124-9), FM-B-2 13-15 (680-97124-10), P-B-10_SS (680-97124-13) and P-B-10_SUB (680-97124-14) were analyzed for Radium-226 and other gamma emitters (GS) in accordance with EPA Method 901.1. The samples were leached on 12/19/2013, prepared on 12/23/2013 and analyzed on 01/14/2014.

Americium-241, Bismuth-210M, Cobalt-57, Protactinium-231, Protactinium-234, Thorium-227 and Thorium-234 exceeded the RPD limit for the duplicate of sample PP-B-1 0-4DU (680-97124-1). Refer to the QC report for details.

No other difficulties were encountered during the radium-226 analysis.

All other quality control parameters were within the acceptance limits.

GAMMA EMITTERS

Sample RINSATE (680-97124-15) was analyzed for Gamma Emitters in accordance with 901.1. The samples were prepared on 12/27/2013 and analyzed on 01/17/2014.

Several analytes exceeded the RPD limit for the duplicate of sample RINSATEDU (680-97124-15).

Job ID: 680-97124-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No other difficulties were encountered during the Gamma Emitters analysis.

All other quality control parameters were within the acceptance limits.

RADIUM-226 (GFPC)

Samples PP-B-1 0-4 (680-97124-1), PP-B-1 11-13 (680-97124-2), PP-B-2 0-4 (680-97124-3), PP-B-2 7-15 (680-97124-4), FM-B-1 0-2 (680-97124-5), FM-B-1 2-4 (680-97124-6), FM-B-1 13-15 (680-97124-7), FM-B-2 0-2 (680-97124-8), FM-B-2 2-4 (680-97124-9), FM-B-2 13-15 (680-97124-10), P-B-10_SS (680-97124-13) and P-B-10_SUB (680-97124-14) were analyzed for Radium-226 (GFPC) in accordance with EPA Method 903.0. The samples were leached on 12/19/2013, prepared on 12/26/2013 and analyzed on 01/20/2014.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226

Sample RINSATE (680-97124-15) was analyzed for Radium-226 in accordance with EPA Method 903.0. The samples were prepared on 12/16/2013 and analyzed on 01/08/2014.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Samples PP-B-1 0-4 (680-97124-1), PP-B-1 11-13 (680-97124-2), PP-B-2 0-4 (680-97124-3), PP-B-2 7-15 (680-97124-4), FM-B-1 0-2 (680-97124-5), FM-B-1 2-4 (680-97124-6), FM-B-1 13-15 (680-97124-7), FM-B-2 0-2 (680-97124-8), FM-B-2 2-4 (680-97124-9), FM-B-2 13-15 (680-97124-10), P-B-10_SS (680-97124-13) and P-B-10_SUB (680-97124-14) were analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were leached on 12/19/2013, prepared on 12/26/2013 and analyzed on 01/17/2014.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Sample RINSATE (680-97124-15) was analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were prepared on 12/16/2013 and analyzed on 01/08/2014.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC THORIUM

Samples PP-B-1 0-4 (680-97124-1), PP-B-1 11-13 (680-97124-2), PP-B-2 0-4 (680-97124-3), PP-B-2 7-15 (680-97124-4), FM-B-1 0-2 (680-97124-5), FM-B-1 2-4 (680-97124-6), FM-B-1 13-15 (680-97124-7), FM-B-2 0-2 (680-97124-8), FM-B-2 2-4 (680-97124-9), FM-B-2 13-15 (680-97124-10), P-B-10_SS (680-97124-13) and P-B-10_SUB (680-97124-14) were analyzed for Isotopic Thorium in accordance with A01R_Th. The samples were leached on 12/19/2013, prepared on 01/14/2014 and analyzed on 01/21/2014.

Thorium-230 was detected in method blank MB 160-98058/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the thorium analysis.

All other quality control parameters were within the acceptance limits.

THORIUM

Job ID: 680-97124-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Sample RINSATE (680-97124-15) was analyzed for Thorium in accordance with A01R_Th. The samples were prepared on 01/22/2014 and analyzed on 01/23/2014.

No difficulties were encountered during the Thorium analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC URANIUM

Samples PP-B-1 0-4 (680-97124-1), PP-B-1 11-13 (680-97124-2), PP-B-2 0-4 (680-97124-3), PP-B-2 7-15 (680-97124-4), FM-B-1 0-2 (680-97124-5), FM-B-1 2-4 (680-97124-6), FM-B-1 13-15 (680-97124-7), FM-B-2 0-2 (680-97124-8), FM-B-2 2-4 (680-97124-9), FM-B-2 13-15 (680-97124-10), P-B-10_SS (680-97124-13) and P-B-10_SUB (680-97124-14) were analyzed for Isotopic Uranium in accordance with A01R_U. The samples were leached on 12/19/2013, prepared on 01/14/2014 and analyzed on 01/21/2014.

Uranium-235/236 exceeded the RPD limit for the duplicate of sample PP-B-1 0-4DU (680-97124-1).

No other difficulties were encountered during the uranium analysis.

All other quality control parameters were within the acceptance limits.

URANIUM

Sample RINSATE (680-97124-15) was analyzed for Uranium in accordance with A01R_U. The samples were prepared on 01/09/2014 and analyzed on 01/16/2014.

No difficulties were encountered during the Uranium analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-97124-1	PP-B-1 0-4	Solid	12/12/13 08:35	12/14/13 12:00
680-97124-2	PP-B-1 11-13	Solid	12/12/13 09:20	12/14/13 12:00
680-97124-3	PP-B-2 0-4	Solid	12/12/13 10:20	12/14/13 12:00
680-97124-4	PP-B-2 7-15	Solid	12/12/13 11:00	12/14/13 12:00
680-97124-5	FM-B-1 0-2	Solid	12/12/13 12:00	12/14/13 12:00
680-97124-6	FM-B-1 2-4	Solid	12/12/13 12:15	12/14/13 12:00
680-97124-7	FM-B-1 13-15	Solid	12/12/13 12:50	12/14/13 12:00
680-97124-8	FM-B-2 0-2	Solid	12/12/13 13:40	12/14/13 12:00
680-97124-9	FM-B-2 2-4	Solid	12/12/13 13:55	12/14/13 12:00
680-97124-10	FM-B-2 13-15	Solid	12/12/13 14:45	12/14/13 12:00
680-97124-11	P-B-11_SS	Solid	12/11/13 12:15	12/14/13 12:00
680-97124-12	P-B-11_SUB	Solid	12/11/13 13:15	12/14/13 12:00
680-97124-13	P-B-10_SS	Solid	12/11/13 10:10	12/14/13 12:00
680-97124-14	P-B-10_SUB	Solid	12/11/13 11:40	12/14/13 12:00
680-97124-15	RINSATE	Water	12/13/13 12:00	12/14/13 12:00

Method Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
1668C	Chlorinated Biphenyl Congeners (HRGC/HRMS)	EPA	TAL SAC
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
903.0	Radium-226 (GFPC)	EPA	TAL SL
903.0	Total Alpha-Emitting Radium Isotopes by GFPC	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL

Protocol References:

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits

Dioxin

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.
U	Indicates the analyte was analyzed for but not detected.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
q	The isomer is qualified as positively identified, but at an estimated quantity because the quantitation is based on the theoretical ratio for these samples.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
*	Isotope Dilution analyte exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
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.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
F	MS/MSD Recovery and/or RPD exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

Rad

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Tracer exceeds control limit

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
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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: PP-B-1 0-4
Date Collected: 12/12/13 08:35
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-1
Matrix: Solid
Percent Solids: 93.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6400		100	71	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Antimony	3.3	U	5.1	3.3	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Barium	97		26	1.3	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Beryllium	0.86	U	2.6	0.86	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Cadmium	0.51	U	2.6	0.51	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Calcium	22000		1300	68	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Chromium	7.0		5.1	1.6	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Cobalt	6.3	J	26	4.8	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Copper	12	J	13	3.7	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Iron	7800		51	15	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Lead	7.6		5.1	0.88	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Magnesium	6400		510	42	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Manganese	330		5.1	0.79	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Nickel	13	J	20	1.1	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Potassium	3400	U	5100	3400	mg/Kg	☼	12/27/13 10:01	01/14/14 20:37	10
Selenium	1.5	U	7.7	1.5	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Silver	1.2	U	5.1	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Sodium	730	J	1000	480	mg/Kg	☼	12/27/13 10:01	01/14/14 20:37	10
Titanium	440		10	3.2	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Vanadium	23	J	26	6.4	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5
Zinc	28		26	10	mg/Kg	☼	12/27/13 10:01	01/10/14 01:15	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3	J	5.1	1.3	mg/Kg	☼	12/27/13 10:07	01/03/14 02:11	10
Niobium	2.9	J	13	1.9	mg/Kg	☼	12/27/13 10:07	01/03/14 02:11	10
Thallium	0.78	U	2.6	0.78	mg/Kg	☼	12/27/13 10:07	01/03/14 02:11	10
Uranium	0.62		0.51	0.10	mg/Kg	☼	12/27/13 10:07	01/03/14 02:11	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	J	0.032	0.011	mg/Kg	☼	12/19/13 09:05	12/19/13 17:40	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.22	H	0.21	0.043	mg/Kg	☼		01/14/14 23:44	1
Sulfate	36	H	5.3	0.53	mg/Kg	☼		01/14/14 23:44	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90	H	43	4.3	mg/Kg	☼		01/14/14 23:59	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	24.9		10.0	4.58	pCi/g		01/08/14 10:52	01/08/14 16:19	1
Gross Beta	29.2		10.0	3.14	pCi/g		01/08/14 10:52	01/08/14 16:19	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.58			0.233	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-212	2.05			0.701	pCi/g		12/23/13 16:53	01/14/14 20:01	1

Client Sample ID: PP-B-1 0-4
Date Collected: 12/12/13 08:35
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-1
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth-214	**1.12**			0.153	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-210M	0.0117	U		0.107	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cesium-134	0.0120	U		0.231	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cesium-137	0.000	U		0.122	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cobalt-57	-0.0175	U		0.0536	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cobalt-60	-0.0163	U		0.115	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Lead-212	**1.77**			0.119	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Lead-214	**1.17**			0.114	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Potassium-40	**25.8**			0.559	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Protactinium-231	0.809	U		2.52	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Protactinium-234	0.00852	U		0.299	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Radium-224	1.82	U		1.84	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thallium-208	**0.579**			0.0890	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thorium-227	-0.00857	U		1.57	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thorium-234	1.42	U		1.53	pCi/g		12/23/13 16:53	01/14/14 20:01	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**1.12**		1.00	0.111	pCi/g		12/26/13 10:52	01/20/14 19:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*40 - 110*	*12/26/13 10:52*	*01/20/14 19:38*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.53**		1.00	0.340	pCi/g		12/26/13 11:09	01/17/14 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.7*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*
Y Carrier	*88.2*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**2.16**		1.00	0.0804	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-230	**1.50**		1.00	0.114	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-232	**1.74**		1.00	0.0892	pCi/g		01/14/14 10:14	01/21/14 12:28	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*71.3*		*30 - 110*	*01/14/14 10:14*	*01/21/14 12:28*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.10**		1.00	0.0804	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-235/236	**0.107**		1.00	0.0731	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-238	**1.13**		1.00	0.0689	pCi/g		01/14/14 10:14	01/21/14 17:48	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*81.4*		*30 - 110*	*01/14/14 10:14*	*01/21/14 17:48*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: PP-B-1 11-13
Date Collected: 12/12/13 09:20
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-2
Matrix: Solid
Percent Solids: 91.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9200		110	75	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Antimony	3.4	U	5.4	3.4	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Barium	200		27	1.3	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Beryllium	0.90	U	2.7	0.90	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Cadmium	0.54	U	2.7	0.54	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Calcium	21000		1300	71	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Chromium	13		5.4	1.6	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Cobalt	7.6	J	27	5.0	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Copper	14		13	3.9	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Iron	13000		54	16	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Lead	8.7		5.4	0.92	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Magnesium	8000		540	44	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Manganese	290		5.4	0.82	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Nickel	15	J	21	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Potassium	3600	U	5400	3600	mg/Kg	☼	12/27/13 10:01	01/14/14 20:52	10
Selenium	1.5	U	8.0	1.5	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Silver	1.3	U	5.4	1.3	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Sodium	690	J	1100	500	mg/Kg	☼	12/27/13 10:01	01/14/14 20:52	10
Titanium	630		11	3.4	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Vanadium	35		27	6.7	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5
Zinc	33		27	11	mg/Kg	☼	12/27/13 10:01	01/10/14 01:38	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.9		5.4	1.4	mg/Kg	☼	12/27/13 10:07	01/03/14 02:38	10
Niobium	2.0	U	13	2.0	mg/Kg	☼	12/27/13 10:07	01/03/14 02:38	10
Thallium	0.81	U	2.7	0.81	mg/Kg	☼	12/27/13 10:07	01/03/14 02:38	10
Uranium	1.6		0.54	0.11	mg/Kg	☼	12/27/13 10:07	01/03/14 02:38	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026	J	0.034	0.011	mg/Kg	☼	12/19/13 09:05	12/19/13 17:41	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.1	H	0.22	0.043	mg/Kg	☼		01/15/14 00:28	1
Sulfate	24	H	5.4	0.54	mg/Kg	☼		01/15/14 00:28	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290	H	43	4.3	mg/Kg	☼		01/15/14 00:43	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	25.1		10.0	5.36	pCi/g		01/08/14 10:52	01/08/14 16:19	1
Gross Beta	26.2		10.0	3.05	pCi/g		01/08/14 10:52	01/08/14 16:19	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.82			0.165	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Bismuth-212	0.837	U		1.10	pCi/g		12/23/13 16:53	01/14/14 19:59	1

Client Sample ID: PP-B-1 11-13
Date Collected: 12/12/13 09:20
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-2
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth-214	**1.08**			0.154	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Bismuth-210M	0.0113	U		0.116	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Cesium-134	0.0342	U		0.242	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Cesium-137	-0.0159	U		0.0861	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Cobalt-57	0.0219	U		0.0620	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Cobalt-60	0.00908	U		0.0887	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Lead-212	**1.83**			0.121	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Lead-214	**1.27**			0.178	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Potassium-40	**23.7**			0.741	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Protactinium-231	0.703	U		2.31	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Protactinium-234	0.0808	U		0.259	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Radium-224	0.797	U		2.04	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Thallium-208	**0.632**			0.0800	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Thorium-227	0.122	U		0.454	pCi/g		12/23/13 16:53	01/14/14 19:59	1
Thorium-234	0.825	U		2.25	pCi/g		12/23/13 16:53	01/14/14 19:59	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**1.06**		1.00	0.121	pCi/g		12/26/13 10:52	01/20/14 19:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*40 - 110*	*12/26/13 10:52*	*01/20/14 19:38*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.18**		1.00	0.348	pCi/g		12/26/13 11:09	01/17/14 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*
Y Carrier	*89.7*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.86**		1.00	0.0759	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-230	**1.20**		1.00	0.0999	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-232	**1.78**		1.00	0.0763	pCi/g		01/14/14 10:14	01/21/14 12:28	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*83.0*		*30 - 110*	*01/14/14 10:14*	*01/21/14 12:28*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.38**		1.00	0.0927	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-235/236	**0.103**		1.00	0.0864	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-238	**1.08**		1.00	0.0951	pCi/g		01/14/14 10:14	01/21/14 17:48	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*81.1*		*30 - 110*	*01/14/14 10:14*	*01/21/14 17:48*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: PP-B-2 0-4
Date Collected: 12/12/13 10:20
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-3
Matrix: Solid
Percent Solids: 93.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		100	71	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Antimony	3.2	U	5.0	3.2	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Barium	180		25	1.3	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Beryllium	0.85	U	2.5	0.85	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Cadmium	0.50	U	2.5	0.50	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Calcium	24000		1300	67	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Chromium	12		5.0	1.5	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Cobalt	10	J	25	4.7	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Copper	58		13	3.7	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Iron	16000		50	15	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Lead	12		5.0	0.87	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Magnesium	12000		500	42	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Manganese	500		5.0	0.78	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Nickel	19	J	20	1.1	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Potassium	3400	U	5000	3400	mg/Kg	☼	12/27/13 10:01	01/14/14 20:56	10
Selenium	1.5	U	7.6	1.5	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Silver	1.2	U	5.0	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Sodium	2600		1000	480	mg/Kg	☼	12/27/13 10:01	01/14/14 20:56	10
Titanium	630		10	3.2	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Vanadium	38		25	6.4	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5
Zinc	40		25	10	mg/Kg	☼	12/27/13 10:01	01/10/14 01:42	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6	J	5.0	1.3	mg/Kg	☼	12/27/13 10:07	01/03/14 02:45	10
Niobium	1.9	J	13	1.9	mg/Kg	☼	12/27/13 10:07	01/03/14 02:45	10
Thallium	0.77	U	2.5	0.77	mg/Kg	☼	12/27/13 10:07	01/03/14 02:45	10
Uranium	1.1		0.50	0.10	mg/Kg	☼	12/27/13 10:07	01/03/14 02:45	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	J	0.032	0.011	mg/Kg	☼	12/19/13 09:05	12/19/13 17:43	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	11	H	0.21	0.043	mg/Kg	☼		01/15/14 03:13	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	470	H	110	11	mg/Kg	☼		01/15/14 03:27	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100	H	210	21	mg/Kg	☼		01/15/14 03:42	100

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	19.5		10.0	4.52	pCi/g		01/08/14 10:52	01/08/14 16:19	1
Gross Beta	25.0		10.0	2.44	pCi/g		01/08/14 10:52	01/08/14 16:19	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: PP-B-2 0-4
Date Collected: 12/12/13 10:20
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-3
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	0.948			0.355	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Bismuth-212	1.31	U		1.68	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Bismuth-214	1.06			0.211	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Bismuth-210M	0.0201	U		0.171	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Cesium-134	0.0287	U		0.106	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Cesium-137	-0.0199	U		0.158	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Cobalt-57	0.0123	U		0.0822	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Cobalt-60	-0.0393	U		0.202	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Lead-212	1.60			0.183	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Lead-214	1.36			0.188	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Potassium-40	21.6			1.14	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Protactinium-231	-1.87	U		4.41	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Protactinium-234	0.109	U		0.336	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Radium-224	2.72			2.53	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Thallium-208	0.677			0.119	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Thorium-227	0.000	U		0.640	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Thorium-234	2.23	U		2.91	pCi/g		12/23/13 16:53	01/14/14 20:42	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	1.10		1.00	0.0984	pCi/g		12/26/13 10:52	01/20/14 19:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*40 - 110*	*12/26/13 10:52*	*01/20/14 19:38*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.26		1.00	0.305	pCi/g		12/26/13 11:09	01/17/14 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.5*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*
Y Carrier	*89.3*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.71		1.00	0.121	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-230	1.11		1.00	0.102	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-232	1.41		1.00	0.0749	pCi/g		01/14/14 10:14	01/21/14 12:28	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*83.8*		*30 - 110*	*01/14/14 10:14*	*01/21/14 12:28*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	1.15		1.00	0.0920	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-235/236	0.0464		1.00	0.0464	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-238	1.27		1.00	0.0845	pCi/g		01/14/14 10:14	01/21/14 17:48	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*76.2*		*30 - 110*	*01/14/14 10:14*	*01/21/14 17:48*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: PP-B-2 7-15
Date Collected: 12/12/13 11:00
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-4
Matrix: Solid
Percent Solids: 93.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9900		100	72	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Antimony	3.3	U	5.2	3.3	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Barium	170		26	1.3	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Beryllium	0.87	U	2.6	0.87	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Cadmium	0.52	U	2.6	0.52	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Calcium	29000		1300	69	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Chromium	12		5.2	1.6	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Cobalt	7.2	J	26	4.8	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Copper	15		13	3.7	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Iron	13000		52	15	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Lead	9.0		5.2	0.89	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Magnesium	9900		520	43	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Manganese	310		5.2	0.79	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Nickel	15	J	21	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Potassium	3500	U	5200	3500	mg/Kg	☼	12/27/13 10:01	01/14/14 21:00	10
Selenium	1.5	U	7.7	1.5	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Silver	1.2	U	5.2	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Sodium	2400		1000	490	mg/Kg	☼	12/27/13 10:01	01/14/14 21:00	10
Titanium	660		10	3.3	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Vanadium	35		26	6.5	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5
Zinc	35		26	10	mg/Kg	☼	12/27/13 10:01	01/10/14 01:46	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		5.2	1.3	mg/Kg	☼	12/27/13 10:07	01/03/14 02:52	10
Niobium	2.0	U	13	2.0	mg/Kg	☼	12/27/13 10:07	01/03/14 02:52	10
Thallium	0.78	U	2.6	0.78	mg/Kg	☼	12/27/13 10:07	01/03/14 02:52	10
Uranium	1.3		0.52	0.10	mg/Kg	☼	12/27/13 10:07	01/03/14 02:52	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	J	0.034	0.011	mg/Kg	☼	12/19/13 09:05	12/19/13 17:45	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	5.3	H	0.21	0.043	mg/Kg	☼		01/15/14 04:27	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	740	H	110	11	mg/Kg	☼		01/15/14 04:42	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300	H	210	21	mg/Kg	☼		01/15/14 04:57	100

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	25.2		10.0	5.25	pCi/g		01/08/14 10:52	01/08/14 16:19	1
Gross Beta	27.3		10.0	3.10	pCi/g		01/08/14 10:52	01/08/14 16:19	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: PP-B-2 7-15
Date Collected: 12/12/13 11:00
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-4
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.02			0.237	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Bismuth-212	1.30			1.26	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Bismuth-214	0.908			0.198	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Bismuth-210M	0.000371	U		0.149	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Cesium-134	0.0120	U		0.104	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Cesium-137	-0.0101	U		0.127	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Cobalt-57	0.000472	U		0.0746	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Cobalt-60	0.0274	U		0.127	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Lead-212	1.91			0.137	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Lead-214	1.16			0.212	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Potassium-40	23.7			0.821	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Protactinium-231	0.716	U		3.17	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Protactinium-234	0.0656	U		0.342	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Radium-224	2.09			1.95	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Thallium-208	0.668			0.0937	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Thorium-227	0.124	U		2.12	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Thorium-234	1.59	U		2.14	pCi/g		12/23/13 16:53	01/14/14 20:41	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.914		1.00	0.109	pCi/g		12/26/13 10:52	01/20/14 19:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.5*		*40 - 110*	*12/26/13 10:52*	*01/20/14 19:38*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.16		1.00	0.352	pCi/g		12/26/13 11:09	01/17/14 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.0*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*
Y Carrier	*86.0*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.91		1.00	0.118	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-230	1.39		1.00	0.0698	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-232	1.78		1.00	0.0366	pCi/g		01/14/14 10:14	01/21/14 12:28	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*78.0*		*30 - 110*	*01/14/14 10:14*	*01/21/14 12:28*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	1.00		1.00	0.0661	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-235/236	0.0524	U	1.00	0.0751	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-238	1.00		1.00	0.0708	pCi/g		01/14/14 10:14	01/21/14 17:48	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*80.6*		*30 - 110*	*01/14/14 10:14*	*01/21/14 17:48*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: FM-B-1 0-2
Date Collected: 12/12/13 12:00
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-5
Matrix: Solid
Percent Solids: 94.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9000		100	73	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Antimony	3.3	U	5.2	3.3	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Barium	130		26	1.3	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Beryllium	0.88	U	2.6	0.88	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Cadmium	0.52	U	2.6	0.52	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Calcium	14000		1300	69	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Chromium	9.8		5.2	1.6	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Cobalt	9.1	J	26	4.9	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Copper	18		13	3.8	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Iron	14000		52	15	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Lead	7.5		5.2	0.89	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Magnesium	9000		520	43	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Manganese	390		5.2	0.80	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Nickel	21		21	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Potassium	3500	U	5200	3500	mg/Kg	☼	12/27/13 10:01	01/14/14 21:04	10
Selenium	1.5	U	7.8	1.5	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Silver	1.2	U	5.2	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Sodium	670	J	1000	490	mg/Kg	☼	12/27/13 10:01	01/14/14 21:04	10
Titanium	640		10	3.3	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Vanadium	33		26	6.5	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5
Zinc	38		26	10	mg/Kg	☼	12/27/13 10:01	01/10/14 01:50	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7	J	5.2	1.3	mg/Kg	☼	12/27/13 10:07	01/03/14 03:12	10
Niobium	2.0	U	13	2.0	mg/Kg	☼	12/27/13 10:07	01/03/14 03:12	10
Thallium	0.79	U	2.6	0.79	mg/Kg	☼	12/27/13 10:07	01/03/14 03:12	10
Uranium	0.93		0.52	0.10	mg/Kg	☼	12/27/13 10:07	01/03/14 03:12	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024	J	0.033	0.011	mg/Kg	☼	12/19/13 09:05	12/19/13 17:46	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.4	H	0.21	0.042	mg/Kg	☼		01/15/14 05:12	1
Chloride	46	H	2.1	0.21	mg/Kg	☼		01/15/14 05:12	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	210	H	110	11	mg/Kg	☼		01/15/14 05:27	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	16.1		10.0	6.25	pCi/g		01/08/14 10:52	01/08/14 16:19	1
Gross Beta	28.6		10.0	3.18	pCi/g		01/08/14 10:52	01/08/14 16:19	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.79			0.237	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Bismuth-212	1.20			1.06	pCi/g		12/23/13 16:53	01/14/14 20:42	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: FM-B-1 0-2
Date Collected: 12/12/13 12:00
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-5
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth-214	**1.10**			0.0981	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Bismuth-210M	-0.0216	U		0.105	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Cesium-134	0.0422	U		0.229	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Cesium-137	0.00853	U		0.0764	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Cobalt-57	0.00438	U		0.0567	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Cobalt-60	0.0256	U		0.106	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Lead-212	**1.69**			0.113	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Lead-214	**1.12**			0.150	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Potassium-40	**23.9**			0.807	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Protactinium-231	0.740	U		1.96	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Protactinium-234	0.0531	U		0.289	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Radium-224	1.76	U		1.78	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Thallium-208	**0.619**			0.0886	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Thorium-227	-0.0369	U		0.343	pCi/g		12/23/13 16:53	01/14/14 20:42	1
Thorium-234	1.48	U		1.78	pCi/g		12/23/13 16:53	01/14/14 20:42	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**1.03**		1.00	0.129	pCi/g		12/26/13 10:52	01/20/14 19:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*40 - 110*	*12/26/13 10:52*	*01/20/14 19:39*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.17**		1.00	0.380	pCi/g		12/26/13 11:09	01/17/14 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.7*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*
Y Carrier	*86.7*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**2.21**		1.00	0.115	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-230	**1.44**		1.00	0.105	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-232	**1.96**		1.00	0.0646	pCi/g		01/14/14 10:14	01/21/14 12:28	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*73.0*		*30 - 110*	*01/14/14 10:14*	*01/21/14 12:28*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.913**		1.00	0.128	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-235/236	0.0154	U	1.00	0.128	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-238	**1.33**		1.00	0.128	pCi/g		01/14/14 10:14	01/21/14 17:48	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*47.1*		*30 - 110*	*01/14/14 10:14*	*01/21/14 17:48*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: FM-B-1 2-4
Date Collected: 12/12/13 12:15
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-6
Matrix: Solid
Percent Solids: 93.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8900		90	63	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Antimony	2.9	U	4.5	2.9	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Barium	160		22	1.1	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Beryllium	0.76	U	2.2	0.76	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Cadmium	0.45	U	2.2	0.45	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Calcium	18000		1100	60	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Chromium	12		4.5	1.4	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Cobalt	9.9	J	22	4.2	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Copper	18		11	3.3	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Iron	16000		45	13	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Lead	9.6		4.5	0.77	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Magnesium	8300		450	37	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Manganese	440		4.5	0.69	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Nickel	18		18	1.0	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Potassium	3000	U	4500	3000	mg/Kg	☼	12/27/13 10:01	01/14/14 21:08	10
Selenium	1.3	U	6.7	1.3	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Silver	1.0	U	4.5	1.0	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Sodium	760	J	900	420	mg/Kg	☼	12/27/13 10:01	01/14/14 21:08	10
Titanium	810		9.0	2.8	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Vanadium	42		22	5.6	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5
Zinc	39		22	8.9	mg/Kg	☼	12/27/13 10:01	01/10/14 01:54	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9		4.5	1.2	mg/Kg	☼	12/27/13 10:07	01/03/14 03:19	10
Niobium	1.9	J	11	1.7	mg/Kg	☼	12/27/13 10:07	01/03/14 03:19	10
Thallium	0.68	U	2.2	0.68	mg/Kg	☼	12/27/13 10:07	01/03/14 03:19	10
Uranium	1.1		0.45	0.089	mg/Kg	☼	12/27/13 10:07	01/03/14 03:19	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.031	0.010	mg/Kg	☼	12/19/13 09:05	12/19/13 17:48	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.76	H	0.22	0.043	mg/Kg	☼		01/15/14 05:57	1
Chloride	32	H	2.2	0.22	mg/Kg	☼		01/15/14 05:57	1
Sulfate	160	H	5.4	0.54	mg/Kg	☼		01/15/14 05:57	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	30.2		10.0	4.89	pCi/g		01/08/14 10:52	01/08/14 16:19	1
Gross Beta	26.5		10.0	2.80	pCi/g		01/08/14 10:52	01/08/14 16:19	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.73			0.182	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Bismuth-212	2.38			0.526	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Bismuth-214	1.05			0.131	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Bismuth-210M	-0.0143	U		0.114	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Cesium-134	0.0305	U		0.0650	pCi/g		12/23/13 16:53	01/14/14 20:41	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: FM-B-1 2-4
Date Collected: 12/12/13 12:15
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-6
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Cesium-137	0.000424	U		0.0715	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Cobalt-57	-0.0185	U		0.0628	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Cobalt-60	0.000375	U		0.0904	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Lead-212	**1.61**			0.126	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Lead-214	**1.17**			0.124	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Potassium-40	**26.8**			0.523	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Protactinium-231	0.520	U		1.19	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Protactinium-234	0.0688	U		0.297	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Radium-224	-2.29	U		2.75	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Thallium-208	**0.423**			0.0750	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Thorium-227	0.248	U		0.464	pCi/g		12/23/13 16:53	01/14/14 20:41	1
Thorium-234	**1.54**			1.52	pCi/g		12/23/13 16:53	01/14/14 20:41	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**1.02**		1.00	0.135	pCi/g		12/26/13 10:52	01/20/14 19:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.2*		*40 - 110*	*12/26/13 10:52*	*01/20/14 19:39*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.37**		1.00	0.415	pCi/g		12/26/13 11:09	01/17/14 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*
Y Carrier	*89.0*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.68**		1.00	0.0803	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-230	**1.01**		1.00	0.0773	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-232	**1.49**		1.00	0.0615	pCi/g		01/14/14 10:14	01/21/14 12:28	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*84.7*		*30 - 110*	*01/14/14 10:14*	*01/21/14 12:28*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.07**		1.00	0.0734	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-235/236	0.0282	U	1.00	0.0424	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-238	**1.08**		1.00	0.0644	pCi/g		01/14/14 10:14	01/21/14 17:48	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*80.0*		*30 - 110*	*01/14/14 10:14*	*01/21/14 17:48*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: FM-B-1 13-15
Date Collected: 12/12/13 12:50
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-7
Matrix: Solid
Percent Solids: 94.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7900		95	67	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Antimony	3.1	U	4.8	3.1	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Barium	140		24	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Beryllium	0.81	U	2.4	0.81	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Cadmium	0.48	U	2.4	0.48	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Calcium	21000		1200	63	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Chromium	8.7		4.8	1.5	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Cobalt	7.4	J	24	4.5	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Copper	15		12	3.5	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Iron	10000		48	14	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Lead	7.3		4.8	0.82	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Magnesium	7500		480	40	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Manganese	300		4.8	0.73	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Nickel	15	J	19	1.1	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Potassium	3200	U	4800	3200	mg/Kg	☼	12/27/13 10:01	01/14/14 21:19	10
Selenium	1.4	U	7.2	1.4	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Silver	1.1	U	4.8	1.1	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Sodium	550	J	950	450	mg/Kg	☼	12/27/13 10:01	01/14/14 21:19	10
Titanium	480		9.5	3.0	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Vanadium	28		24	6.0	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5
Zinc	32		24	9.4	mg/Kg	☼	12/27/13 10:01	01/10/14 01:57	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.2		4.8	1.2	mg/Kg	☼	12/27/13 10:07	01/03/14 03:25	10
Niobium	1.8	U	12	1.8	mg/Kg	☼	12/27/13 10:07	01/03/14 03:25	10
Thallium	0.72	U	2.4	0.72	mg/Kg	☼	12/27/13 10:07	01/03/14 03:25	10
Uranium	1.2		0.48	0.095	mg/Kg	☼	12/27/13 10:07	01/03/14 03:25	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.031	0.010	mg/Kg	☼	12/19/13 09:05	12/19/13 17:53	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.27	H	0.21	0.042	mg/Kg	☼		01/15/14 07:11	1
Chloride	16	H	2.1	0.21	mg/Kg	☼		01/15/14 07:11	1
Sulfate	80	H	5.3	0.53	mg/Kg	☼		01/15/14 07:11	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	25.3		10.0	5.09	pCi/g		01/08/14 10:52	01/08/14 16:19	1
Gross Beta	19.9		10.0	4.03	pCi/g		01/08/14 10:52	01/08/14 16:19	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.75			0.285	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Bismuth-212	2.93			0.742	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Bismuth-214	1.11			0.170	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Bismuth-210M	0.000845	U		0.118	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Cesium-134	0.0581	U		0.0921	pCi/g		12/23/13 16:53	01/14/14 21:19	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: FM-B-1 13-15
Date Collected: 12/12/13 12:50
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-7
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Cesium-137	-0.00984	U		0.100	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Cobalt-57	0.00985	U		0.0627	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Cobalt-60	0.0181	U		0.110	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Lead-212	**1.89**			0.143	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Lead-214	**1.34**			0.155	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Potassium-40	**26.9**			0.695	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Protactinium-231	0.752	U		2.66	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Protactinium-234	0.00818	U		0.355	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Radium-224	1.29	U		2.18	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Thallium-208	**0.618**			0.0865	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Thorium-227	0.156	U		1.96	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Thorium-234	**2.26**			2.17	pCi/g		12/23/13 16:53	01/14/14 21:19	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**1.31**		1.00	0.111	pCi/g		12/26/13 10:52	01/20/14 19:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.3*		*40 - 110*	*12/26/13 10:52*	*01/20/14 19:39*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.35**		1.00	0.384	pCi/g		12/26/13 11:09	01/17/14 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.0*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*
Y Carrier	*88.2*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.77**		1.00	0.0891	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-230	**1.36**		1.00	0.0753	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-232	**1.72**		1.00	0.0707	pCi/g		01/14/14 10:14	01/21/14 12:28	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*80.8*		*30 - 110*	*01/14/14 10:14*	*01/21/14 12:28*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.24**		1.00	0.0648	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-235/236	0.0319	U	1.00	0.0866	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-238	**0.840**		1.00	0.0774	pCi/g		01/14/14 10:14	01/21/14 17:48	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*83.2*		*30 - 110*	*01/14/14 10:14*	*01/21/14 17:48*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: FM-B-2 0-2
Date Collected: 12/12/13 13:40
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-8
Matrix: Solid
Percent Solids: 97.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6900		89	62	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Antimony	2.8	U	4.4	2.8	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Barium	150		22	1.1	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Beryllium	0.75	U	2.2	0.75	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Cadmium	0.44	U	2.2	0.44	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Calcium	11000		1100	59	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Chromium	150		4.4	1.4	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Cobalt	7.1	J	22	4.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Copper	23		11	3.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Iron	9500		44	13	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Lead	12		4.4	0.76	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Magnesium	5500		440	37	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Manganese	350		4.4	0.68	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Nickel	15	J	18	1.0	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Potassium	3000	U	4400	3000	mg/Kg	☼	12/27/13 10:01	01/14/14 21:23	10
Selenium	1.3	U	6.7	1.3	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Silver	1.6	J	4.4	1.0	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Sodium	630	J	890	420	mg/Kg	☼	12/27/13 10:01	01/14/14 21:23	10
Titanium	1400		8.9	2.8	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Vanadium	220		22	5.6	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5
Zinc	31		22	8.8	mg/Kg	☼	12/27/13 10:01	01/10/14 02:01	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3	J	4.4	1.2	mg/Kg	☼	12/27/13 10:07	01/03/14 03:32	10
Niobium	200		56	8.4	mg/Kg	☼	12/27/13 10:07	01/03/14 19:01	50
Thallium	0.67	U	2.2	0.67	mg/Kg	☼	12/27/13 10:07	01/03/14 03:32	10
Uranium	23		0.44	0.088	mg/Kg	☼	12/27/13 10:07	01/03/14 03:32	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.034	0.011	mg/Kg	☼	12/19/13 09:05	12/19/13 17:54	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.65	H	0.21	0.042	mg/Kg	☼		01/15/14 07:56	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	H	42	4.2	mg/Kg	☼		01/15/14 08:11	20
Sulfate	1800	H	100	10	mg/Kg	☼		01/15/14 08:11	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	244		10.0	5.15	pCi/g		01/08/14 10:52	01/08/14 19:51	1
Gross Beta	103		10.0	5.38	pCi/g		01/08/14 10:52	01/08/14 19:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.39			0.408	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Bismuth-212	-0.936	U		2.57	pCi/g		12/23/13 16:53	01/14/14 21:18	1

Client Sample ID: FM-B-2 0-2
Date Collected: 12/12/13 13:40
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-8
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth-214	**5.16**			0.254	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Bismuth-210M	0.0938	U		0.227	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Cesium-134	0.0667	U		0.765	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Cesium-137	0.00799	U		0.193	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Cobalt-57	0.0456	U		0.108	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Cobalt-60	0.00133	U		0.188	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Lead-212	**2.32**			0.268	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Lead-214	**5.20**			0.376	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Potassium-40	**25.0**			1.81	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Protactinium-231	1.71	U		5.31	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Protactinium-234	0.176	U		0.615	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Radium-224	1.11	U		4.45	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Thallium-208	**0.989**			0.169	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Thorium-227	0.385	U		2.86	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Thorium-234	**5.27**			4.92	pCi/g		12/23/13 16:53	01/14/14 21:18	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**8.60**		1.00	0.120	pCi/g		12/26/13 10:52	01/20/14 19:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.8*		*40 - 110*	*12/26/13 10:52*	*01/20/14 19:39*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.95**		1.00	0.389	pCi/g		12/26/13 11:09	01/17/14 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.4*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*
Y Carrier	*88.2*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**2.36**		1.00	0.0878	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-230	**14.5**		1.00	0.0879	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-232	**2.20**		1.00	0.0899	pCi/g		01/14/14 10:14	01/21/14 12:28	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*85.7*		*30 - 110*	*01/14/14 10:14*	*01/21/14 12:28*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**15.9**		1.00	0.0882	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-235/236	**0.633**		1.00	0.0985	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-238	**15.1**		1.00	0.0589	pCi/g		01/14/14 10:14	01/21/14 17:48	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*73.2*		*30 - 110*	*01/14/14 10:14*	*01/21/14 17:48*	*1*

Client Sample ID: FM-B-2 2-4
Date Collected: 12/12/13 13:55
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-9
Matrix: Solid
Percent Solids: 96.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		93	65	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Antimony	3.0	U	4.7	3.0	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Barium	230		23	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Beryllium	0.79	U	2.3	0.79	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Cadmium	0.47	U	2.3	0.47	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Calcium	14000		1200	62	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Chromium	15		4.7	1.4	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Cobalt	9.1	J	23	4.4	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Copper	16		12	3.4	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Iron	16000		47	14	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Lead	9.7		4.7	0.80	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Magnesium	7300		470	39	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Manganese	430		4.7	0.72	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Nickel	16	J	19	1.0	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Potassium	3100	U	4700	3100	mg/Kg	☼	12/27/13 10:01	01/14/14 21:27	10
Selenium	1.3	U	7.0	1.3	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Silver	1.1	U	4.7	1.1	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Sodium	790	J	930	440	mg/Kg	☼	12/27/13 10:01	01/14/14 21:27	10
Titanium	850		9.3	2.9	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Vanadium	45		23	5.9	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5
Zinc	39		23	9.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:13	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8	J	4.7	1.2	mg/Kg	☼	12/27/13 10:07	01/03/14 03:39	10
Niobium	7.1	J	12	1.8	mg/Kg	☼	12/27/13 10:07	01/03/14 03:39	10
Thallium	0.71	U	2.3	0.71	mg/Kg	☼	12/27/13 10:07	01/03/14 03:39	10
Uranium	1.1		0.47	0.093	mg/Kg	☼	12/27/13 10:07	01/03/14 03:39	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	J	0.031	0.010	mg/Kg	☼	12/19/13 09:05	12/19/13 17:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.34	H	0.21	0.042	mg/Kg	☼		01/15/14 08:41	1
Sulfate	51	H	5.2	0.52	mg/Kg	☼		01/15/14 08:41	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160	H	42	4.2	mg/Kg	☼		01/15/14 08:56	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	23.5		10.0	4.15	pCi/g		01/08/14 10:52	01/08/14 19:51	1
Gross Beta	31.3		10.0	3.26	pCi/g		01/08/14 10:52	01/08/14 19:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.64			0.267	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Bismuth-212	3.18			0.976	pCi/g		12/23/13 16:53	01/14/14 21:19	1

Client Sample ID: FM-B-2 2-4
Date Collected: 12/12/13 13:55
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-9
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth-214	**1.15**			0.176	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Bismuth-210M	0.0155	U		0.128	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Cesium-134	-0.0751	U		0.142	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Cesium-137	-0.0442	U		0.135	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Cobalt-57	-0.0111	U		0.0715	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Cobalt-60	0.00272	U		0.0471	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Lead-212	**1.68**			0.137	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Lead-214	**1.00**			0.191	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Potassium-40	**25.3**			0.765	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Protactinium-231	0.816	U		2.91	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Protactinium-234	0.179	U		0.323	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Radium-224	**2.36**			1.96	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Thallium-208	**0.530**			0.0821	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Thorium-227	-0.136	U		1.91	pCi/g		12/23/13 16:53	01/14/14 21:19	1
Thorium-234	1.08	U		2.43	pCi/g		12/23/13 16:53	01/14/14 21:19	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**1.04**		1.00	0.106	pCi/g		12/26/13 10:52	01/20/14 19:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.2*		*40 - 110*	*12/26/13 10:52*	*01/20/14 19:39*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.09**		1.00	0.393	pCi/g		12/26/13 11:09	01/17/14 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.5*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*
Y Carrier	*87.1*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:37*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.75**		1.00	0.101	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-230	**1.17**		1.00	0.0781	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-232	**1.61**		1.00	0.0875	pCi/g		01/14/14 10:14	01/21/14 12:28	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*82.5*		*30 - 110*	*01/14/14 10:14*	*01/21/14 12:28*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.957**		1.00	0.0785	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-235/236	**0.130**		1.00	0.0782	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-238	**0.972**		1.00	0.0673	pCi/g		01/14/14 10:14	01/21/14 17:48	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*86.0*		*30 - 110*	*01/14/14 10:14*	*01/21/14 17:48*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: FM-B-2 13-15
Date Collected: 12/12/13 14:45
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-10
Matrix: Solid
Percent Solids: 94.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		98	69	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Antimony	3.2	U	4.9	3.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Barium	160		25	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Beryllium	0.83	U	2.5	0.83	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Cadmium	0.49	U	2.5	0.49	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Calcium	18000		1200	66	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Chromium	13		4.9	1.5	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Cobalt	8.5	J	25	4.6	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Copper	19		12	3.6	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Iron	15000		49	15	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Lead	8.1		4.9	0.85	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Magnesium	9600		490	41	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Manganese	330		4.9	0.76	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Nickel	17	J	20	1.1	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Potassium	3300	U	4900	3300	mg/Kg	☼	12/27/13 10:01	01/14/14 21:31	10
Selenium	1.4	U	7.4	1.4	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Silver	1.2	U	4.9	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Sodium	860	J	980	460	mg/Kg	☼	12/27/13 10:01	01/14/14 21:31	10
Titanium	670		9.8	3.1	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Vanadium	40		25	6.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5
Zinc	39		25	9.8	mg/Kg	☼	12/27/13 10:01	01/10/14 02:17	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3		4.9	1.3	mg/Kg	☼	12/27/13 10:07	01/03/14 03:46	10
Niobium	1.9	U	12	1.9	mg/Kg	☼	12/27/13 10:07	01/03/14 03:46	10
Thallium	0.75	U	2.5	0.75	mg/Kg	☼	12/27/13 10:07	01/03/14 03:46	10
Uranium	1.5		0.49	0.098	mg/Kg	☼	12/27/13 10:07	01/03/14 03:46	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.033	0.011	mg/Kg	☼	12/19/13 09:05	12/19/13 17:58	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.21	H	0.21	0.042	mg/Kg	☼		01/15/14 09:55	1
Sulfate	67	H	5.3	0.53	mg/Kg	☼		01/15/14 09:55	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94	H	42	4.2	mg/Kg	☼		01/15/14 10:10	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	27.3		10.0	3.92	pCi/g		01/08/14 10:52	01/08/14 19:51	1
Gross Beta	29.6		10.0	2.95	pCi/g		01/08/14 10:52	01/08/14 19:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.70			0.137	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Bismuth-212	1.15	U		1.16	pCi/g		12/23/13 16:53	01/14/14 21:18	1

Client Sample ID: FM-B-2 13-15
Date Collected: 12/12/13 14:45
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-10
Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth-214	**1.18**			0.143	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Bismuth-210M	0.0133	U		0.107	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Cesium-134	0.0396	U		0.240	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Cesium-137	0.0182	U		0.0818	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Cobalt-57	0.0174	U		0.0536	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Cobalt-60	-0.0233	U		0.120	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Lead-212	**1.66**			0.121	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Lead-214	**1.22**			0.125	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Potassium-40	**23.9**			0.562	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Protactinium-231	0.766	U		2.17	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Protactinium-234	0.0453	U		0.176	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Radium-224	1.82	U		1.90	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Thallium-208	**0.639**			0.0602	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Thorium-227	0.0868	U		0.462	pCi/g		12/23/13 16:53	01/14/14 21:18	1
Thorium-234	0.574	U		2.05	pCi/g		12/23/13 16:53	01/14/14 21:18	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**1.11**		1.00	0.0933	pCi/g		12/26/13 10:52	01/20/14 19:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*12/26/13 10:52*	*01/20/14 19:39*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.39**		1.00	0.414	pCi/g		12/26/13 11:09	01/17/14 11:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:38*	*1*
Y Carrier	*89.0*		*40 - 110*	*12/26/13 11:09*	*01/17/14 11:38*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.84**		1.00	0.0853	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-230	**1.09**		1.00	0.0624	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-232	**1.48**		1.00	0.0750	pCi/g		01/14/14 10:14	01/21/14 12:28	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*78.0*		*30 - 110*	*01/14/14 10:14*	*01/21/14 12:28*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.13**		1.00	0.104	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-235/236	**0.0590**		1.00	0.0442	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-238	**1.26**		1.00	0.0841	pCi/g		01/14/14 10:14	01/21/14 17:48	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*80.7*		*30 - 110*	*01/14/14 10:14*	*01/21/14 17:48*	*1*

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: P-B-11_SS
Date Collected: 12/11/13 12:15
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-11
Matrix: Solid
Percent Solids: 94.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	14	J B	42	1.3	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-2	21	J B	42	1.3	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-3	52	B	42	1.4	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-4	33	U	42	33	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-5	20	U	42	20	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-6	20	U	42	20	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-7	19	U	42	19	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-8	48		42	20	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-9	21	U	42	21	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-10	22	U	42	22	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-11	62		42	21	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-12/13	95		84	21	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-14	17	U	42	17	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-15	550		42	23	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-16	24	J	42	3.0	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-17	38	J	42	2.1	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-18/30	75	J	84	1.8	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-19	15	J	42	2.2	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-20/28	300	B	84	14	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-21/33	53	J	84	13	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-22	52		42	15	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-23	13	U	42	13	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-24	5.7	J	42	1.6	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-25	36	J	42	14	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-26/29	39	J	84	14	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-27	17	J	42	1.6	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-31	140	B	42	13	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-32	38	J	42	1.2	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-34	14	U	42	14	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-35	77		42	16	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-36	14	J q	42	14	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-37	320		42	21	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-38	15	U	42	15	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-39	53		42	14	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-40/71	1500		84	23	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-41	30	U	42	30	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-42	730		42	26	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-43	60		42	27	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-44/47/65	11000	B	130	22	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-45	180		42	26	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-46	77		42	28	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-48	200		42	24	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-49/69	4700		84	20	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-50/53	490		84	22	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-51	60		42	22	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-52	31000	E B	42	24	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-54	5.1	J	42	1.9	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-55	68	U G	68	68	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-56	1700	G	73	73	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: P-B-11_SS
Date Collected: 12/11/13 12:15
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-11
Matrix: Solid
Percent Solids: 94.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	66	U G	66	66	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-58	**1100**	**G**	67	67	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-59/62/75	**130**		130	17	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-60	**820**	**G**	70	70	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-61/70/74/76	**9900**		170	66	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-63	**140**	**G**	62	62	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-64	**3200**		42	16	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-66	**5800**	**E B G**	74	74	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-67	62	U G	62	62	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-68	**70**	**G**	59	59	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-72	**83**	**G**	64	64	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-73	**42**	**q**	42	18	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-77	**820**	**G**	89	89	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-78	**240**	**G**	75	75	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-79	**1100**	**G**	65	65	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-80	63	U G	63	63	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-81	93	U G	93	93	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-82	**7400**	**E G**	980	980	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-83	**2300**	**G**	1100	1100	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-84	**14000**	**E G**	890	890	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-85/116/117	**11000**	**G**	660	660	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-86/87/97/108/119/125	**41000**	**E G**	680	680	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-88/91	**6900**	**G**	750	750	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-89	840	U G	840	840	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-90/101/113	**59000**	**E G**	680	680	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-92	**9700**	**E G**	800	800	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-93/100	760	U G	760	760	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-107/124	**2100**	**G**	620	620	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-94	800	U G	800	800	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-95	**42000**	**E G**	740	740	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-96	**170**		42	2.1	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-98/102	**750**	**G**	700	700	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-99	**33000**	**E G**	790	790	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-103	700	U G	700	700	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-104	**14**	**J q**	42	1.9	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-105	**28000**	**E G**	710	710	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-106	680	U G	680	680	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-110/115	**80000**	**E G**	600	600	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-109	**3200**	**G**	580	580	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-111	550	U G	550	550	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-112	530	U G	530	530	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-114	**940**	**G**	730	730	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-118	**51000**	**E G**	670	670	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-120	590	U G	590	590	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-121	550	U G	550	550	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-122	690	U G	690	690	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-123	**850**	**G**	690	690	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-126	**880**	**G**	840	840	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-127	680	U G	680	680	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: P-B-11_SS
Date Collected: 12/11/13 12:15
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-11
Matrix: Solid
Percent Solids: 94.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-128/166	13000	E G	240	240	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-129/138/163	64000	E G	250	250	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-130	4000	G	320	320	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-131	670	G	300	300	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-132	19000	E G	290	290	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-133	550	G	290	290	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-134/143	2300	G	290	290	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-135/151	9200	E G	260	260	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-136	4400	E G	190	190	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-137	4100	G	250	250	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-139/140	1100	G	240	240	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-141	7300	E G	270	270	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-142	280	U G	280	280	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-144	1700	G	250	250	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-145	180	U G	180	180	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-146	6100	E G	270	270	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-147/149	30000	E G	250	250	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-148	250	U G	250	250	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-150	170	U G	170	170	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-152	170	U G	170	170	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-153/168	38000	E G	210	210	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-154	500	G	220	220	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-155	170	U G	170	170	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-156/157	10000	E G	130	130	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-158	7100	E G	190	190	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-159	180	G	99	99	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-160	220	U G	220	220	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-161	190	U G	190	190	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-162	410	G	96	96	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-164	3600	G	210	210	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-165	220	U G	220	220	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-167	3300	G	97	97	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-169	120	U G	120	120	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-170	6600	E	42	42	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-171/173	2800		84	39	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-172	1200		42	40	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-174	4200		42	40	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-175	640		42	8.3	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-176	620		42	5.5	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-177	2600		42	40	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-178	810		42	8.6	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-179	1100		42	6.0	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-180/193	11000	E	84	32	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-181	330		42	33	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-182	330		42	7.7	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-183	2900		42	30	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-184	530		42	6.2	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-185	36	U	42	36	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-186	37	J q	42	5.9	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1

Client Sample ID: P-B-11_SS
Date Collected: 12/11/13 12:15
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-11
Matrix: Solid
Percent Solids: 94.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-187	3500		42	8.0	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-188	280		42	6.0	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-189	790	G	18	18	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-190	1400		42	30	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-191	500		42	29	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-192	380		42	30	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-194	2100	G	51	51	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-195	780	G	47	47	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-196	2600		42	23	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-197	1600		42	16	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-198/199	3100		84	24	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-200	510		42	16	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-201	1600		42	16	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-202	710		42	19	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-203	1700		42	22	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-204	980		42	16	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-205	1200		42	36	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-206	9700	E G	51	51	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-207	11000	E	42	36	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-208	7100	E	42	42	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
PCB-209	560000	E G	60	60	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
Total Monochlorobiphenyls	88	J B	420	1.3	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
Total Dichlorobiphenyls	750		420	21	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
Total Trichlorobiphenyls	1300	B q	420	10	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
Total Tetrachlorobiphenyls	75000	B q	420	46	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
Total Pentachlorobiphenyls	400000	q G	670	670	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
Total Hexachlorobiphenyls	230000		420	220	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
Total Heptachlorobiphenyls	42000	q	420	23	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
Total Octachlorobiphenyls	17000		420	26	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
Total Nonachlorobiphenyls	28000		420	43	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1
Polychlorinated biphenyls, Total	1400000	B q	420	110	pg/g	☼	01/20/14 12:06	02/07/14 05:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*28*		*5 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-15L	*28*		*5 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-123L	*18*		*10 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-114L	*17*		*10 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-202L	*14*		*10 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-3L	*33*		*5 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-118L	*18*		*10 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-126L	*19*		*10 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-206L	*14*		*10 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-169L	*18*		*10 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-37L	*22*		*5 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-19L	*29*		*5 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-188L	*14*		*10 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-54L	*20*		*5 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-156L/157L	*17*		*10 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-167L	*17*		*10 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*
PCB-209L	*15*		*10 - 145*	*01/20/14 12:06*	*02/07/14 05:26*	*1*

Client Sample ID: P-B-11_SS
Date Collected: 12/11/13 12:15
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-11
Matrix: Solid
Percent Solids: 94.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-189L	14		10 - 145	01/20/14 12:06	02/07/14 05:26	1
PCB-105L	19		10 - 145	01/20/14 12:06	02/07/14 05:26	1
PCB-208L	15		10 - 145	01/20/14 12:06	02/07/14 05:26	1
PCB-1L	32		5 - 145	01/20/14 12:06	02/07/14 05:26	1
PCB-104L	16		10 - 145	01/20/14 12:06	02/07/14 05:26	1
PCB-81L	20		10 - 145	01/20/14 12:06	02/07/14 05:26	1
PCB-77L	21		10 - 145	01/20/14 12:06	02/07/14 05:26	1
PCB-205L	14		10 - 145	01/20/14 12:06	02/07/14 05:26	1
PCB-155L	15		10 - 145	01/20/14 12:06	02/07/14 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	57		5 - 145	01/20/14 12:06	02/07/14 05:26	1
PCB-111L	73		10 - 145	01/20/14 12:06	02/07/14 05:26	1
PCB-178L	83		10 - 145	01/20/14 12:06	02/07/14 05:26	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8900**		100	70	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Antimony	3.2	U	5.0	3.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Barium	**160**		25	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Beryllium	0.84	U	2.5	0.84	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Cadmium	0.50	U	2.5	0.50	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Calcium	**17000**		1200	66	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Chromium	**76**		5.0	1.5	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Cobalt	**13**	**J**	25	4.7	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Copper	**1000**		12	3.6	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Iron	**12000**		50	15	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Lead	**21**		5.0	0.86	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Magnesium	**6400**		500	41	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Manganese	**1300**		5.0	0.77	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Nickel	**24**		20	1.1	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Potassium	3400	U	5000	3400	mg/Kg	☼	12/27/13 10:01	01/14/14 21:35	10
Selenium	1.4	U	7.5	1.4	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Silver	1.2	U	5.0	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Sodium	470	U	1000	470	mg/Kg	☼	12/27/13 10:01	01/14/14 21:35	10
Titanium	**1100**		10	3.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Vanadium	**150**		25	6.3	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5
Zinc	**51**		25	9.9	mg/Kg	☼	12/27/13 10:01	01/10/14 02:20	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.7**		5.0	1.3	mg/Kg	☼	12/27/13 10:07	01/03/14 03:52	10
Niobium	**41**		12	1.9	mg/Kg	☼	12/27/13 10:07	01/03/14 03:52	10
Thallium	0.76	U	2.5	0.76	mg/Kg	☼	12/27/13 10:07	01/03/14 03:52	10
Uranium	**3.8**		0.50	0.099	mg/Kg	☼	12/27/13 10:07	01/03/14 03:52	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.052**		0.034	0.011	mg/Kg	☼	12/19/13 09:05	12/19/13 17:59	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: P-B-11_SS

Lab Sample ID: 680-97124-11
Date Collected: 12/11/13 12:15
Matrix: Solid
Date Received: 12/14/13 12:00
Percent Solids: 94.5

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.63	H	0.21	0.043	mg/Kg	☼		01/15/14 10:40	1
Sulfate	26	H	5.3	0.53	mg/Kg	☼		01/15/14 10:40	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150	H	43	4.3	mg/Kg	☼		01/15/14 10:55	20

Client Sample ID: P-B-11_SUB

Lab Sample ID: 680-97124-12
Date Collected: 12/11/13 13:15
Matrix: Solid
Date Received: 12/14/13 12:00
Percent Solids: 91.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	24000		100	72	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Antimony	3.3	U	5.1	3.3	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Barium	170		26	1.3	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Beryllium	1.9	J	2.6	0.87	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Cadmium	0.51	U	2.6	0.51	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Calcium	4400		1300	68	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Chromium	170		5.1	1.6	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Cobalt	27		26	4.8	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Copper	89		13	3.7	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Iron	14000		51	15	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Lead	7.9		5.1	0.88	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Magnesium	7600		510	43	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Manganese	170		5.1	0.79	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Nickel	320		21	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Potassium	3500	U	5100	3500	mg/Kg	☼	12/27/13 10:01	01/14/14 21:39	10
Selenium	1.5	U	7.7	1.5	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Silver	1.2	U	5.1	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Sodium	480	U	1000	480	mg/Kg	☼	12/27/13 10:01	01/14/14 21:39	10
Titanium	540		10	3.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Vanadium	3300		26	6.5	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5
Zinc	130		26	10	mg/Kg	☼	12/27/13 10:01	01/10/14 02:24	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3		5.1	1.3	mg/Kg	☼	12/27/13 10:07	01/03/14 03:59	10
Niobium	2.0	U	13	2.0	mg/Kg	☼	12/27/13 10:07	01/03/14 03:59	10
Thallium	0.78	U	2.6	0.78	mg/Kg	☼	12/27/13 10:07	01/03/14 03:59	10
Uranium	16		0.51	0.10	mg/Kg	☼	12/27/13 10:07	01/03/14 03:59	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.031	0.010	mg/Kg	☼	12/19/13 09:05	12/19/13 18:01	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	12	H	4.4	0.88	mg/Kg	☼		01/15/14 12:54	20
Chloride	310	H	44	4.4	mg/Kg	☼		01/15/14 12:54	20
Sulfate	260	H	110	11	mg/Kg	☼		01/15/14 12:54	20

Client Sample ID: P-B-10_SS
Date Collected: 12/11/13 10:10
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-13
Matrix: Solid
Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Acenaphthylene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Anthracene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Benzo[a]anthracene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Benzo[b]fluoranthene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Benzo[k]fluoranthene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Benzo[g,h,i]perylene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Benzo[a]pyrene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Chrysene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Dibenz(a,h)anthracene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Fluoranthene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Fluorene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Indeno[1,2,3-cd]pyrene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Naphthalene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Phenanthrene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1
Pyrene	36	U	360	36	ug/Kg	☼	12/18/13 11:29	12/19/13 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*75*		*53 - 97*	*12/18/13 11:29*	*12/19/13 02:00*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*46 - 111*	*12/18/13 11:29*	*12/19/13 02:00*	*1*
Nitrobenzene-d5 (Surr)	*69*		*55 - 98*	*12/18/13 11:29*	*12/19/13 02:00*	*1*
Phenol-d5 (Surr)	*69*		*54 - 101*	*12/18/13 11:29*	*12/19/13 02:00*	*1*
Terphenyl-d14 (Surr)	*65*		*58 - 123*	*12/18/13 11:29*	*12/19/13 02:00*	*1*
2-Fluorobiphenyl (Surr)	*71*		*56 - 97*	*12/18/13 11:29*	*12/19/13 02:00*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**37**	**J B**	210	2.5	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-2	**41**	**J**	210	2.4	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-3	**140**	**J**	210	2.5	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-4	71	U	210	71	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-5	36	U	210	36	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-6	**40**	**J**	210	36	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-7	34	U	210	34	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-8	**110**	**J**	210	35	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-9	38	U	210	38	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-10	42	U	210	42	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-11	**100**	**J**	210	37	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-12/13	**160**	**J**	420	38	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-14	31	U	210	31	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-15	**610**		210	37	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-16	**53**	**J**	210	6.4	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-17	**52**	**J**	210	4.5	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-18/30	**110**	**J**	420	3.8	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-19	**20**	**J**	210	5.6	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-20/28	**430**		420	16	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-21/33	**120**	**J**	420	15	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-22	**91**	**J**	210	18	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-23	15	U	210	15	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-24	**12**	**J**	210	3.3	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: P-B-10_SS
Date Collected: 12/11/13 10:10
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-13
Matrix: Solid
Percent Solids: 91.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-25	41	J	210	15	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-26/29	65	J	420	16	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-27	16	J	210	3.3	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-31	250		210	15	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-32	37	J	210	2.6	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-34	19	J	210	16	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-35	88	J	210	18	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-36	54	J	210	16	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-37	260		210	19	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-38	17	U	210	17	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-39	46	J	210	16	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-40/71	580		420	12	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-41	15	U	210	15	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-42	260		210	13	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-43	57	J	210	13	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-44/47/65	2900	B	640	11	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-45	73	J	210	13	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-46	14	U	210	14	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-48	160	J	210	12	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-49/69	1400		420	9.7	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-50/53	160	J	420	11	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-51	29	J	210	11	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-52	7800	B	210	12	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-54	6.8	J	210	3.2	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-55	57	U	210	57	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-56	800		210	62	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-57	56	U	210	56	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-58	56	U	210	56	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-59/62/75	140	J	640	8.6	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-60	350		210	59	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-61/70/74/76	6200		850	55	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-63	87	J	210	52	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-64	800		210	8.1	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-66	2400		210	62	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-67	62	J	210	52	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-68	52	J	210	50	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-72	67	J	210	54	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-73	9.2	U	210	9.2	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-77	350	G	68	68	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-78	63	U	210	63	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-79	290		210	55	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-80	53	U	210	53	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-81	66	U G	66	66	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-82	1700	G	300	300	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-83	570	G	320	320	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-84	3000	G	270	270	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-85/116/117	2300		640	200	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-86/87/97/108/119/125	9600		1300	200	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-88/91	1400		420	220	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: P-B-10_SS
Date Collected: 12/11/13 10:10
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-13
Matrix: Solid
Percent Solids: 91.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-89	250	U G	250	250	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-90/101/113	**14000**		640	200	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-92	**2200**	**G**	240	240	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-93/100	230	U	420	230	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-107/124	**500**		420	190	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-94	240	U G	240	240	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-95	**9300**	**G**	220	220	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-96	**46**	**J**	210	1.6	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-98/102	**260**	**J**	420	210	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-99	**7000**	**G**	240	240	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-103	210	U	210	210	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-104	**14**	**J**	210	1.7	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-105	**6800**	**G**	210	210	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-106	200	U	210	200	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-110/115	**18000**		420	180	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-109	**870**		210	170	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-111	170	U	210	170	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-112	160	U	210	160	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-114	**380**	**G**	200	200	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-115	**18000**		420	180	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-118	**15000**	**G**	190	190	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-120	180	U	210	180	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-121	160	U	210	160	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-122	210	U	210	210	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-123	**220**	**G**	200	200	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-126	**280**	**G**	230	230	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-127	200	U	210	200	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-128/166	**3000**		420	110	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-129/138/163	**20000**		640	110	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-130	**1100**		210	140	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-131	140	U	210	140	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-132	**5100**		210	130	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-133	130	U	210	130	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-134/143	**690**		420	130	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-135/151	**4300**		420	110	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-136	**1400**		210	83	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-137	**910**		210	110	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-139/140	**270**	**J**	420	110	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-141	**3400**		210	120	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-142	130	U	210	130	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-144	**690**		210	110	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-145	81	U	210	81	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-146	**2100**		210	120	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-147/149	**11000**		420	110	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-148	110	U	210	110	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-150	75	U	210	75	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-152	77	U	210	77	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-153/168	**15000**		420	94	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-154	**140**	**J**	210	99	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: P-B-10_SS
Date Collected: 12/11/13 10:10
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-13
Matrix: Solid
Percent Solids: 91.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-155	89	U	210	89	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-156/157	2700	G	48	48	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-158	2000		210	86	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-159	210		210	40	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-160	99	U	210	99	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-161	86	U	210	86	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-162	190	J	210	38	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-164	1300		210	95	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-165	99	U	210	99	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-167	920	G	38	38	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-169	42	U G	42	42	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-170	5200		210	25	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-171/173	2000		420	23	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-172	1100		210	24	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-174	5400		210	24	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-175	410		210	5.8	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-176	600		210	3.9	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-177	3000		210	24	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-178	940		210	6.1	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-179	1600		210	4.3	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-180/193	13000		420	19	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-181	130	J	210	20	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-182	160	J	210	5.4	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-183	3200		210	18	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-184	250		210	4.4	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-185	570		210	21	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-186	42	J	210	4.1	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-187	5700		210	5.6	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-188	120	J	210	4.3	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-189	380		21	7.0	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-190	1100		210	18	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-191	320		210	17	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-192	18	U	210	18	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-194	2600		210	23	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-195	860		210	21	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-196	2100		210	28	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-197	770		210	19	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-198/199	3400		420	29	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-200	410		210	19	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-201	890		210	19	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-202	580		210	22	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-203	2100		210	26	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-204	450		210	19	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-205	590		210	16	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-206	5800		210	15	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-207	4300		210	11	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-208	2900		210	13	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
PCB-209	150000	E	210	10	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
Total Monochlorobiphenyls	220	J B	2100	2.5	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1

Client Sample ID: P-B-10_SS
Date Collected: 12/11/13 10:10
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-13
Matrix: Solid
Percent Solids: 91.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	1000	J	2100	39	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
Total Trichlorobiphenyls	1800	J	2100	12	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
Total Tetrachlorobiphenyls	25000	B	2100	34	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
Total Pentachlorobiphenyls	94000		2100	200	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
Total Hexachlorobiphenyls	76000		2100	97	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
Total Heptachlorobiphenyls	45000		2100	14	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
Total Octachlorobiphenyls	15000		2100	22	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
Total Nonachlorobiphenyls	13000		2100	13	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1
Polychlorinated biphenyls, Total	420000	B	2100	44	pg/g	☼	01/24/14 12:53	02/04/14 19:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*50*		*5 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-15L	*68*		*5 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-123L	*85*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-114L	*85*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-202L	*91*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-3L	*53*		*5 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-118L	*87*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-126L	*93*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-206L	*94*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-169L	*98*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-37L	*67*		*5 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-19L	*66*		*5 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-188L	*80*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-54L	*54*		*5 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-156L/157L	*86*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-167L	*85*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-209L	*90*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-189L	*85*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-105L	*89*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-208L	*97*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-1L	*43*		*5 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-104L	*63*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-81L	*81*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-77L	*82*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-205L	*92*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-155L	*63*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*62*		*5 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-111L	*83*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*
PCB-178L	*88*		*10 - 145*	*01/24/14 12:53*	*02/04/14 19:45*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	10	J q H	11	2.8	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
1,2,3,7,8-PeCDD	43	J H	53	7.0	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
1,2,3,7,8-PeCDF	480	H	53	28	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
2,3,4,7,8-PeCDF	260	H	53	31	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
1,2,3,4,7,8-HxCDD	30	J q H	53	3.2	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
1,2,3,6,7,8-HxCDD	73	H	53	3.1	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1

Client Sample ID: P-B-10_SS
Date Collected: 12/11/13 10:10
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-13
Matrix: Solid
Percent Solids: 91.3

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-HxCDD	57	H	53	2.9	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
1,2,3,4,7,8-HxCDF	1300	H	53	50	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
1,2,3,6,7,8-HxCDF	720	H	53	46	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
1,2,3,7,8,9-HxCDF	100	G H	55	55	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
2,3,4,6,7,8-HxCDF	170	H	53	50	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
1,2,3,4,6,7,8-HpCDD	250	H	53	2.4	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
1,2,3,4,6,7,8-HpCDF	3300	H	53	49	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
1,2,3,4,7,8,9-HpCDF	1200	G H	61	61	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
OCDD	380	H	110	2.9	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1
OCDF	25000	H	110	29	pg/g	☼	01/24/14 12:46	02/01/14 05:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*102*		*40 - 135*	*01/24/14 12:46*	*02/01/14 05:54*	*1*
13C-2,3,7,8-TCDD	*95*		*40 - 135*	*01/24/14 12:46*	*02/01/14 05:54*	*1*
13C-1,2,3,7,8-PeCDD	*93*		*40 - 135*	*01/24/14 12:46*	*02/01/14 05:54*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*108*		*40 - 135*	*01/24/14 12:46*	*02/01/14 05:54*	*1*
13C-1,2,3,7,8-PeCDF	*92*		*40 - 135*	*01/24/14 12:46*	*02/01/14 05:54*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*115*		*40 - 135*	*01/24/14 12:46*	*02/01/14 05:54*	*1*
13C-OCDD	*120*		*40 - 135*	*01/24/14 12:46*	*02/01/14 05:54*	*1*
13C-1,2,3,4,7,8-HxCDF	*92*		*40 - 135*	*01/24/14 12:46*	*02/01/14 05:54*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	280	H	11	4.8	pg/g	☼	01/24/14 12:46	02/07/14 20:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*94*		*40 - 135*	*01/24/14 12:46*	*02/07/14 20:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6400		110	74	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Antimony	3.4	U	5.3	3.4	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Barium	160		26	1.3	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Beryllium	0.89	U	2.6	0.89	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Cadmium	0.53	U	2.6	0.53	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Calcium	26000		1300	70	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Chromium	210		5.3	1.6	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Cobalt	8.0	J	26	4.9	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Copper	34		13	3.8	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Iron	11000		53	16	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Lead	30		5.3	0.90	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Magnesium	6200		530	44	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Manganese	770		5.3	0.81	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Nickel	28		21	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Potassium	3500	U	5300	3500	mg/Kg	☼	12/27/13 10:01	01/14/14 21:42	10
Selenium	1.5	U	7.9	1.5	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Silver	1.6	J	5.3	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Sodium	940	J	1100	490	mg/Kg	☼	12/27/13 10:01	01/14/14 21:42	10
Titanium	1700		11	3.3	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Vanadium	460		26	6.6	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5
Zinc	43		26	10	mg/Kg	☼	12/27/13 10:01	01/10/14 02:28	5

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: P-B-10_SS
Date Collected: 12/11/13 10:10
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-13
Matrix: Solid
Percent Solids: 91.3

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		5.3	1.4	mg/Kg	☼	12/27/13 10:07	01/03/14 04:06	10
Niobium	83		13	2.0	mg/Kg	☼	12/27/13 10:07	01/03/14 04:06	10
Thallium	0.80	U	2.6	0.80	mg/Kg	☼	12/27/13 10:07	01/03/14 04:06	10
Uranium	9.3		0.53	0.10	mg/Kg	☼	12/27/13 10:07	01/03/14 04:06	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.0		0.66	0.22	mg/Kg	☼	12/19/13 09:05	12/20/13 07:20	20

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	79	H	4.4	0.88	mg/Kg	☼		01/15/14 13:39	20
Sulfate	2100	H	110	11	mg/Kg	☼		01/15/14 13:39	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5000	H	220	22	mg/Kg	☼		01/15/14 13:54	100

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	115		10.0	5.38	pCi/g		01/08/14 10:52	01/08/14 19:51	1
Gross Beta	52.9		10.0	4.49	pCi/g		01/08/14 10:52	01/08/14 19:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.62			0.193	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Bismuth-212	2.44			1.06	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Bismuth-214	2.47			0.177	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Bismuth-210M	-0.0349	U		0.145	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Cesium-134	0.0509	U		0.373	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Cesium-137	-0.0178	U		0.102	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Cobalt-57	0.0290	U		0.0752	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Cobalt-60	0.00697	U		0.0843	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Lead-212	2.56			0.150	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Lead-214	2.45			0.230	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Potassium-40	24.3			0.754	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Protactinium-231	1.58	U		2.90	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Protactinium-234	-0.171	U		0.429	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Radium-224	3.07			2.66	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Thallium-208	0.872			0.101	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Thorium-227	-0.327	U		0.781	pCi/g		12/23/13 16:53	01/14/14 21:16	1
Thorium-234	3.85			2.36	pCi/g		12/23/13 16:53	01/14/14 21:16	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	3.35		1.00	0.0966	pCi/g		12/26/13 10:52	01/20/14 19:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.3*		*40 - 110*	*12/26/13 10:52*	*01/20/14 19:39*	*1*

Client Sample ID: P-B-10_SS

Lab Sample ID: 680-97124-13

Date Collected: 12/11/13 10:10

Matrix: Solid

Date Received: 12/14/13 12:00

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	2.00		1.00	0.378	pCi/g		12/26/13 11:09	01/17/14 11:38	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110	12/26/13 11:09	01/17/14 11:38	1
Y Carrier	89.3		40 - 110	12/26/13 11:09	01/17/14 11:38	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	3.08		1.00	0.103	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-230	4.57		1.00	0.0728	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-232	2.94		1.00	0.0509	pCi/g		01/14/14 10:14	01/21/14 12:28	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	83.1		30 - 110	01/14/14 10:14	01/21/14 12:28	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	4.01		1.00	0.0584	pCi/g		01/14/14 10:14	01/21/14 17:47	1
Uranium-235/236	0.221		1.00	0.0636	pCi/g		01/14/14 10:14	01/21/14 17:47	1
Uranium-238	4.20		1.00	0.0510	pCi/g		01/14/14 10:14	01/21/14 17:47	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	84.5		30 - 110	01/14/14 10:14	01/21/14 17:47	1

Client Sample ID: P-B-10_SUB

Lab Sample ID: 680-97124-14

Date Collected: 12/11/13 11:40

Matrix: Solid

Date Received: 12/14/13 12:00

Percent Solids: 91.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17000		100	72	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Antimony	3.3	U	5.2	3.3	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Barium	190		26	1.3	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Beryllium	0.87	U	2.6	0.87	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Cadmium	0.52	U	2.6	0.52	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Calcium	4700		1300	69	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Chromium	1600		5.2	1.6	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Cobalt	12	J	26	4.9	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Copper	130		13	3.8	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Iron	17000		52	15	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Lead	45		5.2	0.89	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Magnesium	6900		520	43	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Manganese	120		5.2	0.80	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Nickel	200		21	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Potassium	3500	U	5200	3500	mg/Kg	☼	12/27/13 10:01	01/14/14 21:46	10
Selenium	1.5	U	7.8	1.5	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Silver	1.2	U	5.2	1.2	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Sodium	490	J	1000	490	mg/Kg	☼	12/27/13 10:01	01/14/14 21:46	10
Titanium	1600		10	3.3	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Vanadium	4200		26	6.5	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5
Zinc	86		26	10	mg/Kg	☼	12/27/13 10:01	01/10/14 02:32	5

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: P-B-10_SUB
Date Collected: 12/11/13 11:40
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-14
Matrix: Solid
Percent Solids: 91.5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		5.2	1.3	mg/Kg	☼	12/27/13 10:07	01/03/14 04:12	10
Niobium	66		13	2.0	mg/Kg	☼	12/27/13 10:07	01/03/14 04:12	10
Thallium	0.79	U	2.6	0.79	mg/Kg	☼	12/27/13 10:07	01/03/14 04:12	10
Uranium	32		0.52	0.10	mg/Kg	☼	12/27/13 10:07	01/03/14 04:12	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.033	0.011	mg/Kg	☼	12/19/13 09:05	12/19/13 18:04	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	210	H	5.5	0.55	mg/Kg	☼		01/15/14 14:09	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	26	H	4.4	0.88	mg/Kg	☼		01/15/14 14:24	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600	H	220	22	mg/Kg	☼		01/15/14 14:39	100

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	209		10.0	4.13	pCi/g		01/08/14 10:52	01/08/14 19:51	1
Gross Beta	82.9		10.0	4.39	pCi/g		01/08/14 10:52	01/08/14 19:51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.83			0.289	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Bismuth-212	3.81			1.34	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Bismuth-214	4.67			0.228	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Bismuth-210M	0.0710	U		0.152	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Cesium-134	0.0233	U		0.127	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Cesium-137	-0.0431	U		0.139	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Cobalt-57	0.0288	U		0.0964	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Cobalt-60	0.0155	U		0.115	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Lead-212	2.58			0.230	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Lead-214	5.09			0.203	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Potassium-40	23.6			0.794	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Protactinium-231	1.43	U		4.09	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Protactinium-234	-0.215	U		0.501	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Radium-224	3.05	U		3.29	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Thallium-208	1.03			0.103	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Thorium-227	-2.59	U		0.831	pCi/g		12/23/13 16:53	01/14/14 21:17	1
Thorium-234	6.79			3.17	pCi/g		12/23/13 16:53	01/14/14 21:17	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	4.62		1.00	0.106	pCi/g		12/26/13 10:52	01/20/14 19:39	1

Client Sample ID: P-B-10_SUB

Lab Sample ID: 680-97124-14

Date Collected: 12/11/13 11:40

Matrix: Solid

Date Received: 12/14/13 12:00

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110	12/26/13 10:52	01/20/14 19:39	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	2.30		1.00	0.356	pCi/g		12/26/13 11:09	01/17/14 11:38	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110	12/26/13 11:09	01/17/14 11:38	1
Y Carrier	94.6		40 - 110	12/26/13 11:09	01/17/14 11:38	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	3.31		1.00	0.0860	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-230	11.8		1.00	0.0783	pCi/g		01/14/14 10:14	01/21/14 12:28	1
Thorium-232	3.27		1.00	0.0652	pCi/g		01/14/14 10:14	01/21/14 12:28	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	75.2		30 - 110	01/14/14 10:14	01/21/14 12:28	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	10.8		1.00	0.110	pCi/g		01/14/14 10:14	01/21/14 17:47	1
Uranium-235/236	0.415		1.00	0.0876	pCi/g		01/14/14 10:14	01/21/14 17:47	1
Uranium-238	10.6		1.00	0.107	pCi/g		01/14/14 10:14	01/21/14 17:47	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	69.3		30 - 110	01/14/14 10:14	01/21/14 17:47	1

Client Sample ID: RINSATE

Lab Sample ID: 680-97124-15

Date Collected: 12/13/13 12:00

Matrix: Water

Date Received: 12/14/13 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Acenaphthylene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Anthracene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Benzo[a]anthracene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Benzo[b]fluoranthene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Benzo[k]fluoranthene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Benzo[g,h,i]perylene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Benzo[a]pyrene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Chrysene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Dibenz(a,h)anthracene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Fluoranthene	1.0	U *	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Fluorene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Indeno[1,2,3-cd]pyrene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Naphthalene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Phenanthrene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1
Pyrene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 19:40	1

Client Sample ID: RINSATE
Date Collected: 12/13/13 12:00
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-15
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*40*		*10 - 74*	*12/20/13 10:24*	*12/31/13 19:40*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*47 - 103*	*12/20/13 10:24*	*12/31/13 19:40*	*1*
Nitrobenzene-d5 (Surr)	*74*		*31 - 105*	*12/20/13 10:24*	*12/31/13 19:40*	*1*
Phenol-d5 (Surr)	*21*		*10 - 50*	*12/20/13 10:24*	*12/31/13 19:40*	*1*
Terphenyl-d14 (Surr)	*77*		*68 - 116*	*12/20/13 10:24*	*12/31/13 19:40*	*1*
2-Fluorobiphenyl (Surr)	*72*		*30 - 99*	*12/20/13 10:24*	*12/31/13 19:40*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**12**	**J q**	200	1.5	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-2	1.5	U	200	1.5	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-3	1.5	U	200	1.5	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-4	76	U	200	76	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-5	48	U	200	48	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-6	49	U	200	49	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-7	45	U	200	45	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-8	47	U	200	47	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-9	51	U	200	51	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-10	42	U	200	42	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-11	50	U	200	50	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-12/13	51	U	400	51	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-14	42	U	200	42	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-15	47	U	200	47	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-16	6.0	U	200	6.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-17	4.2	U	200	4.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-18/30	**6.1**	**J B q**	400	3.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-19	5.7	U	200	5.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-20/28	**13**	**J B**	400	3.3	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-21/33	**8.5**	**J B**	400	3.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-22	**5.2**	**J B q**	200	3.5	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-23	3.0	U	200	3.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-24	3.1	U	200	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-25	3.1	U	200	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-26/29	3.1	U	400	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-27	3.2	U	200	3.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-31	**13**	**J B**	200	3.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-32	2.5	U	200	2.5	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-34	3.1	U	200	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-35	3.6	U	200	3.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-36	3.1	U	200	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-37	3.7	U	200	3.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-38	3.4	U	200	3.4	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-39	3.2	U	200	3.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-40/71	**6.9**	**J B q**	400	2.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-41	3.7	U	200	3.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-42	**4.2**	**J B**	200	3.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-43	3.3	U	200	3.3	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-44/47/65	**23**	**J B**	600	2.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-45	3.2	U	200	3.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-46	3.4	U	200	3.4	pg/L		01/04/14 11:43	02/06/14 16:29	1

Client Sample ID: RINSATE
Date Collected: 12/13/13 12:00
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-15
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-48	2.9	U	200	2.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-49/69	**9.8**	**J B**	400	2.4	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-50/53	2.7	U	400	2.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-51	2.7	U	200	2.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-52	**31**	**J B**	200	3.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-54	3.4	U	200	3.4	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-55	2.8	U	200	2.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-56	**6.2**	**J B q**	200	3.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-57	2.7	U	200	2.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-58	2.8	U	200	2.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-59/62/75	2.1	U	600	2.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-60	**4.4**	**J**	200	2.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-61/70/74/76	**25**	**J B**	800	2.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-63	2.6	U	200	2.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-64	**7.6**	**J B q**	200	2.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-66	**15**	**J B**	200	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-67	2.6	U	200	2.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-68	2.5	U	200	2.5	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-72	2.7	U	200	2.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-73	2.2	U	200	2.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-77	3.3	U	20	3.3	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-78	3.1	U	200	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-79	2.7	U	200	2.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-80	2.6	U	200	2.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-81	3.2	U	20	3.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-82	4.5	U	200	4.5	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-83	4.9	U	200	4.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-84	4.1	U	200	4.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-85/116/117	**4.0**	**J q**	600	3.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-86/87/97/108/119/125	**14**	**J**	1200	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-88/91	3.4	U	400	3.4	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-89	3.9	U	200	3.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-90/101/113	**17**	**J B**	600	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-92	3.7	U	200	3.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-93/100	3.5	U	400	3.5	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-107/124	2.8	U	400	2.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-94	3.7	U	200	3.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-95	**14**	**J B**	200	3.4	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-96	1.7	U	200	1.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-98/102	3.2	U	400	3.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-99	3.6	U	200	3.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-103	3.2	U	200	3.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-104	1.9	U	200	1.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-105	**4.9**	**J B q**	20	3.3	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-106	3.1	U	200	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-110/115	**20**	**J B**	400	2.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-109	2.6	U	200	2.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-111	2.5	U	200	2.5	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-112	2.4	U	200	2.4	pg/L		01/04/14 11:43	02/06/14 16:29	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: RINSATE
Date Collected: 12/13/13 12:00
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-15
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-114	3.1	U	20	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-115	**20**	**J B**	400	2.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-118	**10**	**J B**	20	2.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-120	2.7	U	200	2.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-121	2.5	U	200	2.5	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-122	3.2	U	200	3.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-123	2.9	U	20	2.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-126	3.7	U	20	3.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-127	3.1	U	200	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-128/166	3.7	U	400	3.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-129/138/163	**11**	**J B q**	600	3.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-130	4.9	U	200	4.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-131	4.6	U	200	4.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-132	4.4	U	200	4.4	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-133	4.4	U	200	4.4	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-134/143	4.4	U	400	4.4	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-135/151	3.9	U	400	3.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-136	2.8	U	200	2.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-137	3.9	U	200	3.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-139/140	3.7	U	400	3.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-141	4.1	U	200	4.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-142	4.3	U	200	4.3	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-144	3.9	U	200	3.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-145	2.8	U	200	2.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-146	4.1	U	200	4.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-147/149	**10**	**J B**	400	3.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-148	3.8	U	200	3.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-150	2.6	U	200	2.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-152	2.6	U	200	2.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-153/168	**6.6**	**J B**	400	3.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-154	3.4	U	200	3.4	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-155	3.0	U	200	3.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-156/157	3.1	U	40	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-158	2.9	U	200	2.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-159	2.6	U	200	2.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-160	3.4	U	200	3.4	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-161	2.9	U	200	2.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-162	2.5	U	200	2.5	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-164	3.3	U	200	3.3	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-165	3.4	U	200	3.4	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-167	2.4	U	20	2.4	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-169	2.9	U	20	2.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-170	2.3	U	200	2.3	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-171/173	2.2	U	400	2.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-172	2.2	U	200	2.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-174	2.2	U	200	2.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-175	4.0	U	200	4.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-176	2.7	U	200	2.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-177	2.2	U	200	2.2	pg/L		01/04/14 11:43	02/06/14 16:29	1

Client Sample ID: RINSATE
Date Collected: 12/13/13 12:00
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-15
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-178	4.1	U	200	4.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-179	2.9	U	200	2.9	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-180/193	**3.8**	**J B**	400	1.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-181	1.8	U	200	1.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-182	3.7	U	200	3.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-183	1.6	U	200	1.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-184	3.0	U	200	3.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-185	2.0	U	200	2.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-186	2.8	U	200	2.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-187	3.8	U	200	3.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-188	3.0	U	200	3.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-189	2.8	U	20	2.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-190	1.7	U	200	1.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-191	1.6	U	200	1.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-192	1.7	U	200	1.7	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-194	3.5	U	200	3.5	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-195	3.2	U	200	3.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-196	3.1	U	200	3.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-197	2.0	U	200	2.0	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-198/199	3.2	U	400	3.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-200	2.1	U	200	2.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-201	2.1	U	200	2.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-202	2.6	U	200	2.6	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-203	2.8	U	200	2.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-204	2.1	U	200	2.1	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-205	2.3	U	200	2.3	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-206	2.3	U	200	2.3	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-207	1.8	U	200	1.8	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-208	2.2	U	200	2.2	pg/L		01/04/14 11:43	02/06/14 16:29	1
PCB-209	**16**	**J q**	200	1.8	pg/L		01/04/14 11:43	02/06/14 16:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*47*		*5 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-3L	*57*		*5 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-4L	*50*		*5 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-15L	*75*		*5 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-19L	*64*		*5 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-37L	*78*		*5 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-54L	*55*		*5 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-77L	*85*		*10 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-81L	*85*		*10 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-104L	*52*		*10 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-105L	*80*		*10 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-114L	*77*		*10 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-118L	*80*		*10 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-123L	*79*		*10 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-126L	*82*		*10 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-155L	*61*		*10 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-156L/157L	*87*		*10 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*
PCB-167L	*85*		*10 - 145*	*01/04/14 11:43*	*02/06/14 16:29*	*1*

Client Sample ID: RINSATE
Date Collected: 12/13/13 12:00
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-15
Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	89		10 - 145	01/04/14 11:43	02/06/14 16:29	1
PCB-188L	70		10 - 145	01/04/14 11:43	02/06/14 16:29	1
PCB-189L	80		10 - 145	01/04/14 11:43	02/06/14 16:29	1
PCB-202L	79		10 - 145	01/04/14 11:43	02/06/14 16:29	1
PCB-205L	88		10 - 145	01/04/14 11:43	02/06/14 16:29	1
PCB-206L	91		10 - 145	01/04/14 11:43	02/06/14 16:29	1
PCB-208L	89		10 - 145	01/04/14 11:43	02/06/14 16:29	1
PCB-209L	96		10 - 145	01/04/14 11:43	02/06/14 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	86		5 - 145	01/04/14 11:43	02/06/14 16:29	1
PCB-111L	89		10 - 145	01/04/14 11:43	02/06/14 16:29	1
PCB-178L	97		10 - 145	01/04/14 11:43	02/06/14 16:29	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.15	U	10	0.15	pg/L		12/16/13 16:32	01/10/14 04:39	1
2,3,7,8-TCDF	**0.28**	**J B**	10	0.092	pg/L		12/16/13 16:32	01/10/14 04:39	1
1,2,3,7,8-PeCDD	0.19	U	50	0.19	pg/L		12/16/13 16:32	01/10/14 04:39	1
1,2,3,7,8-PeCDF	0.14	U	50	0.14	pg/L		12/16/13 16:32	01/10/14 04:39	1
2,3,4,7,8-PeCDF	0.15	U	50	0.15	pg/L		12/16/13 16:32	01/10/14 04:39	1
1,2,3,4,7,8-HxCDD	0.13	U	50	0.13	pg/L		12/16/13 16:32	01/10/14 04:39	1
1,2,3,6,7,8-HxCDD	0.12	U	50	0.12	pg/L		12/16/13 16:32	01/10/14 04:39	1
1,2,3,7,8,9-HxCDD	0.11	U	50	0.11	pg/L		12/16/13 16:32	01/10/14 04:39	1
1,2,3,4,7,8-HxCDF	**0.60**	**J q B**	50	0.11	pg/L		12/16/13 16:32	01/10/14 04:39	1
1,2,3,6,7,8-HxCDF	0.27	U	50	0.27	pg/L		12/16/13 16:32	01/10/14 04:39	1
1,2,3,7,8,9-HxCDF	0.12	U	50	0.12	pg/L		12/16/13 16:32	01/10/14 04:39	1
2,3,4,6,7,8-HxCDF	0.11	U	50	0.11	pg/L		12/16/13 16:32	01/10/14 04:39	1
1,2,3,4,6,7,8-HpCDD	**0.89**	**J q B**	50	0.16	pg/L		12/16/13 16:32	01/10/14 04:39	1
1,2,3,4,6,7,8-HpCDF	**1.4**	**J q B**	50	0.13	pg/L		12/16/13 16:32	01/10/14 04:39	1
1,2,3,4,7,8,9-HpCDF	0.15	U	50	0.15	pg/L		12/16/13 16:32	01/10/14 04:39	1
OCDD	**8.3**	**J B**	100	0.20	pg/L		12/16/13 16:32	01/10/14 04:39	1
OCDF	**2.6**	**J q B**	100	0.18	pg/L		12/16/13 16:32	01/10/14 04:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	85		40 - 135	12/16/13 16:32	01/10/14 04:39	1
13C-2,3,7,8-TCDF	86		40 - 135	12/16/13 16:32	01/10/14 04:39	1
13C-1,2,3,7,8-PeCDD	86		40 - 135	12/16/13 16:32	01/10/14 04:39	1
13C-1,2,3,7,8-PeCDF	86		40 - 135	12/16/13 16:32	01/10/14 04:39	1
13C-1,2,3,6,7,8-HxCDD	91		40 - 135	12/16/13 16:32	01/10/14 04:39	1
13C-1,2,3,4,7,8-HxCDF	86		40 - 135	12/16/13 16:32	01/10/14 04:39	1
13C-1,2,3,4,6,7,8-HpCDD	90		40 - 135	12/16/13 16:32	01/10/14 04:39	1
13C-1,2,3,4,6,7,8-HpCDF	91		40 - 135	12/16/13 16:32	01/10/14 04:39	1
13C-OCDD	87		40 - 135	12/16/13 16:32	01/10/14 04:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	6.0	U	10	6.0	ug/L		01/03/14 17:29	01/08/14 13:55	1
Aluminum	80	U	200	80	ug/L		01/03/14 17:29	01/08/14 13:55	1
Barium	**29**	**J**	50	4.0	ug/L		01/03/14 17:29	01/08/14 13:55	1
Beryllium	0.61	U	5.0	0.61	ug/L		01/03/14 17:29	01/08/14 13:55	1

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: RINSATE
Date Collected: 12/13/13 12:00
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**24000**		1000	110	ug/L		01/03/14 17:29	01/08/14 13:55	1
Cadmium	0.91	U	5.0	0.91	ug/L		01/03/14 17:29	01/08/14 13:55	1
Cobalt	4.9	U	50	4.9	ug/L		01/03/14 17:29	01/08/14 13:55	1
Chromium	**5.1**	**J**	10	3.1	ug/L		01/03/14 17:29	01/08/14 13:55	1
Copper	4.6	U	25	4.6	ug/L		01/03/14 17:29	01/08/14 13:55	1
Iron	**330**		100	28	ug/L		01/03/14 17:29	01/08/14 13:55	1
Potassium	**3300**	**J**	5000	1700	ug/L		01/03/14 17:29	01/08/14 13:55	1
Magnesium	**8000**		1000	130	ug/L		01/03/14 17:29	01/08/14 13:55	1
Manganese	**22**		15	3.3	ug/L		01/03/14 17:29	01/08/14 13:55	1
Sodium	**15000**		1000	320	ug/L		01/03/14 17:29	01/08/14 13:55	1
Nickel	13	U	40	13	ug/L		01/03/14 17:29	01/08/14 13:55	1
Lead	**2.4**	**J**	10	1.5	ug/L		01/03/14 17:29	01/08/14 13:55	1
Antimony	4.0	U	10	4.0	ug/L		01/03/14 17:29	01/08/14 13:55	1
Selenium	2.7	U	15	2.7	ug/L		01/03/14 17:29	01/08/14 13:55	1
Titanium	**18**	**J**	20	2.4	ug/L		01/03/14 17:29	01/08/14 13:55	1
Vanadium	**5.6**	**J**	50	4.1	ug/L		01/03/14 17:29	01/08/14 13:55	1
Zinc	**44**	**B**	20	5.2	ug/L		01/03/14 17:29	01/08/14 13:55	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		01/03/14 17:29	01/09/14 00:59	1
Niobium	2.2	U	25	2.2	ug/L		01/03/14 17:29	01/09/14 00:59	1
Thallium	0.55	U	2.0	0.55	ug/L		01/03/14 17:29	01/09/14 00:59	1
Uranium	0.23	U	1.0	0.23	ug/L		01/03/14 17:29	01/09/14 00:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		01/09/14 07:42	01/09/14 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.23**		0.020	0.0040	mg/L			12/14/13 18:07	1
Chloride	**4.8**		0.20	0.020	mg/L			12/14/13 18:07	1
Sulfate	**5.2**		0.50	0.050	mg/L			12/16/13 13:07	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.354	U	3.00	2.29	pCi/L		01/21/14 11:29	01/27/14 08:09	1
Gross Beta	**1.28**		4.00	1.06	pCi/L		01/21/14 11:29	01/27/14 08:09	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.98	U		38.6	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Bismuth-212	12.0	U		119	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Bismuth-214	5.81	U		24.2	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Bismuth-210M	0.000	U		16.5	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Cesium-134	2.80	U		9.65	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Cesium-137	-2.08	U		12.1	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Cobalt-57	3.76	U		5.48	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Cobalt-60	-3.98	U		17.2	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Lead-212	8.11	U		16.2	pCi/L		12/27/13 14:10	01/17/14 10:43	1

Client Sample ID: RINSATE
Date Collected: 12/13/13 12:00
Date Received: 12/14/13 12:00

Lab Sample ID: 680-97124-15
Matrix: Water

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Lead-214	-6.11	U		22.4	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Potassium-40	-99.8	U		192	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Protactinium-231	44.3	U		206	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Protactinium-234	-7.56	U		33.2	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Radium-224	44.2	U		173	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Thallium-208	-0.237	U		13.1	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Thorium-227	-12.6	U		57.9	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Thorium-231	10.4	U		58.7	pCi/L		12/27/13 14:10	01/17/14 10:43	1
Thorium-234	52.4	U		219	pCi/L		12/27/13 14:10	01/17/14 10:43	1

Method: 903.0 - Total Alpha-Emitting Radium Isotopes by GFPC

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.248		1.00	0.205	pCi/L		12/16/13 14:09	01/08/14 16:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*12/16/13 14:09*	*01/08/14 16:17*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.443		1.00	0.329	pCi/L		12/16/13 14:14	01/08/14 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*12/16/13 14:14*	*01/08/14 12:18*	*1*
Y Carrier	*89.0*		*40 - 110*	*12/16/13 14:14*	*01/08/14 12:18*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.572		1.00	0.195	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-230	0.425		1.00	0.198	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-232	0.375		1.00	0.199	pCi/L		01/22/14 08:57	01/23/14 22:10	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*77.5*		*30 - 110*	*01/22/14 08:57*	*01/23/14 22:10*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
U-238	-0.00415	U	1.00	0.101	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-235/236	0.0448	U	1.00	0.143	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-233/234	0.0222	U	1.00	0.0665	pCi/L		01/09/14 09:41	01/16/14 23:39	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*82.9*		*30 - 110*	*01/09/14 09:41*	*01/16/14 23:39*	*1*

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

Lab Sample ID: MB 160-92812/1-A
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Acenaphthylene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Anthracene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[a]anthracene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[b]fluoranthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[k]fluoranthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[g,h,i]perylene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[a]pyrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Chrysene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Dibenz(a,h)anthracene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Fluoranthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Fluorene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Indeno[1,2,3-cd]pyrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Naphthalene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Phenanthrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Pyrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*86*		*53 - 97*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*46 - 111*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
Nitrobenzene-d5 (Surr)	*78*		*55 - 98*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
Phenol-d5 (Surr)	*82*		*54 - 101*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
Terphenyl-d14 (Surr)	*78*		*58 - 123*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
2-Fluorobiphenyl (Surr)	*78*		*56 - 97*	*12/18/13 11:29*	*12/18/13 20:31*	*1*

Lab Sample ID: LCS 160-92812/2-A
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	3330	2730		ug/Kg		82	63 - 95
Acenaphthylene	3330	2820		ug/Kg		85	62 - 98
Anthracene	3330	2750		ug/Kg		83	63 - 100
Benzo[a]anthracene	3330	2970		ug/Kg		89	74 - 114
Benzo[b]fluoranthene	3330	2940		ug/Kg		88	68 - 109
Benzo[k]fluoranthene	3330	2800		ug/Kg		84	69 - 111
Benzo[g,h,i]perylene	3330	2820		ug/Kg		84	67 - 121
Benzo[a]pyrene	3330	2930		ug/Kg		88	63 - 103
Chrysene	3330	2750		ug/Kg		83	66 - 100
Dibenz(a,h)anthracene	3330	2880		ug/Kg		86	67 - 114
Fluoranthene	3330	2840		ug/Kg		85	63 - 101
Fluorene	3330	2700		ug/Kg		81	62 - 96
Indeno[1,2,3-cd]pyrene	3330	2870		ug/Kg		86	65 - 120
Naphthalene	3330	2540		ug/Kg		76	60 - 90
Phenanthrene	3330	2760		ug/Kg		83	63 - 99
Pyrene	3330	2890		ug/Kg		87	64 - 102

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

Lab Sample ID: LCS 160-92812/2-A
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92812

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*82*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*80*		*46 - 111*
Nitrobenzene-d5 (Surr)	*76*		*55 - 98*
Phenol-d5 (Surr)	*80*		*54 - 101*
Terphenyl-d14 (Surr)	*77*		*58 - 123*
2-Fluorobiphenyl (Surr)	*78*		*56 - 97*

Lab Sample ID: MB 160-93558/1-A
Matrix: Water
Analysis Batch: 96003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93558

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Acenaphthylene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Anthracene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Benzo[a]anthracene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Benzo[b]fluoranthene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Benzo[k]fluoranthene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Benzo[g,h,i]perylene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Benzo[a]pyrene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Chrysene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Dibenz(a,h)anthracene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Fluoranthene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Fluorene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Indeno[1,2,3-cd]pyrene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Naphthalene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Phenanthrene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1
Pyrene	1.0	U	10	1.0	ug/L		12/20/13 10:24	12/31/13 15:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*46*		*10 - 74*	*12/20/13 10:24*	*12/31/13 15:17*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*47 - 103*	*12/20/13 10:24*	*12/31/13 15:17*	*1*
Nitrobenzene-d5 (Surr)	*65*		*31 - 105*	*12/20/13 10:24*	*12/31/13 15:17*	*1*
Phenol-d5 (Surr)	*27*		*10 - 50*	*12/20/13 10:24*	*12/31/13 15:17*	*1*
Terphenyl-d14 (Surr)	*80*		*68 - 116*	*12/20/13 10:24*	*12/31/13 15:17*	*1*
2-Fluorobiphenyl (Surr)	*67*		*30 - 99*	*12/20/13 10:24*	*12/31/13 15:17*	*1*

Lab Sample ID: LCS 160-93558/2-A
Matrix: Water
Analysis Batch: 96003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93558

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	100	87.5		ug/L		87	55 - 92
Acenaphthylene	100	87.3		ug/L		87	56 - 93
Anthracene	100	89.3		ug/L		89	60 - 93
Benzo[a]anthracene	100	94.8		ug/L		95	72 - 106
Benzo[b]fluoranthene	100	93.5		ug/L		94	67 - 103
Benzo[k]fluoranthene	100	92.0		ug/L		92	66 - 107

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

Lab Sample ID: LCS 160-93558/2-A
Matrix: Water
Analysis Batch: 96003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93558

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	100	87.6		ug/L		88	63 - 117
Benzo[a]pyrene	100	90.6		ug/L		91	62 - 94
Chrysene	100	88.7		ug/L		89	64 - 94
Dibenz(a,h)anthracene	100	91.9		ug/L		92	66 - 110
Fluoranthene	100	93.8	*	ug/L		94	63 - 93
Fluorene	100	88.7		ug/L		89	60 - 89
Indeno[1,2,3-cd]pyrene	100	89.7		ug/L		90	64 - 112
Naphthalene	100	78.1		ug/L		78	52 - 88
Phenanthrene	100	90.4		ug/L		90	60 - 93
Pyrene	100	91.7		ug/L		92	58 - 102

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*50*		*10 - 74*
2,4,6-Tribromophenol (Surr)	*86*		*47 - 103*
Nitrobenzene-d5 (Surr)	*79*		*31 - 105*
Phenol-d5 (Surr)	*35*		*10 - 50*
Terphenyl-d14 (Surr)	*84*		*68 - 116*
2-Fluorobiphenyl (Surr)	*82*		*30 - 99*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 320-33192/1-A
Matrix: Water
Analysis Batch: 35054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33192

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.74	U	200	0.74	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-2	0.76	U	200	0.76	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-3	0.81	U	200	0.81	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-4	10	U	200	10	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-5	10	U	200	10	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-6	10	U	200	10	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-7	9.7	U	200	9.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-8	10	U	200	10	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-9	11	U	200	11	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-10	6.3	U	200	6.3	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-11	11	U	200	11	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-12/13	11	U	400	11	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-14	9.0	U	200	9.0	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-15	11	U	200	11	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-16	3.6	U	200	3.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-17	2.5	U	200	2.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-18/30	4.83	J	400	2.1	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-19	3.0	U	200	3.0	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-20/28	6.85	J	400	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-21/33	2.34	J q	400	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-22	2.65	J q	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-23	1.5	U	200	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33192/1-A
Matrix: Water
Analysis Batch: 35054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33192

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-24	1.8	U	200	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-25	1.5	U	200	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-26/29	1.5	U	400	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-27	1.9	U	200	1.9	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-31	8.32	J	200	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-32	1.5	U	200	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-34	1.5	U	200	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-35	1.8	U	200	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-36	1.6	U	200	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-37	2.0	U	200	2.0	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-38	1.7	U	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-39	1.6	U	200	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-40/71	3.19	J q	400	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-41	2.0	U	200	2.0	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-42	2.99	J	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-43	1.7	U	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-44/47/65	20.6	J	600	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-45	2.16	J q	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-46	1.8	U	200	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-48	1.6	U	200	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-49/69	5.06	J q	400	1.3	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-50/53	1.4	U	400	1.4	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-51	1.4	U	200	1.4	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-52	23.0	J	200	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-54	1.2	U	200	1.2	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-55	1.7	U	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-56	4.46	J	200	1.9	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-57	1.7	U	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-58	1.7	U	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-59/62/75	1.1	U	600	1.1	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-60	1.8	U	200	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-61/70/74/76	18.7	J	800	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-63	1.6	U	200	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-64	3.78	J q	200	1.1	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-66	7.13	J q	200	1.9	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-67	1.6	U	200	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-68	1.5	U	200	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-72	1.6	U	200	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-73	1.2	U	200	1.2	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-77	2.1	U	20	2.1	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-78	1.9	U	200	1.9	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-79	1.7	U	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-80	1.6	U	200	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-81	2.0	U	20	2.0	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-82	2.6	U	200	2.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-83	2.8	U	200	2.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-84	4.39	J	200	2.4	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-85/116/117	1.7	U	600	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33192/1-A
Matrix: Water
Analysis Batch: 35054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33192

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-86/87/97/108/119/125	1.8	U	1200	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-88/91	2.0	U	400	2.0	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-89	2.2	U	200	2.2	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-90/101/113	13.6	J	600	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-92	2.1	U	200	2.1	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-93/100	2.0	U	400	2.0	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-107/124	1.6	U	400	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-94	2.1	U	200	2.1	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-95	12.7	J	200	2.0	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-96	0.77	U	200	0.77	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-98/102	1.9	U	400	1.9	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-99	5.29	J	200	2.1	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-103	1.8	U	200	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-104	0.78	U	200	0.78	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-105	4.71	J q	20	1.9	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-106	1.8	U	200	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-110/115	16.1	J	400	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-109	1.5	U	200	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-111	1.5	U	200	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-112	1.4	U	200	1.4	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-114	1.8	U	20	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-118	10.5	J	20	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-120	1.6	U	200	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-121	1.5	U	200	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-122	1.8	U	200	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-123	1.7	U	20	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-126	2.2	U	20	2.2	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-127	1.8	U	200	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-128/166	1.6	U	400	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-129/138/163	11.0	J	600	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-130	2.1	U	200	2.1	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-131	2.0	U	200	2.0	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-132	3.97	J q	200	1.9	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-133	1.9	U	200	1.9	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-134/143	1.9	U	400	1.9	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-135/151	1.7	U	400	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-136	1.2	U	200	1.2	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-137	1.7	U	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-139/140	1.6	U	400	1.6	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-141	1.8	U	200	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-142	1.9	U	200	1.9	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-144	1.7	U	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-145	1.2	U	200	1.2	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-146	1.8	U	200	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-147/149	7.15	J q	400	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-148	1.7	U	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-150	1.1	U	200	1.1	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-152	1.2	U	200	1.2	pg/L		01/04/14 11:43	01/29/14 18:12	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33192/1-A
Matrix: Water
Analysis Batch: 35054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33192

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-153/168	6.80	J	400	1.4	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-154	1.5	U	200	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-155	1.3	U	200	1.3	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-156/157	1.3	U	40	1.3	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-158	1.3	U	200	1.3	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-159	1.1	U	200	1.1	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-160	1.5	U	200	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-161	1.3	U	200	1.3	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-162	1.1	U	200	1.1	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-164	1.4	U	200	1.4	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-165	1.5	U	200	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-167	1.0	U	20	1.0	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-169	1.4	U	20	1.4	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-170	1.3	U	200	1.3	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-171/173	1.2	U	400	1.2	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-172	1.2	U	200	1.2	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-174	1.74	J	200	1.2	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-175	1.9	U	200	1.9	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-176	1.2	U	200	1.2	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-177	1.2	U	200	1.2	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-178	1.9	U	200	1.9	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-179	1.4	U	200	1.4	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-180/193	2.00	J	400	0.98	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-181	1.0	U	200	1.0	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-182	1.7	U	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-183	1.92	J	200	0.90	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-184	1.4	U	200	1.4	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-185	1.1	U	200	1.1	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-186	1.3	U	200	1.3	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-187	1.8	U	200	1.8	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-188	1.4	U	200	1.4	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-189	1.7	U	20	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-190	0.91	U	200	0.91	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-191	0.88	U	200	0.88	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-192	0.92	U	200	0.92	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-194	1.9	U	200	1.9	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-195	1.7	U	200	1.7	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-196	1.3	U	200	1.3	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-197	0.88	U	200	0.88	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-198/199	1.4	U	400	1.4	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-200	0.89	U	200	0.89	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-201	0.88	U	200	0.88	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-202	1.1	U	200	1.1	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-203	1.2	U	200	1.2	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-204	0.92	U	200	0.92	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-205	1.3	U	200	1.3	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-206	1.5	U	200	1.5	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-207	1.1	U	200	1.1	pg/L		01/04/14 11:43	01/29/14 18:12	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33192/1-A
Matrix: Water
Analysis Batch: 35054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33192

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-208	1.3	U	200	1.3	pg/L		01/04/14 11:43	01/29/14 18:12	1
PCB-209	1.2	U	200	1.2	pg/L		01/04/14 11:43	01/29/14 18:12	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*56*		*5 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-15L	*73*		*5 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-123L	*75*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-114L	*75*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-3L	*60*		*5 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-118L	*77*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-126L	*77*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-202L	*77*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-169L	*83*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-206L	*89*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-37L	*70*		*5 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-19L	*61*		*5 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-188L	*65*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-54L	*55*		*5 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-156L/157L	*84*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-167L	*83*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-209L	*86*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-189L	*80*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-105L	*75*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-208L	*87*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-1L	*51*		*5 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-104L	*59*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-81L	*76*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-77L	*79*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-205L	*88*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-155L	*62*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*75*		*5 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-111L	*79*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*
PCB-178L	*81*		*10 - 145*	*01/04/14 11:43*	*01/29/14 18:12*	*1*

Lab Sample ID: LCS 320-33192/2-A
Matrix: Water
Analysis Batch: 35054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	2000	2040		pg/L		102	60 - 135
PCB-3	2000	2070		pg/L		104	60 - 135
PCB-4	2000	2140		pg/L		107	60 - 135
PCB-15	2000	1940		pg/L		97	60 - 135
PCB-19	2000	2340		pg/L		117	60 - 135
PCB-37	2000	2000		pg/L		100	60 - 135
PCB-54	2000	2330		pg/L		117	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-33192/2-A
Matrix: Water
Analysis Batch: 35054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33192

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-77			2000	2120		pg/L		106	60 - 135		
PCB-81			2000	2070		pg/L		104	60 - 135		
PCB-104			2000	2170		pg/L		108	60 - 135		
PCB-105			2000	2200		pg/L		110	60 - 135		
PCB-114			2000	2170		pg/L		109	60 - 135		
PCB-118			2000	2320		pg/L		116	60 - 135		
PCB-123			2000	2170		pg/L		109	60 - 135		
PCB-126			2000	2140		pg/L		107	60 - 135		
PCB-155			2000	2260		pg/L		113	60 - 135		
PCB-156/157			4000	4300		pg/L		108	60 - 135		
PCB-167			2000	2170	G	pg/L		108	60 - 135		
PCB-169			2000	2220	G	pg/L		111	60 - 135		
PCB-188			2000	2180		pg/L		109	60 - 135		
PCB-189			2000	2060		pg/L		103	60 - 135		
PCB-202			2000	2200		pg/L		110	60 - 135		
PCB-205			2000	2090		pg/L		104	60 - 135		
PCB-206			2000	2160		pg/L		108	60 - 135		
PCB-208			2000	2140		pg/L		107	60 - 135		
PCB-209			2000	2100		pg/L		105	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*44*		*15 - 145*
PCB-15L	*58*		*15 - 145*
PCB-123L	*67*		*40 - 145*
PCB-114L	*68*		*40 - 145*
PCB-3L	*48*		*15 - 145*
PCB-118L	*67*		*40 - 145*
PCB-126L	*69*		*40 - 145*
PCB-202L	*74*		*40 - 145*
PCB-169L	*79*		*40 - 145*
PCB-206L	*88*		*40 - 145*
PCB-37L	*60*		*15 - 145*
PCB-19L	*48*		*15 - 145*
PCB-188L	*63*		*40 - 145*
PCB-54L	*44*		*15 - 145*
PCB-156L/157L	*80*		*40 - 145*
PCB-167L	*78*		*40 - 145*
PCB-209L	*86*		*40 - 145*
PCB-189L	*78*		*40 - 145*
PCB-105L	*69*		*40 - 145*
PCB-208L	*85*		*40 - 145*
PCB-1L	*39*		*15 - 145*
PCB-104L	*52*		*40 - 145*
PCB-81L	*68*		*40 - 145*
PCB-77L	*68*		*40 - 145*
PCB-205L	*87*		*40 - 145*
PCB-155L	*59*		*40 - 145*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-33192/2-A
Matrix: Water
Analysis Batch: 35054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33192

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*64*		*5 - 145*
PCB-111L	*70*		*10 - 145*
PCB-178L	*78*		*10 - 145*

Lab Sample ID: MB 320-34244/1-A
Matrix: Solid
Analysis Batch: 35733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34244

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	3.26	J	40	0.27	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-2	0.988	J	40	0.26	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-3	0.381	J q	40	0.26	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-4	7.5	U	40	7.5	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-5	6.0	U	40	6.0	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-6	6.0	U	40	6.0	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-7	5.6	U	40	5.6	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-8	5.9	U	40	5.9	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-9	6.3	U	40	6.3	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-10	4.4	U	40	4.4	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-11	6.2	U	40	6.2	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-12/13	6.3	U	80	6.3	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-14	5.2	U	40	5.2	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-15	6.1	U	40	6.1	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-16	0.96	U	40	0.96	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-17	0.68	U	40	0.68	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-18/30	0.58	U	80	0.58	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-19	0.86	U	40	0.86	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-20/28	0.597	J q	80	0.36	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-21/33	0.33	U	80	0.33	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-22	0.38	U	40	0.38	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-23	0.33	U	40	0.33	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-24	0.50	U	40	0.50	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-25	0.34	U	40	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-26/29	0.34	U	80	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-27	0.51	U	40	0.51	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-31	0.638	J	40	0.33	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-32	0.39	U	40	0.39	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-34	0.34	U	40	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-35	0.39	U	40	0.39	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-36	0.34	U	40	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-37	0.42	U	40	0.42	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-38	0.37	U	40	0.37	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-39	0.35	U	40	0.35	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-40/71	0.36	U	80	0.36	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-41	0.46	U	40	0.46	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-42	0.40	U	40	0.40	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-43	0.41	U	40	0.41	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-44/47/65	1.74	J q	120	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-34244/1-A
Matrix: Solid
Analysis Batch: 35733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34244

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-45	0.40	U	40	0.40	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-46	0.43	U	40	0.43	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-48	0.36	U	40	0.36	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-49/69	0.30	U	80	0.30	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-50/53	0.34	U	80	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-51	0.33	U	40	0.33	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-52	0.749	J	40	0.37	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-54	0.38	U	40	0.38	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-55	0.37	U	40	0.37	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-56	0.40	U	40	0.40	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-57	0.37	U	40	0.37	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-58	0.37	U	40	0.37	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-59/62/75	0.26	U	120	0.26	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-60	0.39	U	40	0.39	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-61/70/74/76	0.36	U	160	0.36	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-63	0.34	U	40	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-64	0.25	U	40	0.25	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-66	0.486	J q	40	0.41	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-67	0.34	U	40	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-68	0.33	U	40	0.33	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-72	0.36	U	40	0.36	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-73	0.28	U	40	0.28	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-77	0.46	U	4.0	0.46	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-78	0.42	U	40	0.42	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-79	0.36	U	40	0.36	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-80	0.35	U	40	0.35	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-81	0.46	U	4.0	0.46	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-82	0.78	U	40	0.78	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-83	0.85	U	40	0.85	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-84	0.71	U	40	0.71	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-85/116/117	0.52	U	120	0.52	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-86/87/97/108/119/125	0.54	U	240	0.54	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-88/91	0.59	U	80	0.59	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-89	0.67	U	40	0.67	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-90/101/113	0.54	U	120	0.54	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-92	0.63	U	40	0.63	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-93/100	0.60	U	80	0.60	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-107/124	0.49	U	80	0.49	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-94	0.63	U	40	0.63	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-95	0.59	U	40	0.59	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-96	0.19	U	40	0.19	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-98/102	0.56	U	80	0.56	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-99	0.63	U	40	0.63	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-103	0.55	U	40	0.55	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-104	0.18	U	40	0.18	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-105	0.58	U	4.0	0.58	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-106	0.54	U	40	0.54	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-110/115	0.48	U	80	0.48	pg/g		01/20/14 12:06	02/07/14 02:55	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-34244/1-A
Matrix: Solid
Analysis Batch: 35733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34244

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-109	0.46	U	40	0.46	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-111	0.44	U	40	0.44	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-112	0.42	U	40	0.42	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-114	0.53	U	4.0	0.53	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-118	0.51	U	4.0	0.51	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-120	0.47	U	40	0.47	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-121	0.44	U	40	0.44	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-122	0.55	U	40	0.55	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-123	0.53	U	4.0	0.53	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-126	0.65	U	4.0	0.65	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-127	0.54	U	40	0.54	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-128/166	0.41	U	80	0.41	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-129/138/163	0.43	U	120	0.43	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-130	0.54	U	40	0.54	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-131	0.51	U	40	0.51	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-132	0.48	U	40	0.48	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-133	0.48	U	40	0.48	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-134/143	0.49	U	80	0.49	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-135/151	0.43	U	80	0.43	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-136	0.31	U	40	0.31	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-137	0.43	U	40	0.43	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-139/140	0.41	U	80	0.41	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-141	0.46	U	40	0.46	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-142	0.47	U	40	0.47	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-144	0.43	U	40	0.43	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-145	0.30	U	40	0.30	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-146	0.45	U	40	0.45	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-147/149	0.42	U	80	0.42	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-148	0.42	U	40	0.42	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-150	0.28	U	40	0.28	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-152	0.29	U	40	0.29	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-153/168	0.36	U	80	0.36	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-154	0.37	U	40	0.37	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-155	0.30	U	40	0.30	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-156/157	0.42	U	8.0	0.42	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-158	0.32	U	40	0.32	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-159	0.34	U	40	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-160	0.37	U	40	0.37	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-161	0.33	U	40	0.33	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-162	0.33	U	40	0.33	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-164	0.36	U	40	0.36	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-165	0.38	U	40	0.38	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-167	0.34	U	4.0	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-169	0.39	U	4.0	0.39	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-170	0.36	U	40	0.36	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-171/173	0.33	U	80	0.33	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-172	0.34	U	40	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-174	0.34	U	40	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-34244/1-A
Matrix: Solid
Analysis Batch: 35733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34244

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-175	0.48	U	40	0.48	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-176	0.32	U	40	0.32	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-177	0.34	U	40	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-178	0.50	U	40	0.50	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-179	0.35	U	40	0.35	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-180/193	0.27	U	80	0.27	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-181	0.28	U	40	0.28	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-182	0.45	U	40	0.45	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-183	0.25	U	40	0.25	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-184	0.36	U	40	0.36	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-185	0.30	U	40	0.30	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-186	0.34	U	40	0.34	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-187	0.47	U	40	0.47	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-188	0.38	U	40	0.38	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-189	0.39	U	4.0	0.39	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-190	0.25	U	40	0.25	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-191	0.24	U	40	0.24	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-192	0.25	U	40	0.25	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-194	0.43	U	40	0.43	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-195	0.40	U	40	0.40	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-196	0.32	U	40	0.32	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-197	0.21	U	40	0.21	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-198/199	0.33	U	80	0.33	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-200	0.21	U	40	0.21	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-201	0.21	U	40	0.21	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-202	0.27	U	40	0.27	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-203	0.29	U	40	0.29	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-204	0.22	U	40	0.22	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-205	0.28	U	40	0.28	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-206	0.42	U	40	0.42	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-207	0.33	U	40	0.33	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-208	0.42	U	40	0.42	pg/g		01/20/14 12:06	02/07/14 02:55	1
PCB-209	0.29	U	40	0.29	pg/g		01/20/14 12:06	02/07/14 02:55	1
Total Monochlorobiphenyls	4.63	J q	400	0.26	pg/g		01/20/14 12:06	02/07/14 02:55	1
Total Dichlorobiphenyls	7.5	U	400	7.5	pg/g		01/20/14 12:06	02/07/14 02:55	1
Total Trichlorobiphenyls	1.23	J q	400	0.46	pg/g		01/20/14 12:06	02/07/14 02:55	1
Total Tetrachlorobiphenyls	2.97	J q	400	0.37	pg/g		01/20/14 12:06	02/07/14 02:55	1
Total Pentachlorobiphenyls	0.85	U	400	0.85	pg/g		01/20/14 12:06	02/07/14 02:55	1
Total Hexachlorobiphenyls	0.54	U	400	0.54	pg/g		01/20/14 12:06	02/07/14 02:55	1
Total Heptachlorobiphenyls	0.50	U	400	0.50	pg/g		01/20/14 12:06	02/07/14 02:55	1
Total Octachlorobiphenyls	0.43	U	400	0.43	pg/g		01/20/14 12:06	02/07/14 02:55	1
Total Nonachlorobiphenyls	0.42	U	400	0.42	pg/g		01/20/14 12:06	02/07/14 02:55	1
Polychlorinated biphenyls, Total	8.83	J q	400	1.2	pg/g		01/20/14 12:06	02/07/14 02:55	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*67*		*5 - 145*	*01/20/14 12:06*	*02/07/14 02:55*	*1*
PCB-15L	*94*		*5 - 145*	*01/20/14 12:06*	*02/07/14 02:55*	*1*
PCB-123L	*108*		*10 - 145*	*01/20/14 12:06*	*02/07/14 02:55*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-34244/1-A
Matrix: Solid
Analysis Batch: 35733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34244

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-114L	107		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-3L	78		5 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-118L	110		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-126L	114		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-202L	101		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-169L	127		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-206L	130		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-37L	103		5 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-19L	86		5 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-188L	91		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-54L	77		5 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-156L/157L	119		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-167L	112		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-209L	128		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-189L	114		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-105L	108		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-208L	117		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-1L	60		5 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-104L	83		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-81L	105		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-77L	111		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-205L	124		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-155L	92		10 - 145	01/20/14 12:06	02/07/14 02:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	90		5 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-111L	99		10 - 145	01/20/14 12:06	02/07/14 02:55	1
PCB-178L	106		10 - 145	01/20/14 12:06	02/07/14 02:55	1

Lab Sample ID: LCS 320-34244/2-A
Matrix: Solid
Analysis Batch: 35733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	199		pg/g		99	60 - 135
PCB-3	200	198		pg/g		99	60 - 135
PCB-4	200	205		pg/g		102	60 - 135
PCB-15	200	188		pg/g		94	60 - 135
PCB-19	200	181		pg/g		91	60 - 135
PCB-37	200	201		pg/g		100	60 - 135
PCB-54	200	197		pg/g		98	60 - 135
PCB-77	200	196		pg/g		98	60 - 135
PCB-81	200	193		pg/g		96	60 - 135
PCB-104	200	210		pg/g		105	60 - 135
PCB-105	200	200		pg/g		100	60 - 135
PCB-114	200	207		pg/g		104	60 - 135
PCB-118	200	199		pg/g		99	60 - 135
PCB-123	200	195		pg/g		97	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-34244/2-A
Matrix: Solid
Analysis Batch: 35733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34244

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-126			200	194		pg/g		97	60 - 135		
PCB-155			200	199		pg/g		99	60 - 135		
PCB-156/157			400	405		pg/g		101	60 - 135		
PCB-167			200	199		pg/g		100	60 - 135		
PCB-169			200	198		pg/g		99	60 - 135		
PCB-188			200	194		pg/g		97	60 - 135		
PCB-189			200	197		pg/g		99	60 - 135		
PCB-202			200	196		pg/g		98	60 - 135		
PCB-205			200	187		pg/g		94	60 - 135		
PCB-206			200	199		pg/g		99	60 - 135		
PCB-208			200	194		pg/g		97	60 - 135		
PCB-209			200	190		pg/g		95	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*49*		*15 - 145*
PCB-15L	*59*		*15 - 145*
PCB-123L	*51*		*40 - 145*
PCB-114L	*50*		*40 - 145*
PCB-3L	*56*		*15 - 145*
PCB-118L	*52*		*40 - 145*
PCB-126L	*57*		*40 - 145*
PCB-202L	*50*		*40 - 145*
PCB-169L	*64*		*40 - 145*
PCB-206L	*62*		*40 - 145*
PCB-37L	*53*		*15 - 145*
PCB-19L	*57*		*15 - 145*
PCB-188L	*45*		*40 - 145*
PCB-54L	*46*		*15 - 145*
PCB-156L/157L	*58*		*40 - 145*
PCB-167L	*56*		*40 - 145*
PCB-209L	*64*		*40 - 145*
PCB-189L	*57*		*40 - 145*
PCB-105L	*54*		*40 - 145*
PCB-208L	*58*		*40 - 145*
PCB-1L	*47*		*15 - 145*
PCB-104L	*42*		*40 - 145*
PCB-81L	*53*		*40 - 145*
PCB-77L	*53*		*40 - 145*
PCB-205L	*63*		*40 - 145*
PCB-155L	*45*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*63*		*5 - 145*
PCB-111L	*67*		*10 - 145*
PCB-178L	*77*		*10 - 145*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-34661/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34661

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	4.57	J	20	0.45	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-2	0.49	U	20	0.49	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-3	0.55	U	20	0.55	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-4	12	U	20	12	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-5	10	U	20	10	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-6	10	U	20	10	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-7	9.3	U	20	9.3	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-8	9.8	U	20	9.8	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-9	11	U	20	11	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-10	9.2	U	20	9.2	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-11	10	U	20	10	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-12/13	10	U	40	10	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-14	8.7	U	20	8.7	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-15	12	U	20	12	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-16	1.9	U	20	1.9	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-17	1.4	U	20	1.4	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-18/30	1.2	U	40	1.2	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-19	1.4	U	20	1.4	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-20/28	0.85	U	40	0.85	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-21/33	0.79	U	40	0.79	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-22	0.90	U	20	0.90	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-23	0.77	U	20	0.77	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-24	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-25	0.80	U	20	0.80	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-26/29	0.80	U	40	0.80	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-27	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-31	0.79	U	20	0.79	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-32	0.79	U	20	0.79	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-34	0.80	U	20	0.80	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-35	0.93	U	20	0.93	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-36	0.81	U	20	0.81	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-37	1.2	U	20	1.2	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-38	0.87	U	20	0.87	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-39	0.82	U	20	0.82	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-40/71	0.80	U	40	0.80	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-41	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-42	0.89	U	20	0.89	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-43	0.91	U	20	0.91	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-44/47/65	3.78	J	60	0.76	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-45	0.90	U	20	0.90	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-46	0.95	U	20	0.95	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-48	0.82	U	20	0.82	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-49/69	0.67	U	40	0.67	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-50/53	0.75	U	40	0.75	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-51	0.75	U	20	0.75	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-52	1.24	J	20	0.84	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-54	0.93	U	20	0.93	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-55	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-34661/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34661

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-56	1.1	U	20	1.1	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-57	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-58	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-59/62/75	0.59	U	60	0.59	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-60	1.1	U	20	1.1	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-61/70/74/76	1.0	U	80	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-63	0.97	U	20	0.97	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-64	0.55	U	20	0.55	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-66	1.2	U	20	1.2	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-67	0.96	U	20	0.96	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-68	0.92	U	20	0.92	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-72	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-73	0.63	U	20	0.63	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-77	1.4	U	2.0	1.4	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-78	1.2	U	20	1.2	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-79	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-80	0.97	U	20	0.97	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-81	1.4	U	2.0	1.4	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-82	1.3	U	20	1.3	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-83	1.4	U	20	1.4	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-84	1.2	U	20	1.2	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-85/116/117	0.86	U	60	0.86	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-86/87/97/108/119/125	0.88	U	120	0.88	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-88/91	0.98	U	40	0.98	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-89	1.1	U	20	1.1	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-90/101/113	0.89	U	60	0.89	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-92	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-93/100	0.98	U	40	0.98	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-107/124	0.81	U	40	0.81	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-94	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-95	0.97	U	20	0.97	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-96	0.41	U	20	0.41	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-98/102	0.92	U	40	0.92	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-99	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-103	0.91	U	20	0.91	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-104	0.38	U	20	0.38	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-105	0.96	U	2.0	0.96	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-106	0.88	U	20	0.88	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-110/115	0.79	U	40	0.79	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-109	0.75	U	20	0.75	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-111	0.72	U	20	0.72	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-112	0.69	U	20	0.69	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-114	0.91	U	2.0	0.91	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-115	0.79	U	40	0.79	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-118	0.86	U	2.0	0.86	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-120	0.76	U	20	0.76	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-121	0.72	U	20	0.72	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-122	0.90	U	20	0.90	pg/g		01/24/14 12:53	02/04/14 10:57	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-34661/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34661

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-123	0.85	U	2.0	0.85	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-126	1.0	U	2.0	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-127	0.88	U	20	0.88	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-128/166	0.86	U	40	0.86	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-129/138/163	0.90	U	60	0.90	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-130	1.1	U	20	1.1	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-131	1.1	U	20	1.1	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-132	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-133	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-134/143	1.0	U	40	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-135/151	0.91	U	40	0.91	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-136	0.67	U	20	0.67	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-137	0.90	U	20	0.90	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-139/140	0.87	U	40	0.87	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-141	0.96	U	20	0.96	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-142	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-144	0.90	U	20	0.90	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-145	0.64	U	20	0.64	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-146	0.96	U	20	0.96	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-147/149	0.89	U	40	0.89	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-148	0.89	U	20	0.89	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-150	0.60	U	20	0.60	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-152	0.62	U	20	0.62	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-153/168	0.75	U	40	0.75	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-154	0.79	U	20	0.79	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-155	0.65	U	20	0.65	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-156/157	1.0	U	4.0	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-158	0.69	U	20	0.69	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-159	0.82	U	20	0.82	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-160	0.79	U	20	0.79	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-161	0.69	U	20	0.69	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-162	0.79	U	20	0.79	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-164	0.76	U	20	0.76	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-165	0.79	U	20	0.79	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-167	0.76	U	2.0	0.76	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-169	0.93	U	2.0	0.93	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-170	0.77	U	20	0.77	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-171/173	0.71	U	40	0.71	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-172	0.73	U	20	0.73	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-174	0.72	U	20	0.72	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-175	0.97	U	20	0.97	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-176	0.65	U	20	0.65	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-177	0.73	U	20	0.73	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-178	1.0	U	20	1.0	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-179	0.71	U	20	0.71	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-180/193	0.59	U	40	0.59	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-181	0.60	U	20	0.60	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-182	0.90	U	20	0.90	pg/g		01/24/14 12:53	02/04/14 10:57	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-34661/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34661

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-183	0.54	U	20	0.54	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-184	0.73	U	20	0.73	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-185	0.65	U	20	0.65	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-186	0.69	U	20	0.69	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-187	0.94	U	20	0.94	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-188	0.71	U	20	0.71	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-189	1.1	U	2.0	1.1	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-190	0.54	U	20	0.54	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-191	0.53	U	20	0.53	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-192	0.55	U	20	0.55	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-194	0.90	U	20	0.90	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-195	0.84	U	20	0.84	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-196	0.84	U	20	0.84	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-197	0.56	U	20	0.56	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-198/199	0.87	U	40	0.87	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-200	0.57	U	20	0.57	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-201	0.56	U	20	0.56	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-202	0.67	U	20	0.67	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-203	0.78	U	20	0.78	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-204	0.59	U	20	0.59	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-205	0.63	U	20	0.63	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-206	0.96	U	20	0.96	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-207	0.69	U	20	0.69	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-208	0.82	U	20	0.82	pg/g		01/24/14 12:53	02/04/14 10:57	1
PCB-209	0.71	U	20	0.71	pg/g		01/24/14 12:53	02/04/14 10:57	1
Total Monochlorobiphenyls	4.57	J	200	0.50	pg/g		01/24/14 12:53	02/04/14 10:57	1
Total Dichlorobiphenyls	12	U	200	12	pg/g		01/24/14 12:53	02/04/14 10:57	1
Total Trichlorobiphenyls	1.9	U	200	1.9	pg/g		01/24/14 12:53	02/04/14 10:57	1
Total Tetrachlorobiphenyls	5.02	J	200	0.94	pg/g		01/24/14 12:53	02/04/14 10:57	1
Total Pentachlorobiphenyls	1.4	U	200	1.4	pg/g		01/24/14 12:53	02/04/14 10:57	1
Total Hexachlorobiphenyls	1.1	U	200	1.1	pg/g		01/24/14 12:53	02/04/14 10:57	1
Total Heptachlorobiphenyls	1.1	U	200	1.1	pg/g		01/24/14 12:53	02/04/14 10:57	1
Total Octachlorobiphenyls	0.90	U	200	0.90	pg/g		01/24/14 12:53	02/04/14 10:57	1
Total Nonachlorobiphenyls	0.96	U	200	0.96	pg/g		01/24/14 12:53	02/04/14 10:57	1
Polychlorinated biphenyls, Total	9.59	J	200	2.2	pg/g		01/24/14 12:53	02/04/14 10:57	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*37*		*5 - 145*	*01/24/14 12:53*	*02/04/14 10:57*	*1*
PCB-15L	*33*		*5 - 145*	*01/24/14 12:53*	*02/04/14 10:57*	*1*
PCB-123L	*30*		*10 - 145*	*01/24/14 12:53*	*02/04/14 10:57*	*1*
PCB-114L	*28*		*10 - 145*	*01/24/14 12:53*	*02/04/14 10:57*	*1*
PCB-3L	*42*		*5 - 145*	*01/24/14 12:53*	*02/04/14 10:57*	*1*
PCB-118L	*29*		*10 - 145*	*01/24/14 12:53*	*02/04/14 10:57*	*1*
PCB-126L	*32*		*10 - 145*	*01/24/14 12:53*	*02/04/14 10:57*	*1*
PCB-202L	*33*		*10 - 145*	*01/24/14 12:53*	*02/04/14 10:57*	*1*
PCB-169L	*32*		*10 - 145*	*01/24/14 12:53*	*02/04/14 10:57*	*1*
PCB-206L	*36*		*10 - 145*	*01/24/14 12:53*	*02/04/14 10:57*	*1*
PCB-37L	*26*		*5 - 145*	*01/24/14 12:53*	*02/04/14 10:57*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-34661/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34661

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-19L	39		5 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-188L	29		10 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-54L	27		5 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-156L/157L	29		10 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-167L	30		10 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-209L	35		10 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-189L	32		10 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-105L	29		10 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-208L	37		10 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-1L	39		5 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-104L	26		10 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-81L	29		10 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-77L	29		10 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-205L	35		10 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-155L	24		10 - 145	01/24/14 12:53	02/04/14 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	57		5 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-111L	72		10 - 145	01/24/14 12:53	02/04/14 10:57	1
PCB-178L	79		10 - 145	01/24/14 12:53	02/04/14 10:57	1

Lab Sample ID: LCS 320-34661/2-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	236		pg/g		118	60 - 135
PCB-3	200	239		pg/g		119	60 - 135
PCB-4	200	238		pg/g		119	60 - 135
PCB-15	200	233		pg/g		117	60 - 135
PCB-19	200	216		pg/g		108	60 - 135
PCB-37	200	237		pg/g		118	60 - 135
PCB-54	200	239		pg/g		119	60 - 135
PCB-77	200	230		pg/g		115	60 - 135
PCB-81	200	234		pg/g		117	60 - 135
PCB-104	200	227		pg/g		113	60 - 135
PCB-105	200	231		pg/g		115	60 - 135
PCB-114	200	225		pg/g		112	60 - 135
PCB-118	200	235		pg/g		118	60 - 135
PCB-123	200	222		pg/g		111	60 - 135
PCB-126	200	232		pg/g		116	60 - 135
PCB-155	200	227		pg/g		114	60 - 135
PCB-156/157	400	454		pg/g		113	60 - 135
PCB-167	200	220		pg/g		110	60 - 135
PCB-169	200	220		pg/g		110	60 - 135
PCB-188	200	219		pg/g		110	60 - 135
PCB-189	200	239		pg/g		119	60 - 135
PCB-202	200	234		pg/g		117	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-34661/2-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34661

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-205			200	211		pg/g		106	60 - 135		
PCB-206			200	223		pg/g		111	60 - 135		
PCB-208			200	216		pg/g		108	60 - 135		
PCB-209			200	220		pg/g		110	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*51*		*15 - 145*
PCB-15L	*66*		*15 - 145*
PCB-123L	*71*		*40 - 145*
PCB-114L	*71*		*40 - 145*
PCB-3L	*53*		*15 - 145*
PCB-118L	*70*		*40 - 145*
PCB-126L	*76*		*40 - 145*
PCB-202L	*74*		*40 - 145*
PCB-169L	*84*		*40 - 145*
PCB-206L	*83*		*40 - 145*
PCB-37L	*63*		*15 - 145*
PCB-19L	*63*		*15 - 145*
PCB-188L	*66*		*40 - 145*
PCB-54L	*49*		*15 - 145*
PCB-156L/157L	*73*		*40 - 145*
PCB-167L	*72*		*40 - 145*
PCB-209L	*81*		*40 - 145*
PCB-189L	*70*		*40 - 145*
PCB-105L	*72*		*40 - 145*
PCB-208L	*82*		*40 - 145*
PCB-1L	*44*		*15 - 145*
PCB-104L	*56*		*40 - 145*
PCB-81L	*70*		*40 - 145*
PCB-77L	*73*		*40 - 145*
PCB-205L	*78*		*40 - 145*
PCB-155L	*56*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*57*		*5 - 145*
PCB-111L	*69*		*10 - 145*
PCB-178L	*74*		*10 - 145*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-31992/1-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31992

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.15	U	10	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1
2,3,7,8-TCDF	0.250	J	10	0.11	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8-PeCDD	0.22	U	50	0.22	pg/L		12/16/13 16:32	01/10/14 00:48	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31992/1-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31992

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDF	0.15	U	50	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1
2,3,4,7,8-PeCDF	0.15	U	50	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8-HxCDD	0.18	U	50	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,6,7,8-HxCDD	0.12	U	50	0.12	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8,9-HxCDD	0.11	U	50	0.11	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8-HxCDF	0.956	J q	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,6,7,8-HxCDF	0.12	U	50	0.12	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8,9-HxCDF	0.14	U	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
2,3,4,6,7,8-HxCDF	0.13	U	50	0.13	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,6,7,8-HpCDD	1.39	J	50	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,6,7,8-HpCDF	2.65	J	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8,9-HpCDF	0.17	U	50	0.17	pg/L		12/16/13 16:32	01/10/14 00:48	1
OCDD	10.1	J	100	0.20	pg/L		12/16/13 16:32	01/10/14 00:48	1
OCDF	4.14	J q	100	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*85*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,7,8-PeCDD	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,6,7,8-HxCDD	*93*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-2,3,7,8-TCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*86*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,7,8-HxCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-OCDD	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*

Lab Sample ID: LCS 320-31992/2-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	218		pg/L		109	64 - 142
2,3,7,8-TCDF	200	221		pg/L		111	71 - 142
1,2,3,7,8-PeCDD	1000	1090		pg/L		109	71 - 140
1,2,3,7,8-PeCDF	1000	1130		pg/L		113	76 - 135
2,3,4,7,8-PeCDF	1000	1110		pg/L		111	74 - 137
1,2,3,4,7,8-HxCDD	1000	1040		pg/L		104	56 - 146
1,2,3,6,7,8-HxCDD	1000	1150		pg/L		115	73 - 144
1,2,3,7,8,9-HxCDD	1000	1080		pg/L		108	71 - 151
1,2,3,4,7,8-HxCDF	1000	1190		pg/L		119	75 - 131
1,2,3,6,7,8-HxCDF	1000	1200		pg/L		120	76 - 133
1,2,3,7,8,9-HxCDF	1000	1150		pg/L		115	77 - 142
2,3,4,6,7,8-HxCDF	1000	1230		pg/L		123	80 - 137
1,2,3,4,6,7,8-HpCDD	1000	1070		pg/L		107	78 - 139
1,2,3,4,6,7,8-HpCDF	1000	1100		pg/L		110	79 - 133
1,2,3,4,7,8,9-HpCDF	1000	1060		pg/L		106	83 - 130
OCDD	2000	2080		pg/L		104	80 - 132
OCDF	2000	1960		pg/L		98	72 - 140

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-31992/2-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31992

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-2,3,7,8-TCDD	86		40 - 135
13C-1,2,3,7,8-PeCDD	89		40 - 135
13C-1,2,3,7,8-PeCDF	89		40 - 135
13C-1,2,3,6,7,8-HxCDD	91		40 - 135
13C-2,3,7,8-TCDF	88		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	90		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	91		40 - 135
13C-1,2,3,4,7,8-HxCDF	87		40 - 135
13C-OCDD	93		40 - 135

Lab Sample ID: MB 320-34660/1-A
Matrix: Solid
Analysis Batch: 35354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34660

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.0	U	1.0	1.0	pg/g		01/24/14 12:46	02/01/14 00:52	1
2,3,7,8-TCDF	0.68	U	1.0	0.68	pg/g		01/24/14 12:46	02/01/14 00:52	1
1,2,3,7,8-PeCDD	1.1	U	5.0	1.1	pg/g		01/24/14 12:46	02/01/14 00:52	1
1,2,3,7,8-PeCDF	0.83	U	5.0	0.83	pg/g		01/24/14 12:46	02/01/14 00:52	1
2,3,4,7,8-PeCDF	0.90	U	5.0	0.90	pg/g		01/24/14 12:46	02/01/14 00:52	1
1,2,3,4,7,8-HxCDD	0.23	U	5.0	0.23	pg/g		01/24/14 12:46	02/01/14 00:52	1
1,2,3,6,7,8-HxCDD	0.22	U	5.0	0.22	pg/g		01/24/14 12:46	02/01/14 00:52	1
1,2,3,7,8,9-HxCDD	0.20	U	5.0	0.20	pg/g		01/24/14 12:46	02/01/14 00:52	1
1,2,3,4,7,8-HxCDF	0.24	U	5.0	0.24	pg/g		01/24/14 12:46	02/01/14 00:52	1
1,2,3,6,7,8-HxCDF	0.22	U	5.0	0.22	pg/g		01/24/14 12:46	02/01/14 00:52	1
1,2,3,7,8,9-HxCDF	0.26	U	5.0	0.26	pg/g		01/24/14 12:46	02/01/14 00:52	1
2,3,4,6,7,8-HxCDF	0.24	U	5.0	0.24	pg/g		01/24/14 12:46	02/01/14 00:52	1
1,2,3,4,6,7,8-HpCDD	0.26	U	5.0	0.26	pg/g		01/24/14 12:46	02/01/14 00:52	1
1,2,3,4,6,7,8-HpCDF	0.17	U	5.0	0.17	pg/g		01/24/14 12:46	02/01/14 00:52	1
1,2,3,4,7,8,9-HpCDF	0.21	U	5.0	0.21	pg/g		01/24/14 12:46	02/01/14 00:52	1
OCDD	0.37	U	10	0.37	pg/g		01/24/14 12:46	02/01/14 00:52	1
OCDF	0.45	U	10	0.45	pg/g		01/24/14 12:46	02/01/14 00:52	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	32	*	40 - 135	01/24/14 12:46	02/01/14 00:52	1
13C-1,2,3,7,8-PeCDD	28	*	40 - 135	01/24/14 12:46	02/01/14 00:52	1
13C-1,2,3,7,8-PeCDF	29	*	40 - 135	01/24/14 12:46	02/01/14 00:52	1
13C-1,2,3,6,7,8-HxCDD	34	*	40 - 135	01/24/14 12:46	02/01/14 00:52	1
13C-2,3,7,8-TCDF	31	*	40 - 135	01/24/14 12:46	02/01/14 00:52	1
13C-1,2,3,4,6,7,8-HpCDD	34	*	40 - 135	01/24/14 12:46	02/01/14 00:52	1
13C-1,2,3,4,6,7,8-HpCDF	31	*	40 - 135	01/24/14 12:46	02/01/14 00:52	1
13C-1,2,3,4,7,8-HxCDF	28	*	40 - 135	01/24/14 12:46	02/01/14 00:52	1
13C-OCDD	36	*	40 - 135	01/24/14 12:46	02/01/14 00:52	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-34660/2-A
Matrix: Solid
Analysis Batch: 35354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	18.2		pg/g		91	77 - 130
2,3,7,8-TCDF	20.0	17.9		pg/g		90	79 - 137
1,2,3,7,8-PeCDD	100	99.7		pg/g		100	79 - 134
1,2,3,7,8-PeCDF	100	93.6		pg/g		94	81 - 134
2,3,4,7,8-PeCDF	100	94.2		pg/g		94	76 - 132
1,2,3,4,7,8-HxCDD	100	95.7		pg/g		96	65 - 144
1,2,3,6,7,8-HxCDD	100	95.8		pg/g		96	73 - 147
1,2,3,7,8,9-HxCDD	100	93.9		pg/g		94	80 - 143
1,2,3,4,7,8-HxCDF	100	100		pg/g		100	72 - 140
1,2,3,6,7,8-HxCDF	100	101		pg/g		101	63 - 152
1,2,3,7,8,9-HxCDF	100	100		pg/g		100	72 - 152
2,3,4,6,7,8-HxCDF	100	104		pg/g		104	72 - 151
1,2,3,4,6,7,8-HpCDD	100	96.9		pg/g		97	86 - 134
1,2,3,4,6,7,8-HpCDF	100	92.8		pg/g		93	81 - 137
1,2,3,4,7,8,9-HpCDF	100	95.2		pg/g		95	79 - 139
OCDD	200	188		pg/g		94	80 - 137
OCDF	200	180		pg/g		90	75 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*96*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*93*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*105*		*40 - 135*
13C-2,3,7,8-TCDF	*94*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*110*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*104*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*91*		*40 - 135*
13C-OCDD	*115*		*40 - 135*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-94973/1-A
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94973

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13	U	18	13	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Barium	0.23	U	4.6	0.23	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Beryllium	0.16	U	0.46	0.16	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Cadmium	0.092	U	0.46	0.092	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Calcium	12	U	230	12	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Chromium	0.28	U	0.92	0.28	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Cobalt	0.86	U	4.6	0.86	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Copper	0.67	U	2.3	0.67	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Iron	2.7	U	9.2	2.7	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Magnesium	7.6	U	92	7.6	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Manganese	0.14	U	0.92	0.14	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Nickel	0.21	U	3.7	0.21	mg/Kg		12/27/13 10:01	01/10/14 01:08	1

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

Lab Sample ID: MB 160-94973/1-A
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94973

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.16	U	0.92	0.16	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Antimony	0.59	U	0.92	0.59	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Silver	0.21	U	0.92	0.21	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Selenium	0.27	U	1.4	0.27	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Titanium	0.58	U	1.8	0.58	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Vanadium	1.2	U	4.6	1.2	mg/Kg		12/27/13 10:01	01/10/14 01:08	1
Zinc	1.8	U	4.6	1.8	mg/Kg		12/27/13 10:01	01/10/14 01:08	1

Lab Sample ID: MB 160-94973/1-A
Matrix: Solid
Analysis Batch: 98404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94973

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	310	U	460	310	mg/Kg		12/27/13 10:01	01/14/14 20:22	1
Sodium	43	U	92	43	mg/Kg		12/27/13 10:01	01/14/14 20:22	1

Lab Sample ID: LCS 160-94973/2-A
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94973

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9780	7230		mg/Kg		74	44 - 155
Barium	325	307		mg/Kg		94	74 - 125
Beryllium	92.1	79.6		mg/Kg		86	74 - 126
Cadmium	110	90.5		mg/Kg		82	73 - 139
Calcium	6700	5670		mg/Kg		85	74 - 125
Chromium	93.4	82.6		mg/Kg		88	69 - 130
Cobalt	133	116		mg/Kg		88	74 - 125
Copper	74.7	63.4		mg/Kg		85	73 - 126
Iron	13100	10200		mg/Kg		78	32 - 167
Magnesium	2980	2260		mg/Kg		76	66 - 134
Manganese	443	348		mg/Kg		79	77 - 124
Nickel	109	92.7		mg/Kg		85	72 - 126
Lead	152	130		mg/Kg		86	73 - 126
Antimony	121	49.8		mg/Kg		41	21 - 251
Silver	51.9	48.3		mg/Kg		93	66 - 133
Selenium	207	176		mg/Kg		85	69 - 131
Titanium	193	153		mg/Kg		79	29 - 171
Vanadium	110	89.8		mg/Kg		82	67 - 132
Zinc	299	256		mg/Kg		86	71 - 128

Lab Sample ID: LCS 160-94973/2-A
Matrix: Solid
Analysis Batch: 98404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94973

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	2770	2210		mg/Kg		80	61 - 138
Sodium	724	634		mg/Kg		88	56 - 144

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

Lab Sample ID: 680-97124-1 MS
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: PP-B-1 0-4
Prep Type: Total/NA
Prep Batch: 94973

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	6400		1050	8400	4	mg/Kg	☼	190	75 - 125
Barium	97		105	199		mg/Kg	☼	97	75 - 125
Beryllium	0.86	U	105	73.7	F1	mg/Kg	☼	70	75 - 125
Cadmium	0.51	U	105	84.3		mg/Kg	☼	81	75 - 125
Calcium	22000		1050	14300	4	mg/Kg	☼	-695	75 - 125
Chromium	7.0		105	87.6		mg/Kg	☼	77	75 - 125
Cobalt	6.3	J	105	93.0		mg/Kg	☼	83	75 - 125
Copper	12	J	105	104		mg/Kg	☼	88	75 - 125
Iron	7800		1050	10300	4	mg/Kg	☼	232	75 - 125
Magnesium	6400		1050	6070	4	mg/Kg	☼	-29	75 - 125
Manganese	330		105	383	F1	mg/Kg	☼	47	75 - 125
Nickel	13	J	105	99.3		mg/Kg	☼	83	75 - 125
Lead	7.6		105	98.9		mg/Kg	☼	87	75 - 125
Antimony	3.3	U	52.3	26.6	F1	mg/Kg	☼	51	75 - 125
Silver	1.2	U	20.9	16.0		mg/Kg	☼	76	75 - 125
Selenium	1.5	U	52.3	38.2	F1	mg/Kg	☼	73	75 - 125
Titanium	440		105	710	4	mg/Kg	☼	262	75 - 125
Vanadium	23	J	105	98.8	F1	mg/Kg	☼	72	75 - 125
Zinc	28		105	118		mg/Kg	☼	86	75 - 125

Lab Sample ID: 680-97124-1 MS
Matrix: Solid
Analysis Batch: 98404

Client Sample ID: PP-B-1 0-4
Prep Type: Total/NA
Prep Batch: 94973

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	3400	U	1050	4460	J	mg/Kg	☼	NC	75 - 125
Sodium	730	J	1050	2920	F1	mg/Kg	☼	209	75 - 125

Lab Sample ID: 680-97124-1 MSD
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: PP-B-1 0-4
Prep Type: Total/NA
Prep Batch: 94973

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	6400		983	9360	4	mg/Kg	☼	301	75 - 125	11	30
Barium	97		98.3	211		mg/Kg	☼	116	75 - 125	6	30
Beryllium	0.86	U	98.3	79.3		mg/Kg	☼	81	75 - 125	7	30
Cadmium	0.51	U	98.3	84.2		mg/Kg	☼	86	75 - 125	0	30
Calcium	22000		983	17900	4	mg/Kg	☼	-381	75 - 125	22	30
Chromium	7.0		98.3	91.6		mg/Kg	☼	86	75 - 125	4	30
Cobalt	6.3	J	98.3	93.7		mg/Kg	☼	89	75 - 125	1	30
Copper	12	J	98.3	104		mg/Kg	☼	93	75 - 125	0	30
Iron	7800		983	11800	4	mg/Kg	☼	405	75 - 125	14	30
Magnesium	6400		983	9850	4 F2	mg/Kg	☼	354	75 - 125	47	30
Manganese	330		98.3	409		mg/Kg	☼	77	75 - 125	7	30
Nickel	13	J	98.3	103		mg/Kg	☼	92	75 - 125	4	30
Lead	7.6		98.3	96.8		mg/Kg	☼	91	75 - 125	2	30
Antimony	3.3	U	49.2	25.1	F1	mg/Kg	☼	51	75 - 125	6	30
Silver	1.2	U	19.7	16.5		mg/Kg	☼	84	75 - 125	3	30

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

Lab Sample ID: 680-97124-1 MSD
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: PP-B-1 0-4
Prep Type: Total/NA
Prep Batch: 94973

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	1.5	U	49.2	36.7		mg/Kg	☼	75	75 - 125	4	30
Titanium	440		98.3	772	4	mg/Kg	☼	342	75 - 125	8	30
Vanadium	23	J	98.3	107		mg/Kg	☼	85	75 - 125	8	30
Zinc	28		98.3	132		mg/Kg	☼	106	75 - 125	11	30

Lab Sample ID: 680-97124-1 MSD
Matrix: Solid
Analysis Batch: 98404

Client Sample ID: PP-B-1 0-4
Prep Type: Total/NA
Prep Batch: 94973

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	3400	U	983	3740	J	mg/Kg	☼	NC	75 - 125	18	30
Sodium	730	J	983	2500	F1	mg/Kg	☼	180	75 - 125	16	30

Lab Sample ID: MB 160-96025/1-A
Matrix: Water
Analysis Batch: 97021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96025

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	80	U	200	80	ug/L		01/03/14 17:29	01/08/14 13:36	1
Barium	4.0	U	50	4.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Beryllium	0.61	U	5.0	0.61	ug/L		01/03/14 17:29	01/08/14 13:36	1
Cadmium	0.91	U	5.0	0.91	ug/L		01/03/14 17:29	01/08/14 13:36	1
Calcium	110	U	1000	110	ug/L		01/03/14 17:29	01/08/14 13:36	1
Chromium	3.1	U	10	3.1	ug/L		01/03/14 17:29	01/08/14 13:36	1
Cobalt	4.9	U	50	4.9	ug/L		01/03/14 17:29	01/08/14 13:36	1
Copper	4.6	U	25	4.6	ug/L		01/03/14 17:29	01/08/14 13:36	1
Iron	28	U	100	28	ug/L		01/03/14 17:29	01/08/14 13:36	1
Magnesium	130	U	1000	130	ug/L		01/03/14 17:29	01/08/14 13:36	1
Manganese	3.3	U	15	3.3	ug/L		01/03/14 17:29	01/08/14 13:36	1
Nickel	13	U	40	13	ug/L		01/03/14 17:29	01/08/14 13:36	1
Potassium	1700	U	5000	1700	ug/L		01/03/14 17:29	01/08/14 13:36	1
Lead	1.5	U	10	1.5	ug/L		01/03/14 17:29	01/08/14 13:36	1
Antimony	4.0	U	10	4.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Silver	6.0	U	10	6.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Selenium	2.7	U	15	2.7	ug/L		01/03/14 17:29	01/08/14 13:36	1
Sodium	320	U	1000	320	ug/L		01/03/14 17:29	01/08/14 13:36	1
Titanium	2.4	U	20	2.4	ug/L		01/03/14 17:29	01/08/14 13:36	1
Vanadium	4.1	U	50	4.1	ug/L		01/03/14 17:29	01/08/14 13:36	1
Zinc	13.0	J	20	5.2	ug/L		01/03/14 17:29	01/08/14 13:36	1

Lab Sample ID: LCS 160-96025/2-A
Matrix: Water
Analysis Batch: 97021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96025

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	10500		ug/L		105	80 - 120
Barium	1000	1040		ug/L		104	80 - 120
Beryllium	1000	1050		ug/L		105	80 - 120
Cadmium	1000	1040		ug/L		104	80 - 120

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

Lab Sample ID: LCS 160-96025/2-A
Matrix: Water
Analysis Batch: 97021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96025

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	10000	10900		ug/L		109	80 - 120
Chromium	1000	1010		ug/L		101	80 - 120
Cobalt	1000	1080		ug/L		108	80 - 120
Copper	1000	1080		ug/L		108	80 - 120
Iron	10000	10600		ug/L		106	80 - 120
Magnesium	10000	9960		ug/L		100	80 - 120
Manganese	1000	1080		ug/L		108	80 - 120
Nickel	1000	1100		ug/L		110	80 - 120
Potassium	10000	11700		ug/L		117	80 - 120
Lead	1000	1090		ug/L		109	80 - 120
Antimony	500	513		ug/L		103	80 - 120
Silver	200	201		ug/L		100	80 - 120
Selenium	500	516		ug/L		103	80 - 120
Sodium	10000	11700		ug/L		117	80 - 120
Titanium	1000	1020		ug/L		102	80 - 120
Vanadium	1000	1040		ug/L		104	80 - 120
Zinc	1000	1070		ug/L		107	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-94976/1-A
Matrix: Solid
Analysis Batch: 95862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.24	U	0.92	0.24	mg/Kg		12/27/13 10:07	01/03/14 01:51	2
Niobium	0.35	U	2.3	0.35	mg/Kg		12/27/13 10:07	01/03/14 01:51	2
Thallium	0.14	U	0.46	0.14	mg/Kg		12/27/13 10:07	01/03/14 01:51	2
Uranium	0.018	U	0.092	0.018	mg/Kg		12/27/13 10:07	01/03/14 01:51	2

Lab Sample ID: LCS 160-94976/19-A
Matrix: Solid
Analysis Batch: 95862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	48.7	52.1	E	mg/Kg		107	80 - 120
Uranium	97.5	100		mg/Kg		103	80 - 120

Lab Sample ID: LCS 160-94976/2-A
Matrix: Solid
Analysis Batch: 95862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	109	110		mg/Kg		100	70 - 131
Thallium	171	185	E	mg/Kg		108	68 - 131

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

Lab Sample ID: 680-97124-1 MS
Matrix: Solid
Analysis Batch: 95862

Client Sample ID: PP-B-1 0-4
Prep Type: Total/NA
Prep Batch: 94976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	3.3	J	105	112		mg/Kg	☼	104	75 - 125
Niobium	2.9	J	52.3	36.0	F1	mg/Kg	☼	63	75 - 125
Thallium	0.78	U	20.9	22.4		mg/Kg	☼	107	75 - 125
Uranium	0.62		105	112		mg/Kg	☼	106	75 - 125

Lab Sample ID: 680-97124-1 MSD
Matrix: Solid
Analysis Batch: 95862

Client Sample ID: PP-B-1 0-4
Prep Type: Total/NA
Prep Batch: 94976

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3.3	J	98.3	106		mg/Kg	☼	104	75 - 125	5	30
Niobium	2.9	J	49.2	32.0	F1	mg/Kg	☼	59	75 - 125	12	30
Thallium	0.78	U	19.7	20.5		mg/Kg	☼	104	75 - 125	9	30
Uranium	0.62		98.3	104		mg/Kg	☼	105	75 - 125	7	30

Lab Sample ID: MB 160-96024/1-A
Matrix: Water
Analysis Batch: 96993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		01/03/14 17:29	01/09/14 00:26	1
Niobium	2.2	U	25	2.2	ug/L		01/03/14 17:29	01/09/14 00:26	1
Thallium	0.55	U	2.0	0.55	ug/L		01/03/14 17:29	01/09/14 00:26	1
Uranium	0.23	U	1.0	0.23	ug/L		01/03/14 17:29	01/09/14 00:26	1

Lab Sample ID: LCS 160-96024/2-A
Matrix: Water
Analysis Batch: 96993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	950		ug/L		95	80 - 120
Niobium	500	518	E	ug/L		104	80 - 120
Thallium	200	206		ug/L		103	80 - 120
Uranium	1000	985		ug/L		98	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-96983/1-A
Matrix: Water
Analysis Batch: 97053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		01/09/14 07:42	01/09/14 12:13	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 160-96983/2-A
Matrix: Water
Analysis Batch: 97053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.01		ug/L		100	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 160-93312/1-A
Matrix: Solid
Analysis Batch: 93523

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	U	0.030	0.010	mg/Kg		12/19/13 09:05	12/19/13 17:21	1

Lab Sample ID: LCS 160-93312/2-A
Matrix: Solid
Analysis Batch: 93523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	16.3	16.5		mg/Kg		101	51 - 148

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-92246/9
Matrix: Water
Analysis Batch: 92246

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0040	U	0.020	0.0040	mg/L			12/14/13 17:38	1
Chloride	0.020	U	0.20	0.020	mg/L			12/14/13 17:38	1

Lab Sample ID: LCS 160-92246/10
Matrix: Water
Analysis Batch: 92246

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.400	0.382		mg/L		96	90 - 110
Chloride	2.00	1.94		mg/L		97	90 - 110

Lab Sample ID: 680-97124-15 MS
Matrix: Water
Analysis Batch: 92246

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.23		0.400	0.617		mg/L		96	90 - 110
Chloride	4.8		2.00	7.09	F	mg/L		113	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-97124-15 MSD — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 92246

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.23		0.400	0.615		mg/L		96	90 - 110	0	20
Chloride	4.8		2.00	7.12	F	mg/L		114	90 - 110	0	20

Lab Sample ID: MB 160-94529/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.050	U	0.50	0.050	mg/L			12/16/13 12:32	1

Lab Sample ID: LCS 160-94529/10 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	8.00	7.68		mg/L		96	90 - 110

Lab Sample ID: 680-97124-15 MS — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94529

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.2		4.00	9.08		mg/L		97	90 - 110

Lab Sample ID: 680-97124-15 MSD — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94529

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	5.2		4.00	9.03		mg/L		96	90 - 110	1	20

Lab Sample ID: MB 160-97083/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.040	U	0.20	0.040	mg/Kg			01/14/14 23:14	1
Chloride	0.20	U	2.0	0.20	mg/Kg			01/14/14 23:14	1
Sulfate	0.50	U	5.0	0.50	mg/Kg			01/14/14 23:14	1

Lab Sample ID: LCS 160-97083/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.02	3.99		mg/Kg		99	90 - 110
Chloride	20.1	19.3		mg/Kg		96	90 - 110
Sulfate	80.4	76.4		mg/Kg		95	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-97124-2 MS — **Client Sample ID: PP-B-1 11-13**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99083

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.1	H	4.32	6.64		mg/Kg	☼	104	90 - 110
Sulfate	24	H	43.2	65.9		mg/Kg	☼	98	90 - 110

Lab Sample ID: 680-97124-2 MSD — **Client Sample ID: PP-B-1 11-13**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99083

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.1	H	4.32	6.61		mg/Kg	☼	103	90 - 110	0	20
Sulfate	24	H	43.2	65.5		mg/Kg	☼	97	90 - 110	1	20

Lab Sample ID: 680-97124-11 MS — **Client Sample ID: P-B-11_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99083

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.63	H	4.26	4.75		mg/Kg	☼	97	90 - 110
Sulfate	26	H	42.6	68.2		mg/Kg	☼	98	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 680-97124-2 MS — **Client Sample ID: PP-B-1 11-13**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99083

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL	290	H	432	733		mg/Kg	☼	103	90 - 110

Lab Sample ID: 680-97124-2 MSD — **Client Sample ID: PP-B-1 11-13**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99083

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride - DL	290	H	432	732		mg/Kg	☼	103	90 - 110	0	20

Lab Sample ID: 680-97124-11 MS — **Client Sample ID: P-B-11_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99083

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL	150	H	426	564		mg/Kg	☼	97	90 - 110

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-100320/1-A
Matrix: Water
Analysis Batch: 101293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100320

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	0.3577	U	3.00	1.40	pCi/L		01/21/14 11:29	01/27/14 08:11	1
Gross Beta	-0.2950	U	4.00	0.925	pCi/L		01/21/14 11:29	01/27/14 08:11	1

Lab Sample ID: LCS 160-100320/2-A
Matrix: Water
Analysis Batch: 101293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100320

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	53.7	47.86		7.03	2.04	pCi/L	89	75 - 125

Lab Sample ID: LCSB 160-100320/3-A
Matrix: Water
Analysis Batch: 101293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100320

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	98.1	104.4		11.0	0.982	pCi/L	106	75 - 125

Lab Sample ID: MB 160-96736/1-A
Matrix: Solid
Analysis Batch: 96785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96736

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	1.635	U	10.0	5.24	pCi/g		01/08/14 10:52	01/08/14 16:18	1
Gross Beta	3.432		10.0	2.48	pCi/g		01/08/14 10:52	01/08/14 16:18	1

Lab Sample ID: LCS 160-96736/2-A
Matrix: Solid
Analysis Batch: 96785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96736

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	27.1	31.29		7.61	5.49	pCi/g	115	44 - 140
Gross Beta	26.8	26.01		4.42	3.29	pCi/g	97	38 - 130

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-94333/1-A
Matrix: Solid
Analysis Batch: 98110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94333

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	0.1208	U		0.393	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-212	-0.1137	U		1.56	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-214	0.06744	U		0.204	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-210M	0.02172	U		0.132	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cesium-134	0.01890	U		0.0532	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cesium-137	0.0000	U		0.0658	pCi/g		12/23/13 16:53	01/14/14 20:01	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-94333/1-A
Matrix: Solid
Analysis Batch: 98110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94333

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt-57	0.0000	U		0.0580	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cobalt-60	0.0000	U		0.377	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Lead-212	-0.03959	U		0.157	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Lead-214	-0.01117	U		0.239	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Potassium-40	-0.08341	U		1.76	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Protactinium-231	0.07350	U		3.03	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Protactinium-234	0.05108	U		0.174	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Radium-224	-0.04467	U		1.78	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thallium-208	-0.05488	U		0.158	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thorium-227	0.01782	U		0.539	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thorium-234	0.03218	U		2.05	pCi/g		12/23/13 16:53	01/14/14 20:01	1

Lab Sample ID: LCS 160-94333/2-A
Matrix: Solid
Analysis Batch: 98430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94333

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	31.3	30.07		3.24	0.320	pCi/g	96	87 - 120
Cobalt-60	23.5	22.83		2.37	0.181	pCi/g	97	87 - 115
Americium-241	97.5	97.06		10.2	1.39	pCi/g	100	87 - 116

Lab Sample ID: 680-97124-1 DU
Matrix: Solid
Analysis Batch: 98120

Client Sample ID: PP-B-1 0-4
Prep Type: Total/NA
Prep Batch: 94333

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Actinium 228	1.58		2.004		0.371	0.0862	pCi/g	0.64	1
Bismuth-212	2.05		2.213		0.897	0.824	pCi/g	0.1	1
Bismuth-214	1.12		1.100		0.223	0.154	pCi/g	0.03	1
Bismuth-210M	0.0117	U	0.01938	U	0.0497	0.145	pCi/g	0.09	1
Cesium-134	0.0120	U	0.01497	U	0.0385	0.0622	pCi/g	0.03	1
Cesium-137	0.000	U	0.0000	U	0.0198	0.132	pCi/g	0	1
Cobalt-57	-0.0175	U	-0.00870 6	U	0.0307	0.0708	pCi/g	0.14	1
Cobalt-60	-0.0163	U	-0.01291	U	0.0577	0.104	pCi/g	0.03	1
Lead-212	1.77		1.685		0.279	0.179	pCi/g	0.16	1
Lead-214	1.17		1.114		0.235	0.183	pCi/g	0.12	1
Potassium-40	25.8		24.79		3.32	0.556	pCi/g	0.16	1
Protactinium-231	0.809	U	-1.252	U	1.76	2.91	pCi/g	0.94	1
Protactinium-234	0.00852	U	0.1106	U	0.193	0.278	pCi/g	0.50	1
Radium-224	1.82	U	1.663	U	1.34	2.13	pCi/g	0.06	1
Thallium-208	0.579		0.6252		0.126	0.0807	pCi/g	0.18	1
Thorium-227	-0.00857	U	-0.03095	U	0.134	1.84	pCi/g	0.12	1
Thorium-234	1.42	U	0.3795	U	0.422	2.59	pCi/g	0.70	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-95042/1-A
Matrix: Water
Analysis Batch: 99417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95042

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	7.496	U		38.1	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Bismuth-212	-0.007098	U		118	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Bismuth-214	13.91	U		22.2	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Bismuth-210M	0.0000	U		18.1	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Cesium-134	2.247	U		10.7	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Cesium-137	0.2574	U		12.2	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Cobalt-57	3.280	U		5.49	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Cobalt-60	0.4423	U		25.4	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Lead-212	10.69	U		18.0	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Lead-214	4.765	U		25.8	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Potassium-40	-29.69	U		197	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Protactinium-231	58.12	U		250	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Protactinium-234	9.002	U		24.0	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Radium-224	-71.94	U		234	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Thallium-208	-2.160	U		13.3	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Thorium-227	-34.02	U		76.0	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Thorium-231	11.41	U		52.4	pCi/L		12/27/13 14:10	01/17/14 10:41	1
Thorium-234	46.74	U		182	pCi/L		12/27/13 14:10	01/17/14 10:41	1

Lab Sample ID: LCS 160-95042/2-A
Matrix: Water
Analysis Batch: 99418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95042

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	50500	49600		4980	213	pCi/L	98	90 - 111
Cobalt-60	59600	58810		5820	156	pCi/L	99	89 - 110
Americium-241	137000	135700		15700	558	pCi/L	99	90 - 111

Lab Sample ID: 680-97124-15 DU
Matrix: Water
Analysis Batch: 99402

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 95042

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Actinium 228	2.98	U	3.191	U	21.9	44.8	pCi/L	0.01	1
Bismuth-212	12.0	U	8.462	U	60.4	113	pCi/L	0.03	1
Bismuth-214	5.81	U	-8.816	U	35.9	31.5	pCi/L	0.29	1
Bismuth-210M	0.000	U	-2.515	U	9.59	16.6	pCi/L	0.17	1
Cesium-134	2.80	U	4.673	U	6.91	9.77	pCi/L	0.17	1
Cesium-137	-2.08	U	2.044	U	6.34	11.3	pCi/L	0.31	1
Cobalt-57	3.76	U	1.040	U	3.10	7.61	pCi/L	0.37	1
Cobalt-60	-3.98	U	2.568	U	6.58	11.9	pCi/L	0.01	1
Lead-212	8.11	U	-1.716	U	15.8	23.8	pCi/L	0.38	1
Lead-214	-6.11	U	2.991	U	13.2	25.7	pCi/L	0.20	1
Potassium-40	-99.8	U	-62.64	U	249	221	pCi/L	0	1
Protactinium-231	44.3	U	-25.05	U	167	293	pCi/L	0.28	1
Protactinium-234	-7.56	U	12.53	U	19.8	31.8	pCi/L	0.51	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: 680-97124-15 DU
Matrix: Water
Analysis Batch: 99402

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 95042

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-224	44.2	U		-6.591	U	137		239	pCi/L			0.21	1
Thallium-208	-0.237	U		0.003392	U	0.0116		15.0	pCi/L			0.22	1
Thorium-227	-12.6	U		10.53	U	32.4		65.4	pCi/L			0.35	1
Thorium-231	10.4	U		19.78	U	32.5		60.5	pCi/L			0.14	1
Thorium-234	52.4	U		67.44	U	67.4		222	pCi/L			0.11	1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-94731/1-A
Matrix: Solid
Analysis Batch: 99967

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94731

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.04615	U	1.00	0.116	pCi/g		12/26/13 10:52	01/20/14 19:37	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.6*		*40 - 110*	*12/26/13 10:52*	*01/20/14 19:37*	*1*

Lab Sample ID: LCS 160-94731/2-A
Matrix: Solid
Analysis Batch: 99967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94731

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.2	11.83		1.19		0.128	pCi/g	105	65 - 140		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*87.9*		*40 - 110*

Lab Sample ID: 680-97124-1 DU
Matrix: Solid
Analysis Batch: 99967

Client Sample ID: PP-B-1 0-4
Prep Type: Total/NA
Prep Batch: 94731

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-226	1.12			1.101		0.199		0.115	pCi/g			0.06	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*93.2*		*40 - 110*

Method: 903.0 - Total Alpha-Emitting Radium Isotopes by GFPC

Lab Sample ID: MB 160-92276/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 96771 — **Prep Batch: 92276**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.08417	U	1.00	0.213	pCi/L		12/16/13 14:09	01/08/14 16:16	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*106*		*40 - 110*	*12/16/13 14:09*	*01/08/14 16:16*	*1*

Lab Sample ID: LCS 160-92276/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 96771 — **Prep Batch: 92276**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.2	9.417		1.09		0.183	pCi/L	84	68 - 137		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.5*		*40 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-92278/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 96777 — **Prep Batch: 92278**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.1925	U	1.00	0.319	pCi/L		12/16/13 14:14	01/08/14 12:18	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*106*		*40 - 110*	*12/16/13 14:14*	*01/08/14 12:18*	*1*
Y Carrier	*90.5*		*40 - 110*	*12/16/13 14:14*	*01/08/14 12:18*	*1*

Lab Sample ID: LCS 160-92278/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 96777 — **Prep Batch: 92278**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-228			4.02	3.871		0.570		0.363	pCi/L	96	56 - 140		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.5*		*40 - 110*
Y Carrier	*89.3*		*40 - 110*

Lab Sample ID: MB 160-94735/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99333 — **Prep Batch: 94735**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.1942	U	1.00	0.304	pCi/g		12/26/13 11:09	01/17/14 11:36	1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-94735/1-A
Matrix: Solid
Analysis Batch: 99333

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94735

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110	12/26/13 11:09	01/17/14 11:36	1
Y Carrier	90.8		40 - 110	12/26/13 11:09	01/17/14 11:36	1

Lab Sample ID: LCS 160-94735/2-A
Matrix: Solid
Analysis Batch: 99333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94735

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-228			4.01	4.063		0.611		0.429	pCi/g	101	61 - 139		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	87.9		40 - 110
Y Carrier	88.2		40 - 110

Lab Sample ID: 680-97124-1 DU
Matrix: Solid
Analysis Batch: 99333

Client Sample ID: PP-B-1 0-4
Prep Type: Total/NA
Prep Batch: 94735

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-228	1.53			1.315		0.333		0.378	pCi/g			0.32	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	92.9		40 - 110
Y Carrier	93.1		40 - 110

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-100386/1-A
Matrix: Water
Analysis Batch: 100960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100386

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	-0.008344	U	1.00	0.116	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-230	0.1637	U	1.00	0.255	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-232	-0.04458	U	1.00	0.190	pCi/L		01/22/14 08:57	01/23/14 22:10	1

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	83.1		30 - 110	01/22/14 08:57	01/23/14 22:10	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-100386/2-A
Matrix: Water
Analysis Batch: 100961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100386

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			8.64	9.640		1.27		0.217	pCi/L	112	81 - 125		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*76.3*		*30 - 110*

Lab Sample ID: LCSD 160-100386/3-A
Matrix: Water
Analysis Batch: 100977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100386

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Thorium-230			8.64	9.553		1.25		0.220	pCi/L	111	81 - 125	0.03	1

Tracer	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Thorium-229	*77.7*		*30 - 110*

Lab Sample ID: MB 160-98058/1-A
Matrix: Solid
Analysis Batch: 100486

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98058

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.06632	U	1.00	0.0708	pCi/g		01/14/14 10:14	01/22/14 03:01	1
Thorium-230	0.2059		1.00	0.0498	pCi/g		01/14/14 10:14	01/22/14 03:01	1
Thorium-232	0.004765	U	1.00	0.0620	pCi/g		01/14/14 10:14	01/22/14 03:01	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*82.7*		*30 - 110*	*01/14/14 10:14*	*01/22/14 03:01*	*1*

Lab Sample ID: LCS 160-98058/2-A
Matrix: Solid
Analysis Batch: 100487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98058

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			24.5	23.91		2.48		0.133	pCi/g	98	81 - 118		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*85.3*		*30 - 110*

Lab Sample ID: 680-97124-1 DU
Matrix: Solid
Analysis Batch: 100215

Client Sample ID: PP-B-1 0-4
Prep Type: Total/NA
Prep Batch: 98058

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Thorium-228	2.16			2.116		0.381		0.0693	pCi/g			0.06	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: 680-97124-1 DU
Matrix: Solid
Analysis Batch: 100215

Client Sample ID: PP-B-1 0-4
Prep Type: Total/NA
Prep Batch: 98058

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Thorium-230	1.50			1.167		0.277		0.153	pCi/g			0.56	1
Thorium-232	1.74			2.026		0.372		0.114	pCi/g			0.40	1

Tracer	*DU %Yield*	*DU Qualifier*	*Limits*
Thorium-229	*69.2*		*30 - 110*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-97007/1-A
Matrix: Water
Analysis Batch: 98989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97007

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	-0.01043	U	1.00	0.144	pCi/L		01/09/14 09:41	01/16/14 23:39	1
U-238	0.03623	U	1.00	0.116	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-233/234	0.03212	U	1.00	0.127	pCi/L		01/09/14 09:41	01/16/14 23:39	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*85.8*		*30 - 110*	*01/09/14 09:41*	*01/16/14 23:39*	*1*

Lab Sample ID: LCS 160-97007/2-A
Matrix: Water
Analysis Batch: 98990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97007

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Uranium-235/236			0.607	0.6640		0.310		0.105	pCi/L	109			
U-238			13.0	13.00		1.63		0.128	pCi/L	100	83 - 121		
Uranium-233/234			12.7	12.68		1.60		0.146	pCi/L	100	84 - 120		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*70.2*		*30 - 110*

Lab Sample ID: LCSD 160-97007/3-A
Matrix: Water
Analysis Batch: 98991

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97007

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Uranium-235/236			0.607	0.4230	U	0.599		0.635	pCi/L	70		0.27	1
U-238			13.0	14.49		3.38		0.965	pCi/L	111	83 - 121	0.30	1
Uranium-233/234			12.7	14.04		3.32		0.883	pCi/L	110	84 - 120	0.28	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCSD 160-97007/3-A
Matrix: Water
Analysis Batch: 98991

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97007

Tracer	LCSD %Yield	LCSD Qualifier	Limits
Uranium-232	10.8	X	30 - 110

Lab Sample ID: MB 160-98133/1-A
Matrix: Solid
Analysis Batch: 100244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98133

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.01238	U	1.00	0.0694	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-238	0.009930	U	1.00	0.0556	pCi/g		01/14/14 10:14	01/21/14 17:48	1
Uranium-233/234	0.01301	U	1.00	0.0793	pCi/g		01/14/14 10:14	01/21/14 17:48	1

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	78.1		30 - 110	01/14/14 10:14	01/21/14 17:48	1

Lab Sample ID: LCS 160-98133/2-A
Matrix: Solid
Analysis Batch: 100255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98133

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.304	0.3364		0.140	0.0710	pCi/g	111	
Uranium-238	6.51	6.405		0.755	0.0569	pCi/g	98	82 - 122
Uranium-233/234	6.37	6.182		0.736	0.0868	pCi/g	97	84 - 120

Tracer	LCS %Yield	LCS Qualifier	Limits
Uranium-232	83.2		30 - 110

Lab Sample ID: 680-97124-1 DU
Matrix: Solid
Analysis Batch: 100172

Client Sample ID: PP-B-1 0-4
Prep Type: Total/NA
Prep Batch: 98133

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Uranium-235/236	0.107		0.05436	U	0.0575	0.0649	pCi/g	0.38	1
Uranium-238	1.13		1.108		0.245	0.0778	pCi/g	0.05	1
Uranium-233/234	1.10		1.078		0.241	0.0742	pCi/g	0.06	1

Tracer	DU %Yield	DU Qualifier	Limits
Uranium-232	82.0		30 - 110

GC/MS Semi VOA

Prep Batch: 92812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-13	P-B-10_SS	Total/NA	Solid	3550C	
LCS 160-92812/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 160-92812/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 93362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-13	P-B-10_SS	Total/NA	Solid	8270D	92812
LCS 160-92812/2-A	Lab Control Sample	Total/NA	Solid	8270D	92812
MB 160-92812/1-A	Method Blank	Total/NA	Solid	8270D	92812

Prep Batch: 93558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	3510C	
LCS 160-93558/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 160-93558/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 96003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	8270D	93558
LCS 160-93558/2-A	Lab Control Sample	Total/NA	Water	8270D	93558
MB 160-93558/1-A	Method Blank	Total/NA	Water	8270D	93558

Specialty Organics

Prep Batch: 31992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	8290	
LCS 320-31992/2-A	Lab Control Sample	Total/NA	Water	8290	
MB 320-31992/1-A	Method Blank	Total/NA	Water	8290	

Prep Batch: 33192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	HRMS-Sep	
LCS 320-33192/2-A	Lab Control Sample	Total/NA	Water	HRMS-Sep	
MB 320-33192/1-A	Method Blank	Total/NA	Water	HRMS-Sep	

Analysis Batch: 33676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	8290A	31992
LCS 320-31992/2-A	Lab Control Sample	Total/NA	Water	8290A	31992
MB 320-31992/1-A	Method Blank	Total/NA	Water	8290A	31992

Prep Batch: 34244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-11	P-B-11_SS	Total/NA	Solid	HRMS-Sox	
LCS 320-34244/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
MB 320-34244/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	

Specialty Organics (Continued)

Prep Batch: 34660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-13	P-B-10_SS	Total/NA	Solid	8290	
680-97124-13 - RA	P-B-10_SS	Total/NA	Solid	8290	
LCS 320-34660/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-34660/1-A	Method Blank	Total/NA	Solid	8290	

Prep Batch: 34661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-13	P-B-10_SS	Total/NA	Solid	HRMS-Sox	
LCS 320-34661/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-34661/1-A	Method Blank	Total/NA	Solid	8290	

Analysis Batch: 35054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-33192/2-A	Lab Control Sample	Total/NA	Water	1668C	33192
MB 320-33192/1-A	Method Blank	Total/NA	Water	1668C	33192

Analysis Batch: 35354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-13	P-B-10_SS	Total/NA	Solid	8290A	34660
LCS 320-34660/2-A	Lab Control Sample	Total/NA	Solid	8290A	34660
MB 320-34660/1-A	Method Blank	Total/NA	Solid	8290A	34660

Analysis Batch: 35524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-13	P-B-10_SS	Total/NA	Solid	1668C	34661
LCS 320-34661/2-A	Lab Control Sample	Total/NA	Solid	1668C	34661
MB 320-34661/1-A	Method Blank	Total/NA	Solid	1668C	34661

Analysis Batch: 35731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	1668C	33192

Analysis Batch: 35733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-11	P-B-11_SS	Total/NA	Solid	1668C	34244
LCS 320-34244/2-A	Lab Control Sample	Total/NA	Solid	1668C	34244
MB 320-34244/1-A	Method Blank	Total/NA	Solid	1668C	34244

Analysis Batch: 35928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-13 - RA	P-B-10_SS	Total/NA	Solid	8290A	34660

Metals

Prep Batch: 93312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	7471B	
680-97124-2	PP-B-1 11-13	Total/NA	Solid	7471B	
680-97124-3	PP-B-2 0-4	Total/NA	Solid	7471B	
680-97124-4	PP-B-2 7-15	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 93312 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-5	FM-B-1 0-2	Total/NA	Solid	7471B	
680-97124-6	FM-B-1 2-4	Total/NA	Solid	7471B	
680-97124-7	FM-B-1 13-15	Total/NA	Solid	7471B	
680-97124-8	FM-B-2 0-2	Total/NA	Solid	7471B	
680-97124-9	FM-B-2 2-4	Total/NA	Solid	7471B	
680-97124-10	FM-B-2 13-15	Total/NA	Solid	7471B	
680-97124-11	P-B-11_SS	Total/NA	Solid	7471B	
680-97124-12	P-B-11_SUB	Total/NA	Solid	7471B	
680-97124-13	P-B-10_SS	Total/NA	Solid	7471B	
680-97124-14	P-B-10_SUB	Total/NA	Solid	7471B	
LCS 160-93312/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-93312/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 93523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	7471B	93312
680-97124-2	PP-B-1 11-13	Total/NA	Solid	7471B	93312
680-97124-3	PP-B-2 0-4	Total/NA	Solid	7471B	93312
680-97124-4	PP-B-2 7-15	Total/NA	Solid	7471B	93312
680-97124-5	FM-B-1 0-2	Total/NA	Solid	7471B	93312
680-97124-6	FM-B-1 2-4	Total/NA	Solid	7471B	93312
680-97124-7	FM-B-1 13-15	Total/NA	Solid	7471B	93312
680-97124-8	FM-B-2 0-2	Total/NA	Solid	7471B	93312
680-97124-9	FM-B-2 2-4	Total/NA	Solid	7471B	93312
680-97124-10	FM-B-2 13-15	Total/NA	Solid	7471B	93312
680-97124-11	P-B-11_SS	Total/NA	Solid	7471B	93312
680-97124-12	P-B-11_SUB	Total/NA	Solid	7471B	93312
680-97124-13	P-B-10_SS	Total/NA	Solid	7471B	93312
680-97124-14	P-B-10_SUB	Total/NA	Solid	7471B	93312
LCS 160-93312/2-A	Lab Control Sample	Total/NA	Solid	7471B	93312
MB 160-93312/1-A	Method Blank	Total/NA	Solid	7471B	93312

Prep Batch: 94973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	3050B	
680-97124-1 MS	PP-B-1 0-4	Total/NA	Solid	3050B	
680-97124-1 MSD	PP-B-1 0-4	Total/NA	Solid	3050B	
680-97124-2	PP-B-1 11-13	Total/NA	Solid	3050B	
680-97124-3	PP-B-2 0-4	Total/NA	Solid	3050B	
680-97124-4	PP-B-2 7-15	Total/NA	Solid	3050B	
680-97124-5	FM-B-1 0-2	Total/NA	Solid	3050B	
680-97124-6	FM-B-1 2-4	Total/NA	Solid	3050B	
680-97124-7	FM-B-1 13-15	Total/NA	Solid	3050B	
680-97124-8	FM-B-2 0-2	Total/NA	Solid	3050B	
680-97124-9	FM-B-2 2-4	Total/NA	Solid	3050B	
680-97124-10	FM-B-2 13-15	Total/NA	Solid	3050B	
680-97124-11	P-B-11_SS	Total/NA	Solid	3050B	
680-97124-12	P-B-11_SUB	Total/NA	Solid	3050B	
680-97124-13	P-B-10_SS	Total/NA	Solid	3050B	
680-97124-14	P-B-10_SUB	Total/NA	Solid	3050B	
LCS 160-94973/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 94973 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-94973/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 94976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	3050B	
680-97124-1 MS	PP-B-1 0-4	Total/NA	Solid	3050B	
680-97124-1 MSD	PP-B-1 0-4	Total/NA	Solid	3050B	
680-97124-2	PP-B-1 11-13	Total/NA	Solid	3050B	
680-97124-3	PP-B-2 0-4	Total/NA	Solid	3050B	
680-97124-4	PP-B-2 7-15	Total/NA	Solid	3050B	
680-97124-5	FM-B-1 0-2	Total/NA	Solid	3050B	
680-97124-6	FM-B-1 2-4	Total/NA	Solid	3050B	
680-97124-7	FM-B-1 13-15	Total/NA	Solid	3050B	
680-97124-8	FM-B-2 0-2	Total/NA	Solid	3050B	
680-97124-9	FM-B-2 2-4	Total/NA	Solid	3050B	
680-97124-10	FM-B-2 13-15	Total/NA	Solid	3050B	
680-97124-11	P-B-11_SS	Total/NA	Solid	3050B	
680-97124-12	P-B-11_SUB	Total/NA	Solid	3050B	
680-97124-13	P-B-10_SS	Total/NA	Solid	3050B	
680-97124-14	P-B-10_SUB	Total/NA	Solid	3050B	
LCS 160-94976/19-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 160-94976/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-94976/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 95862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	6020A	94976
680-97124-1 MS	PP-B-1 0-4	Total/NA	Solid	6020A	94976
680-97124-1 MSD	PP-B-1 0-4	Total/NA	Solid	6020A	94976
680-97124-2	PP-B-1 11-13	Total/NA	Solid	6020A	94976
680-97124-3	PP-B-2 0-4	Total/NA	Solid	6020A	94976
680-97124-4	PP-B-2 7-15	Total/NA	Solid	6020A	94976
680-97124-5	FM-B-1 0-2	Total/NA	Solid	6020A	94976
680-97124-6	FM-B-1 2-4	Total/NA	Solid	6020A	94976
680-97124-7	FM-B-1 13-15	Total/NA	Solid	6020A	94976
680-97124-8	FM-B-2 0-2	Total/NA	Solid	6020A	94976
680-97124-9	FM-B-2 2-4	Total/NA	Solid	6020A	94976
680-97124-10	FM-B-2 13-15	Total/NA	Solid	6020A	94976
680-97124-11	P-B-11_SS	Total/NA	Solid	6020A	94976
680-97124-12	P-B-11_SUB	Total/NA	Solid	6020A	94976
680-97124-13	P-B-10_SS	Total/NA	Solid	6020A	94976
680-97124-14	P-B-10_SUB	Total/NA	Solid	6020A	94976
LCS 160-94976/19-A	Lab Control Sample	Total/NA	Solid	6020A	94976
LCS 160-94976/2-A	Lab Control Sample	Total/NA	Solid	6020A	94976
MB 160-94976/1-A	Method Blank	Total/NA	Solid	6020A	94976

Prep Batch: 96024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	3010A	
LCS 160-96024/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-96024/1-A	Method Blank	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 96025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	3010A	
LCS 160-96025/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-96025/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 96510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-8	FM-B-2 0-2	Total/NA	Solid	6020A	94976

Prep Batch: 96983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	7470A	
LCS 160-96983/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 160-96983/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 96993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	6020A	96024
LCS 160-96024/2-A	Lab Control Sample	Total/NA	Water	6020A	96024
MB 160-96024/1-A	Method Blank	Total/NA	Water	6020A	96024

Analysis Batch: 97021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	6010C	96025
LCS 160-96025/2-A	Lab Control Sample	Total/NA	Water	6010C	96025
MB 160-96025/1-A	Method Blank	Total/NA	Water	6010C	96025

Analysis Batch: 97053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	7470A	96983
LCS 160-96983/2-A	Lab Control Sample	Total/NA	Water	7470A	96983
MB 160-96983/1-A	Method Blank	Total/NA	Water	7470A	96983

Analysis Batch: 97291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	6010C	94973
680-97124-1 MS	PP-B-1 0-4	Total/NA	Solid	6010C	94973
680-97124-1 MSD	PP-B-1 0-4	Total/NA	Solid	6010C	94973
680-97124-2	PP-B-1 11-13	Total/NA	Solid	6010C	94973
680-97124-3	PP-B-2 0-4	Total/NA	Solid	6010C	94973
680-97124-4	PP-B-2 7-15	Total/NA	Solid	6010C	94973
680-97124-5	FM-B-1 0-2	Total/NA	Solid	6010C	94973
680-97124-6	FM-B-1 2-4	Total/NA	Solid	6010C	94973
680-97124-7	FM-B-1 13-15	Total/NA	Solid	6010C	94973
680-97124-8	FM-B-2 0-2	Total/NA	Solid	6010C	94973
680-97124-9	FM-B-2 2-4	Total/NA	Solid	6010C	94973
680-97124-10	FM-B-2 13-15	Total/NA	Solid	6010C	94973
680-97124-11	P-B-11_SS	Total/NA	Solid	6010C	94973
680-97124-12	P-B-11_SUB	Total/NA	Solid	6010C	94973
680-97124-13	P-B-10_SS	Total/NA	Solid	6010C	94973
680-97124-14	P-B-10_SUB	Total/NA	Solid	6010C	94973
LCS 160-94973/2-A	Lab Control Sample	Total/NA	Solid	6010C	94973

Metals (Continued)

Analysis Batch: 97291 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-94973/1-A	Method Blank	Total/NA	Solid	6010C	94973

Analysis Batch: 98404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	6010C	94973
680-97124-1 MS	PP-B-1 0-4	Total/NA	Solid	6010C	94973
680-97124-1 MSD	PP-B-1 0-4	Total/NA	Solid	6010C	94973
680-97124-2	PP-B-1 11-13	Total/NA	Solid	6010C	94973
680-97124-3	PP-B-2 0-4	Total/NA	Solid	6010C	94973
680-97124-4	PP-B-2 7-15	Total/NA	Solid	6010C	94973
680-97124-5	FM-B-1 0-2	Total/NA	Solid	6010C	94973
680-97124-6	FM-B-1 2-4	Total/NA	Solid	6010C	94973
680-97124-7	FM-B-1 13-15	Total/NA	Solid	6010C	94973
680-97124-8	FM-B-2 0-2	Total/NA	Solid	6010C	94973
680-97124-9	FM-B-2 2-4	Total/NA	Solid	6010C	94973
680-97124-10	FM-B-2 13-15	Total/NA	Solid	6010C	94973
680-97124-11	P-B-11_SS	Total/NA	Solid	6010C	94973
680-97124-12	P-B-11_SUB	Total/NA	Solid	6010C	94973
680-97124-13	P-B-10_SS	Total/NA	Solid	6010C	94973
680-97124-14	P-B-10_SUB	Total/NA	Solid	6010C	94973
LCS 160-94973/2-A	Lab Control Sample	Total/NA	Solid	6010C	94973
MB 160-94973/1-A	Method Blank	Total/NA	Solid	6010C	94973

General Chemistry

Analysis Batch: 92246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	300.0	
680-97124-15 MS	RINSATE	Total/NA	Water	300.0	
680-97124-15 MSD	RINSATE	Total/NA	Water	300.0	
LCS 160-92246/10	Lab Control Sample	Total/NA	Water	300.0	
MB 160-92246/9	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 93514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	Moisture	
680-97124-1 DU	PP-B-1 0-4	Total/NA	Solid	Moisture	
680-97124-2	PP-B-1 11-13	Total/NA	Solid	Moisture	
680-97124-3	PP-B-2 0-4	Total/NA	Solid	Moisture	
680-97124-4	PP-B-2 7-15	Total/NA	Solid	Moisture	
680-97124-5	FM-B-1 0-2	Total/NA	Solid	Moisture	
680-97124-6	FM-B-1 2-4	Total/NA	Solid	Moisture	
680-97124-7	FM-B-1 13-15	Total/NA	Solid	Moisture	
680-97124-8	FM-B-2 0-2	Total/NA	Solid	Moisture	
680-97124-9	FM-B-2 2-4	Total/NA	Solid	Moisture	
680-97124-10	FM-B-2 13-15	Total/NA	Solid	Moisture	
680-97124-11	P-B-11_SS	Total/NA	Solid	Moisture	
680-97124-12	P-B-11_SUB	Total/NA	Solid	Moisture	
680-97124-13	P-B-10_SS	Total/NA	Solid	Moisture	
680-97124-14	P-B-10_SUB	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 94529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	300.0	
680-97124-15 MS	RINSATE	Total/NA	Water	300.0	
680-97124-15 MSD	RINSATE	Total/NA	Water	300.0	
LCS 160-94529/10	Lab Control Sample	Total/NA	Water	300.0	
MB 160-94529/9	Method Blank	Total/NA	Water	300.0	

Leach Batch: 97083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1 - DL	PP-B-1 0-4	Soluble	Solid	DI Leach	
680-97124-1	PP-B-1 0-4	Soluble	Solid	DI Leach	
680-97124-2	PP-B-1 11-13	Soluble	Solid	DI Leach	
680-97124-2 - DL	PP-B-1 11-13	Soluble	Solid	DI Leach	
680-97124-2 MS - DL	PP-B-1 11-13	Soluble	Solid	DI Leach	
680-97124-2 MS	PP-B-1 11-13	Soluble	Solid	DI Leach	
680-97124-2 MSD	PP-B-1 11-13	Soluble	Solid	DI Leach	
680-97124-2 MSD - DL	PP-B-1 11-13	Soluble	Solid	DI Leach	
680-97124-3	PP-B-2 0-4	Soluble	Solid	DI Leach	
680-97124-3 - DL2	PP-B-2 0-4	Soluble	Solid	DI Leach	
680-97124-3 - DL	PP-B-2 0-4	Soluble	Solid	DI Leach	
680-97124-4 - DL2	PP-B-2 7-15	Soluble	Solid	DI Leach	
680-97124-4 - DL	PP-B-2 7-15	Soluble	Solid	DI Leach	
680-97124-4	PP-B-2 7-15	Soluble	Solid	DI Leach	
680-97124-5	FM-B-1 0-2	Soluble	Solid	DI Leach	
680-97124-5 - DL	FM-B-1 0-2	Soluble	Solid	DI Leach	
680-97124-6	FM-B-1 2-4	Soluble	Solid	DI Leach	
680-97124-7	FM-B-1 13-15	Soluble	Solid	DI Leach	
680-97124-8	FM-B-2 0-2	Soluble	Solid	DI Leach	
680-97124-8 - DL	FM-B-2 0-2	Soluble	Solid	DI Leach	
680-97124-9	FM-B-2 2-4	Soluble	Solid	DI Leach	
680-97124-9 - DL	FM-B-2 2-4	Soluble	Solid	DI Leach	
680-97124-10	FM-B-2 13-15	Soluble	Solid	DI Leach	
680-97124-10 - DL	FM-B-2 13-15	Soluble	Solid	DI Leach	
680-97124-11	P-B-11_SS	Soluble	Solid	DI Leach	
680-97124-11 - DL	P-B-11_SS	Soluble	Solid	DI Leach	
680-97124-11 MS - DL	P-B-11_SS	Soluble	Solid	DI Leach	
680-97124-11 MS	P-B-11_SS	Soluble	Solid	DI Leach	
680-97124-12 - DL	P-B-11_SUB	Soluble	Solid	DI Leach	
680-97124-13 - DL	P-B-10_SS	Soluble	Solid	DI Leach	
680-97124-13 - DL2	P-B-10_SS	Soluble	Solid	DI Leach	
680-97124-14 - DL	P-B-10_SUB	Soluble	Solid	DI Leach	
680-97124-14 - DL2	P-B-10_SUB	Soluble	Solid	DI Leach	
680-97124-14	P-B-10_SUB	Soluble	Solid	DI Leach	
LCS 160-97083/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 160-97083/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 99083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Soluble	Solid	300.0	97083
680-97124-1 - DL	PP-B-1 0-4	Soluble	Solid	300.0	97083
680-97124-2	PP-B-1 11-13	Soluble	Solid	300.0	97083
680-97124-2 - DL	PP-B-1 11-13	Soluble	Solid	300.0	97083

General Chemistry (Continued)

Analysis Batch: 99083 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-2 MS	PP-B-1 11-13	Soluble	Solid	300.0	97083
680-97124-2 MS - DL	PP-B-1 11-13	Soluble	Solid	300.0	97083
680-97124-2 MSD	PP-B-1 11-13	Soluble	Solid	300.0	97083
680-97124-2 MSD - DL	PP-B-1 11-13	Soluble	Solid	300.0	97083
680-97124-3	PP-B-2 0-4	Soluble	Solid	300.0	97083
680-97124-3 - DL	PP-B-2 0-4	Soluble	Solid	300.0	97083
680-97124-3 - DL2	PP-B-2 0-4	Soluble	Solid	300.0	97083
680-97124-4	PP-B-2 7-15	Soluble	Solid	300.0	97083
680-97124-4 - DL	PP-B-2 7-15	Soluble	Solid	300.0	97083
680-97124-4 - DL2	PP-B-2 7-15	Soluble	Solid	300.0	97083
680-97124-5	FM-B-1 0-2	Soluble	Solid	300.0	97083
680-97124-5 - DL	FM-B-1 0-2	Soluble	Solid	300.0	97083
680-97124-6	FM-B-1 2-4	Soluble	Solid	300.0	97083
680-97124-7	FM-B-1 13-15	Soluble	Solid	300.0	97083
680-97124-8	FM-B-2 0-2	Soluble	Solid	300.0	97083
680-97124-8 - DL	FM-B-2 0-2	Soluble	Solid	300.0	97083
680-97124-9	FM-B-2 2-4	Soluble	Solid	300.0	97083
680-97124-9 - DL	FM-B-2 2-4	Soluble	Solid	300.0	97083
680-97124-10	FM-B-2 13-15	Soluble	Solid	300.0	97083
680-97124-10 - DL	FM-B-2 13-15	Soluble	Solid	300.0	97083
680-97124-11	P-B-11_SS	Soluble	Solid	300.0	97083
680-97124-11 - DL	P-B-11_SS	Soluble	Solid	300.0	97083
680-97124-11 MS	P-B-11_SS	Soluble	Solid	300.0	97083
680-97124-11 MS - DL	P-B-11_SS	Soluble	Solid	300.0	97083
680-97124-12 - DL	P-B-11_SUB	Soluble	Solid	300.0	97083
680-97124-13 - DL	P-B-10_SS	Soluble	Solid	300.0	97083
680-97124-13 - DL2	P-B-10_SS	Soluble	Solid	300.0	97083
680-97124-14	P-B-10_SUB	Soluble	Solid	300.0	97083
680-97124-14 - DL	P-B-10_SUB	Soluble	Solid	300.0	97083
680-97124-14 - DL2	P-B-10_SUB	Soluble	Solid	300.0	97083
LCS 160-97083/2-A	Lab Control Sample	Soluble	Solid	300.0	97083
MB 160-97083/1-A	Method Blank	Soluble	Solid	300.0	97083

Rad

Prep Batch: 92276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	PrecSep-21	
LCS 160-92276/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
MB 160-92276/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Prep Batch: 92278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	PrecSep_0	
LCS 160-92278/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-92278/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Leach Batch: 93478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	Dry and Grind	

Rad (Continued)

Leach Batch: 93478 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1 DU	PP-B-1 0-4	Total/NA	Solid	Dry and Grind	
680-97124-2	PP-B-1 11-13	Total/NA	Solid	Dry and Grind	
680-97124-3	PP-B-2 0-4	Total/NA	Solid	Dry and Grind	
680-97124-4	PP-B-2 7-15	Total/NA	Solid	Dry and Grind	
680-97124-5	FM-B-1 0-2	Total/NA	Solid	Dry and Grind	
680-97124-6	FM-B-1 2-4	Total/NA	Solid	Dry and Grind	
680-97124-7	FM-B-1 13-15	Total/NA	Solid	Dry and Grind	
680-97124-8	FM-B-2 0-2	Total/NA	Solid	Dry and Grind	
680-97124-9	FM-B-2 2-4	Total/NA	Solid	Dry and Grind	
680-97124-10	FM-B-2 13-15	Total/NA	Solid	Dry and Grind	
680-97124-13	P-B-10_SS	Total/NA	Solid	Dry and Grind	
680-97124-14	P-B-10_SUB	Total/NA	Solid	Dry and Grind	

Prep Batch: 94333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	Fill_Geo-21	93478
680-97124-1 DU	PP-B-1 0-4	Total/NA	Solid	Fill_Geo-21	93478
680-97124-2	PP-B-1 11-13	Total/NA	Solid	Fill_Geo-21	93478
680-97124-3	PP-B-2 0-4	Total/NA	Solid	Fill_Geo-21	93478
680-97124-4	PP-B-2 7-15	Total/NA	Solid	Fill_Geo-21	93478
680-97124-5	FM-B-1 0-2	Total/NA	Solid	Fill_Geo-21	93478
680-97124-6	FM-B-1 2-4	Total/NA	Solid	Fill_Geo-21	93478
680-97124-7	FM-B-1 13-15	Total/NA	Solid	Fill_Geo-21	93478
680-97124-8	FM-B-2 0-2	Total/NA	Solid	Fill_Geo-21	93478
680-97124-9	FM-B-2 2-4	Total/NA	Solid	Fill_Geo-21	93478
680-97124-10	FM-B-2 13-15	Total/NA	Solid	Fill_Geo-21	93478
680-97124-13	P-B-10_SS	Total/NA	Solid	Fill_Geo-21	93478
680-97124-14	P-B-10_SUB	Total/NA	Solid	Fill_Geo-21	93478
LCS 160-94333/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-94333/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Prep Batch: 94731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	DPS-21	93478
680-97124-1 DU	PP-B-1 0-4	Total/NA	Solid	DPS-21	93478
680-97124-2	PP-B-1 11-13	Total/NA	Solid	DPS-21	93478
680-97124-3	PP-B-2 0-4	Total/NA	Solid	DPS-21	93478
680-97124-4	PP-B-2 7-15	Total/NA	Solid	DPS-21	93478
680-97124-5	FM-B-1 0-2	Total/NA	Solid	DPS-21	93478
680-97124-6	FM-B-1 2-4	Total/NA	Solid	DPS-21	93478
680-97124-7	FM-B-1 13-15	Total/NA	Solid	DPS-21	93478
680-97124-8	FM-B-2 0-2	Total/NA	Solid	DPS-21	93478
680-97124-9	FM-B-2 2-4	Total/NA	Solid	DPS-21	93478
680-97124-10	FM-B-2 13-15	Total/NA	Solid	DPS-21	93478
680-97124-13	P-B-10_SS	Total/NA	Solid	DPS-21	93478
680-97124-14	P-B-10_SUB	Total/NA	Solid	DPS-21	93478
LCS 160-94731/2-A	Lab Control Sample	Total/NA	Solid	DPS-21	
MB 160-94731/1-A	Method Blank	Total/NA	Solid	DPS-21	

Rad (Continued)

Prep Batch: 94735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	DPS-0	93478
680-97124-1 DU	PP-B-1 0-4	Total/NA	Solid	DPS-0	93478
680-97124-2	PP-B-1 11-13	Total/NA	Solid	DPS-0	93478
680-97124-3	PP-B-2 0-4	Total/NA	Solid	DPS-0	93478
680-97124-4	PP-B-2 7-15	Total/NA	Solid	DPS-0	93478
680-97124-5	FM-B-1 0-2	Total/NA	Solid	DPS-0	93478
680-97124-6	FM-B-1 2-4	Total/NA	Solid	DPS-0	93478
680-97124-7	FM-B-1 13-15	Total/NA	Solid	DPS-0	93478
680-97124-8	FM-B-2 0-2	Total/NA	Solid	DPS-0	93478
680-97124-9	FM-B-2 2-4	Total/NA	Solid	DPS-0	93478
680-97124-10	FM-B-2 13-15	Total/NA	Solid	DPS-0	93478
680-97124-13	P-B-10_SS	Total/NA	Solid	DPS-0	93478
680-97124-14	P-B-10_SUB	Total/NA	Solid	DPS-0	93478
LCS 160-94735/2-A	Lab Control Sample	Total/NA	Solid	DPS-0	
MB 160-94735/1-A	Method Blank	Total/NA	Solid	DPS-0	

Prep Batch: 95042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	Fill_Geo-21	
680-97124-15 DU	RINSATE	Total/NA	Water	Fill_Geo-21	
LCS 160-95042/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-21	
MB 160-95042/1-A	Method Blank	Total/NA	Water	Fill_Geo-21	

Prep Batch: 96736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	Thin_Layer	93478
680-97124-2	PP-B-1 11-13	Total/NA	Solid	Thin_Layer	93478
680-97124-3	PP-B-2 0-4	Total/NA	Solid	Thin_Layer	93478
680-97124-4	PP-B-2 7-15	Total/NA	Solid	Thin_Layer	93478
680-97124-5	FM-B-1 0-2	Total/NA	Solid	Thin_Layer	93478
680-97124-6	FM-B-1 2-4	Total/NA	Solid	Thin_Layer	93478
680-97124-7	FM-B-1 13-15	Total/NA	Solid	Thin_Layer	93478
680-97124-8	FM-B-2 0-2	Total/NA	Solid	Thin_Layer	93478
680-97124-9	FM-B-2 2-4	Total/NA	Solid	Thin_Layer	93478
680-97124-10	FM-B-2 13-15	Total/NA	Solid	Thin_Layer	93478
680-97124-13	P-B-10_SS	Total/NA	Solid	Thin_Layer	93478
680-97124-14	P-B-10_SUB	Total/NA	Solid	Thin_Layer	93478
LCS 160-96736/2-A	Lab Control Sample	Total/NA	Solid	Thin_Layer	
MB 160-96736/1-A	Method Blank	Total/NA	Solid	Thin_Layer	

Prep Batch: 97007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-97007/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-97007/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-97007/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 98058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	ExtChrom	93478
680-97124-1 DU	PP-B-1 0-4	Total/NA	Solid	ExtChrom	93478

Rad (Continued)

Prep Batch: 98058 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-2	PP-B-1 11-13	Total/NA	Solid	ExtChrom	93478
680-97124-3	PP-B-2 0-4	Total/NA	Solid	ExtChrom	93478
680-97124-4	PP-B-2 7-15	Total/NA	Solid	ExtChrom	93478
680-97124-5	FM-B-1 0-2	Total/NA	Solid	ExtChrom	93478
680-97124-6	FM-B-1 2-4	Total/NA	Solid	ExtChrom	93478
680-97124-7	FM-B-1 13-15	Total/NA	Solid	ExtChrom	93478
680-97124-8	FM-B-2 0-2	Total/NA	Solid	ExtChrom	93478
680-97124-9	FM-B-2 2-4	Total/NA	Solid	ExtChrom	93478
680-97124-10	FM-B-2 13-15	Total/NA	Solid	ExtChrom	93478
680-97124-13	P-B-10_SS	Total/NA	Solid	ExtChrom	93478
680-97124-14	P-B-10_SUB	Total/NA	Solid	ExtChrom	93478
LCS 160-98058/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-98058/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 98133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-1	PP-B-1 0-4	Total/NA	Solid	ExtChrom	93478
680-97124-1 DU	PP-B-1 0-4	Total/NA	Solid	ExtChrom	93478
680-97124-2	PP-B-1 11-13	Total/NA	Solid	ExtChrom	93478
680-97124-3	PP-B-2 0-4	Total/NA	Solid	ExtChrom	93478
680-97124-4	PP-B-2 7-15	Total/NA	Solid	ExtChrom	93478
680-97124-5	FM-B-1 0-2	Total/NA	Solid	ExtChrom	93478
680-97124-6	FM-B-1 2-4	Total/NA	Solid	ExtChrom	93478
680-97124-7	FM-B-1 13-15	Total/NA	Solid	ExtChrom	93478
680-97124-8	FM-B-2 0-2	Total/NA	Solid	ExtChrom	93478
680-97124-9	FM-B-2 2-4	Total/NA	Solid	ExtChrom	93478
680-97124-10	FM-B-2 13-15	Total/NA	Solid	ExtChrom	93478
680-97124-13	P-B-10_SS	Total/NA	Solid	ExtChrom	93478
680-97124-14	P-B-10_SUB	Total/NA	Solid	ExtChrom	93478
LCS 160-98133/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-98133/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 100320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	Evaporation	
LCS 160-100320/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-100320/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-100320/1-A	Method Blank	Total/NA	Water	Evaporation	

Prep Batch: 100386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97124-15	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-100386/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-100386/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-100386/1-A	Method Blank	Total/NA	Water	ExtChrom	

Client Sample ID: PP-B-1 0-4

Lab Sample ID: 680-97124-1

Date Collected: 12/12/13 08:35

Matrix: Solid

Date Received: 12/14/13 12:00

Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL
Total/NA	Analysis	7471B		1	93523	12/19/13 17:40	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 02:11	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 01:15	KLE	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 20:37	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL
Soluble	Leach	DI Leach			97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0		1	99083	01/14/14 23:44	AMF	TAL SL
Soluble	Leach	DI Leach	DL		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	99083	01/14/14 23:59	AMF	TAL SL
Total/NA	Prep	ExtChrom			98058	01/14/14 10:14	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	100171	01/21/14 12:28	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	ExtChrom			98133	01/14/14 10:14	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100266	01/21/14 17:48	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Thin_Layer			96736	01/08/14 10:52	MJS	TAL SL
Total/NA	Analysis	900.0		1	96785	01/08/14 16:19	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98113	01/14/14 20:01	EMN	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	DPS-0			94735	12/26/13 11:09	RLS	TAL SL
Total/NA	Analysis	904.0		1	99333	01/17/14 11:37	MLK	TAL SL
Total/NA	Prep	DPS-21			94731	12/26/13 10:52	RLS	TAL SL
Total/NA	Analysis	903.0		1	99967	01/20/14 19:38	MLK	TAL SL

Client Sample ID: PP-B-1 11-13

Lab Sample ID: 680-97124-2

Date Collected: 12/12/13 09:20

Matrix: Solid

Date Received: 12/14/13 12:00

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL
Total/NA	Analysis	7471B		1	93523	12/19/13 17:41	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 02:38	CCB	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 01:38	KLE	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 20:52	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL
Soluble	Leach	DI Leach			97083	01/14/14 16:00	AMF	TAL SL

Client Sample ID: PP-B-1 11-13

Lab Sample ID: 680-97124-2

Date Collected: 12/12/13 09:20
Matrix: Solid
Date Received: 12/14/13 12:00
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	300.0		1	99083	01/15/14 00:28	AMF	TAL SL
Soluble	Leach	DI Leach	DL		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	99083	01/15/14 00:43	AMF	TAL SL
Total/NA	Prep	ExtChrom			98133	01/14/14 10:14	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100183	01/21/14 17:48	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	ExtChrom			98058	01/14/14 10:14	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	100216	01/21/14 12:28	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Thin_Layer			96736	01/08/14 10:52	MJS	TAL SL
Total/NA	Analysis	900.0		1	96785	01/08/14 16:19	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98122	01/14/14 19:59	RTM	TAL SL
Total/NA	Prep	DPS-0			94735	12/26/13 11:09	RLS	TAL SL
Total/NA	Analysis	904.0		1	99333	01/17/14 11:37	MLK	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	DPS-21			94731	12/26/13 10:52	RLS	TAL SL
Total/NA	Analysis	903.0		1	99967	01/20/14 19:38	MLK	TAL SL

Client Sample ID: PP-B-2 0-4

Lab Sample ID: 680-97124-3

Date Collected: 12/12/13 10:20
Matrix: Solid
Date Received: 12/14/13 12:00
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL
Total/NA	Analysis	7471B		1	93523	12/19/13 17:43	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 02:45	CCB	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 01:42	KLE	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 20:56	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL
Soluble	Leach	DI Leach			97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0		1	99083	01/15/14 03:13	AMF	TAL SL
Soluble	Leach	DI Leach	DL		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	99083	01/15/14 03:27	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	99083	01/15/14 03:42	AMF	TAL SL
Total/NA	Prep	ExtChrom			98133	01/14/14 10:14	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100193	01/21/14 17:48	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	ExtChrom			98058	01/14/14 10:14	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	100233	01/21/14 12:28	RTM	TAL SL

Client Sample ID: PP-B-2 0-4

Lab Sample ID: 680-97124-3

Date Collected: 12/12/13 10:20

Matrix: Solid

Date Received: 12/14/13 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Thin_Layer			96736	01/08/14 10:52	MJS	TAL SL
Total/NA	Analysis	900.0		1	96785	01/08/14 16:19	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98110	01/14/14 20:42	EMN	TAL SL
Total/NA	Prep	DPS-0			94735	12/26/13 11:09	RLS	TAL SL
Total/NA	Analysis	904.0		1	99333	01/17/14 11:37	MLK	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	DPS-21			94731	12/26/13 10:52	RLS	TAL SL
Total/NA	Analysis	903.0		1	99967	01/20/14 19:38	MLK	TAL SL

Client Sample ID: PP-B-2 7-15

Lab Sample ID: 680-97124-4

Date Collected: 12/12/13 11:00

Matrix: Solid

Date Received: 12/14/13 12:00

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL
Total/NA	Analysis	7471B		1	93523	12/19/13 17:45	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 02:52	CCB	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 01:46	KLE	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 21:00	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL
Soluble	Leach	DI Leach			97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0		1	99083	01/15/14 04:27	AMF	TAL SL
Soluble	Leach	DI Leach	DL		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	99083	01/15/14 04:42	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	99083	01/15/14 04:57	AMF	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	ExtChrom			98133	01/14/14 10:14	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100205	01/21/14 17:48	RTM	TAL SL
Total/NA	Prep	ExtChrom			98058	01/14/14 10:14	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	100244	01/21/14 12:28	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Thin_Layer			96736	01/08/14 10:52	MJS	TAL SL
Total/NA	Analysis	900.0		1	96785	01/08/14 16:19	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98430	01/14/14 20:41	EMN	TAL SL
Total/NA	Prep	DPS-0			94735	12/26/13 11:09	RLS	TAL SL
Total/NA	Analysis	904.0		1	99333	01/17/14 11:37	MLK	TAL SL

Client Sample ID: PP-B-2 7-15

Lab Sample ID: 680-97124-4

Date Collected: 12/12/13 11:00
Matrix: Solid
Date Received: 12/14/13 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	DPS-21			94731	12/26/13 10:52	RLS	TAL SL
Total/NA	Analysis	903.0		1	99967	01/20/14 19:38	MLK	TAL SL

Client Sample ID: FM-B-1 0-2

Lab Sample ID: 680-97124-5

Date Collected: 12/12/13 12:00
Matrix: Solid
Date Received: 12/14/13 12:00
Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL
Total/NA	Analysis	7471B		1	93523	12/19/13 17:46	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 03:12	CCB	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 01:50	KLE	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 21:04	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL
Soluble	Leach	DI Leach			97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0		1	99083	01/15/14 05:12	AMF	TAL SL
Soluble	Leach	DI Leach	DL		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	99083	01/15/14 05:27	AMF	TAL SL
Total/NA	Prep	ExtChrom			98133	01/14/14 10:14	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100206	01/21/14 17:48	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	ExtChrom			98058	01/14/14 10:14	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	100255	01/21/14 12:28	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Thin_Layer			96736	01/08/14 10:52	MJS	TAL SL
Total/NA	Analysis	900.0		1	96785	01/08/14 16:19	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98113	01/14/14 20:42	EMN	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	DPS-0			94735	12/26/13 11:09	RLS	TAL SL
Total/NA	Analysis	904.0		1	99333	01/17/14 11:37	MLK	TAL SL
Total/NA	Prep	DPS-21			94731	12/26/13 10:52	RLS	TAL SL
Total/NA	Analysis	903.0		1	99967	01/20/14 19:39	MLK	TAL SL

Client Sample ID: FM-B-1 2-4

Lab Sample ID: 680-97124-6

Date Collected: 12/12/13 12:15
Matrix: Solid
Date Received: 12/14/13 12:00
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL

Client Sample ID: FM-B-1 2-4 — **Lab Sample ID: 680-97124-6**
Date Collected: 12/12/13 12:15 — **Matrix: Solid**
Date Received: 12/14/13 12:00 — **Percent Solids: 93.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	93523	12/19/13 17:48	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 03:19	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 01:54	KLE	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 21:08	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL
Soluble	Leach	DI Leach			97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0		1	99083	01/15/14 05:57	AMF	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	ExtChrom			98133	01/14/14 10:14	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100207	01/21/14 17:48	RTM	TAL SL
Total/NA	Prep	ExtChrom			98058	01/14/14 10:14	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	100266	01/21/14 12:28	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Thin_Layer			96736	01/08/14 10:52	MJS	TAL SL
Total/NA	Analysis	900.0		1	96785	01/08/14 16:19	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98122	01/14/14 20:41	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	DPS-0			94735	12/26/13 11:09	RLS	TAL SL
Total/NA	Analysis	904.0		1	99333	01/17/14 11:37	MLK	TAL SL
Total/NA	Prep	DPS-21			94731	12/26/13 10:52	RLS	TAL SL
Total/NA	Analysis	903.0		1	99967	01/20/14 19:39	MLK	TAL SL

Client Sample ID: FM-B-1 13-15 — **Lab Sample ID: 680-97124-7**
Date Collected: 12/12/13 12:50 — **Matrix: Solid**
Date Received: 12/14/13 12:00 — **Percent Solids: 94.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL
Total/NA	Analysis	7471B		1	93523	12/19/13 17:53	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 03:25	CCB	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 01:57	KLE	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 21:19	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL
Soluble	Leach	DI Leach			97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0		1	99083	01/15/14 07:11	AMF	TAL SL
Total/NA	Prep	ExtChrom			98058	01/14/14 10:14	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	100172	01/21/14 12:28	RTM	TAL SL

Client Sample ID: FM-B-1 13-15

Lab Sample ID: 680-97124-7

Date Collected: 12/12/13 12:50

Matrix: Solid

Date Received: 12/14/13 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	ExtChrom			98133	01/14/14 10:14	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100208	01/21/14 17:48	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Thin_Layer			96736	01/08/14 10:52	MJS	TAL SL
Total/NA	Analysis	900.0		1	96785	01/08/14 16:19	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98109	01/14/14 21:19	EMN	TAL SL
Total/NA	Prep	DPS-0			94735	12/26/13 11:09	RLS	TAL SL
Total/NA	Analysis	904.0		1	99333	01/17/14 11:37	MLK	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	DPS-21			94731	12/26/13 10:52	RLS	TAL SL
Total/NA	Analysis	903.0		1	99967	01/20/14 19:39	MLK	TAL SL

Client Sample ID: FM-B-2 0-2

Lab Sample ID: 680-97124-8

Date Collected: 12/12/13 13:40

Matrix: Solid

Date Received: 12/14/13 12:00

Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL
Total/NA	Analysis	7471B		1	93523	12/19/13 17:54	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 03:32	CCB	TAL SL
Total/NA	Analysis	6020A		50	96510	01/03/14 19:01	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 02:01	KLE	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 21:23	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL
Soluble	Leach	DI Leach			97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0		1	99083	01/15/14 07:56	AMF	TAL SL
Soluble	Leach	DI Leach	DL		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	99083	01/15/14 08:11	AMF	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	ExtChrom			98058	01/14/14 10:14	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	100183	01/21/14 12:28	RTM	TAL SL
Total/NA	Prep	ExtChrom			98133	01/14/14 10:14	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100209	01/21/14 17:48	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Thin_Layer			96736	01/08/14 10:52	MJS	TAL SL
Total/NA	Analysis	900.0		1	96771	01/08/14 19:51	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98110	01/14/14 21:18	EMN	TAL SL

Client Sample ID: FM-B-2 0-2

Lab Sample ID: 680-97124-8

Date Collected: 12/12/13 13:40

Matrix: Solid

Date Received: 12/14/13 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	DPS-0			94735	12/26/13 11:09	RLS	TAL SL
Total/NA	Analysis	904.0		1	99333	01/17/14 11:37	MLK	TAL SL
Total/NA	Prep	DPS-21			94731	12/26/13 10:52	RLS	TAL SL
Total/NA	Analysis	903.0		1	99967	01/20/14 19:39	MLK	TAL SL

Client Sample ID: FM-B-2 2-4

Lab Sample ID: 680-97124-9

Date Collected: 12/12/13 13:55

Matrix: Solid

Date Received: 12/14/13 12:00

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL
Total/NA	Analysis	7471B		1	93523	12/19/13 17:56	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 03:39	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 02:13	KLE	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 21:27	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL
Soluble	Leach	DI Leach			97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0		1	99083	01/15/14 08:41	AMF	TAL SL
Soluble	Leach	DI Leach	DL		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	99083	01/15/14 08:56	AMF	TAL SL
Total/NA	Prep	ExtChrom			98058	01/14/14 10:14	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	100193	01/21/14 12:28	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	ExtChrom			98133	01/14/14 10:14	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100210	01/21/14 17:48	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Thin_Layer			96736	01/08/14 10:52	MJS	TAL SL
Total/NA	Analysis	900.0		1	96771	01/08/14 19:51	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98430	01/14/14 21:19	EMN	TAL SL
Total/NA	Prep	DPS-0			94735	12/26/13 11:09	RLS	TAL SL
Total/NA	Analysis	904.0		1	99333	01/17/14 11:37	MLK	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	DPS-21			94731	12/26/13 10:52	RLS	TAL SL
Total/NA	Analysis	903.0		1	99967	01/20/14 19:39	MLK	TAL SL

Client Sample ID: FM-B-2 13-15

Lab Sample ID: 680-97124-10

Date Collected: 12/12/13 14:45

Matrix: Solid

Date Received: 12/14/13 12:00

Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL
Total/NA	Analysis	7471B		1	93523	12/19/13 17:58	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 03:46	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 02:17	KLE	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 21:31	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL
Soluble	Leach	DI Leach			97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0		1	99083	01/15/14 09:55	AMF	TAL SL
Soluble	Leach	DI Leach	DL		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	99083	01/15/14 10:10	AMF	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	ExtChrom			98058	01/14/14 10:14	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	100205	01/21/14 12:28	RTM	TAL SL
Total/NA	Prep	ExtChrom			98133	01/14/14 10:14	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100211	01/21/14 17:48	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Thin_Layer			96736	01/08/14 10:52	MJS	TAL SL
Total/NA	Analysis	900.0		1	96771	01/08/14 19:51	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98113	01/14/14 21:18	EMN	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	DPS-0			94735	12/26/13 11:09	RLS	TAL SL
Total/NA	Analysis	904.0		1	99333	01/17/14 11:38	MLK	TAL SL
Total/NA	Prep	DPS-21			94731	12/26/13 10:52	RLS	TAL SL
Total/NA	Analysis	903.0		1	99967	01/20/14 19:39	MLK	TAL SL

Client Sample ID: P-B-11_SS

Lab Sample ID: 680-97124-11

Date Collected: 12/11/13 12:15

Matrix: Solid

Date Received: 12/14/13 12:00

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			34244	01/20/14 12:06	TGL	TAL SAC
Total/NA	Analysis	1668C		1	35733	02/07/14 05:26	KSS	TAL SAC
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL
Total/NA	Analysis	7471B		1	93523	12/19/13 17:59	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 03:52	CCB	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 02:20	KLE	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 21:35	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL

Client Sample ID: P-B-11_SS

Lab Sample ID: 680-97124-11

Date Collected: 12/11/13 12:15

Matrix: Solid

Date Received: 12/14/13 12:00

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach	DL		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	99083	01/15/14 10:55	AMF	TAL SL
Soluble	Leach	DI Leach			97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0		1	99083	01/15/14 10:40	AMF	TAL SL

Client Sample ID: P-B-11_SUB

Lab Sample ID: 680-97124-12

Date Collected: 12/11/13 13:15

Matrix: Solid

Date Received: 12/14/13 12:00

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL
Total/NA	Analysis	7471B		1	93523	12/19/13 18:01	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 03:59	CCB	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 02:24	KLE	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 21:39	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL
Soluble	Leach	DI Leach	DL		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	99083	01/15/14 12:54	AMF	TAL SL

Client Sample ID: P-B-10_SS

Lab Sample ID: 680-97124-13

Date Collected: 12/11/13 10:10

Matrix: Solid

Date Received: 12/14/13 12:00

Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			92812	12/18/13 11:29	CNS	TAL SL
Total/NA	Analysis	8270D		1	93362	12/19/13 02:00	JSW	TAL SL
Total/NA	Prep	8290			34660	01/24/14 12:46	TGL	TAL SAC
Total/NA	Analysis	8290A		1	35354	02/01/14 05:54	JRB	TAL SAC
Total/NA	Prep	HRMS-Sox			34661	01/24/14 12:53	TGL	TAL SAC
Total/NA	Analysis	1668C		1	35524	02/04/14 19:45	KSS	TAL SAC
Total/NA	Prep	8290	RA		34660	01/24/14 12:46	TGL	TAL SAC
Total/NA	Analysis	8290A	RA	1	35928	02/07/14 20:29	SMA	TAL SAC
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL
Total/NA	Analysis	7471B		20	93523	12/20/13 07:20	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 04:06	CCB	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 02:28	KLE	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 21:42	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL
Soluble	Leach	DI Leach	DL		97083	01/14/14 16:00	AMF	TAL SL

Client Sample ID: P-B-10_SS

Lab Sample ID: 680-97124-13

Date Collected: 12/11/13 10:10

Matrix: Solid

Date Received: 12/14/13 12:00

Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	300.0	DL	20	99083	01/15/14 13:39	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	99083	01/15/14 13:54	AMF	TAL SL
Total/NA	Prep	ExtChrom			98058	01/14/14 10:14	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	100206	01/21/14 12:28	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	ExtChrom			98133	01/14/14 10:14	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100212	01/21/14 17:47	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Thin_Layer			96736	01/08/14 10:52	MJS	TAL SL
Total/NA	Analysis	900.0		1	96771	01/08/14 19:51	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98122	01/14/14 21:16	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	DPS-0			94735	12/26/13 11:09	RLS	TAL SL
Total/NA	Analysis	904.0		1	99333	01/17/14 11:38	MLK	TAL SL
Total/NA	Prep	DPS-21			94731	12/26/13 10:52	RLS	TAL SL
Total/NA	Analysis	903.0		1	99967	01/20/14 19:39	MLK	TAL SL

Client Sample ID: P-B-10_SUB

Lab Sample ID: 680-97124-14

Date Collected: 12/11/13 11:40

Matrix: Solid

Date Received: 12/14/13 12:00

Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			93312	12/19/13 09:05	MTS	TAL SL
Total/NA	Analysis	7471B		1	93523	12/19/13 18:04	MTS	TAL SL
Total/NA	Prep	3050B			94976	12/27/13 10:07	WA1	TAL SL
Total/NA	Analysis	6020A		10	95862	01/03/14 04:12	CCB	TAL SL
Total/NA	Analysis	6010C		5	97291	01/10/14 02:32	KLE	TAL SL
Total/NA	Prep	3050B			94973	12/27/13 10:01	WA1	TAL SL
Total/NA	Analysis	6010C		10	98404	01/14/14 21:46	KLE	TAL SL
Total/NA	Analysis	Moisture		1	93514	12/20/13 00:55	SDB	TAL SL
Soluble	Leach	DI Leach			97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0		1	99083	01/15/14 14:09	AMF	TAL SL
Soluble	Leach	DI Leach	DL		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	99083	01/15/14 14:24	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		97083	01/14/14 16:00	AMF	TAL SL
Soluble	Analysis	300.0	DL2	100	99083	01/15/14 14:39	AMF	TAL SL
Total/NA	Prep	ExtChrom			98058	01/14/14 10:14	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	100207	01/21/14 12:28	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	ExtChrom			98133	01/14/14 10:14	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100213	01/21/14 17:47	RTM	TAL SL

Client Sample ID: P-B-10_SUB

Lab Sample ID: 680-97124-14

Date Collected: 12/11/13 11:40

Matrix: Solid

Date Received: 12/14/13 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Thin_Layer			96736	01/08/14 10:52	MJS	TAL SL
Total/NA	Analysis	900.0		1	96771	01/08/14 19:51	RTM	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			94333	12/23/13 16:53	MJS	TAL SL
Total/NA	Analysis	901.1		1	98120	01/14/14 21:17	EMN	TAL SL
Total/NA	Leach	Dry and Grind			93478	12/19/13 15:33	DRO	TAL SL
Total/NA	Prep	DPS-0			94735	12/26/13 11:09	RLS	TAL SL
Total/NA	Analysis	904.0		1	99333	01/17/14 11:38	MLK	TAL SL
Total/NA	Prep	DPS-21			94731	12/26/13 10:52	RLS	TAL SL
Total/NA	Analysis	903.0		1	99967	01/20/14 19:39	MLK	TAL SL

Client Sample ID: RINSATE

Lab Sample ID: 680-97124-15

Date Collected: 12/13/13 12:00

Matrix: Water

Date Received: 12/14/13 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			93558	12/20/13 10:24	SMB	TAL SL
Total/NA	Analysis	8270D		1	96003	12/31/13 19:40	MAK	TAL SL
Total/NA	Prep	8290			31992	12/16/13 16:32	CCC	TAL SAC
Total/NA	Analysis	8290A		1	33676	01/10/14 04:39	JRB	TAL SAC
Total/NA	Prep	HRMS-Sep			33192	01/04/14 11:43	CCC	TAL SAC
Total/NA	Analysis	1668C		1	35731	02/06/14 16:29	KSS	TAL SAC
Total/NA	Prep	3010A			96024	01/03/14 17:29	KLE	TAL SL
Total/NA	Analysis	6020A		1	96993	01/09/14 00:59	CCB	TAL SL
Total/NA	Prep	3010A			96025	01/03/14 17:29	KLE	TAL SL
Total/NA	Analysis	6010C		1	97021	01/08/14 13:55	KLE	TAL SL
Total/NA	Prep	7470A			96983	01/09/14 07:42	MTS	TAL SL
Total/NA	Analysis	7470A		1	97053	01/09/14 12:53	MTS	TAL SL
Total/NA	Analysis	300.0		1	92246	12/14/13 18:07	AMF	TAL SL
Total/NA	Analysis	300.0		1	94529	12/16/13 13:07	AMF	TAL SL
Total/NA	Prep	ExtChrom			100386	01/22/14 08:57	SCB	TAL SL
Total/NA	Analysis	A-01-R		1	100928	01/23/14 22:10	LES	TAL SL
Total/NA	Prep	Evaporation			100320	01/21/14 11:29	BLH	TAL SL
Total/NA	Analysis	900.0		1	101294	01/27/14 08:09	MLK	TAL SL
Total/NA	Prep	PrecSep-21			92276	12/16/13 14:09	LEM	TAL SL
Total/NA	Analysis	903.0		1	96771	01/08/14 16:17	RTM	TAL SL
Total/NA	Prep	PrecSep_0			92278	12/16/13 14:14	LEM	TAL SL
Total/NA	Analysis	904.0		1	96777	01/08/14 12:18	RTM	TAL SL
Total/NA	Prep	ExtChrom			97007	01/09/14 09:41	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	98997	01/16/14 23:39	LES	TAL SL
Total/NA	Prep	Fill_Geo-21			95042	12/27/13 14:10	MJS	TAL SL
Total/NA	Analysis	901.1		1	99419	01/17/14 10:43	SMP	TAL SL

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-97124
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:	Analysis Requested		
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 88011884			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify), Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (GCG) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668 (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	J	F	N	N		
PP-B-1	0-4	12/12/13	0-4		0835	C	S		1	1	2			1								5	
PP-B-1	11-13		11-13		0920	C	S		1	1	2			1								5	
PP-B-2	0-4		0-4		1020	C	S		1	1	2			1								5	
PP-B-2	7-15		7-15		1100	C	S		1	1	2			1								5	
FM-B-1	0-2		0-2		1200	C	S		1	1	2			1								5	
FM-B-1	2-4		2-4		1215	C	S		1	1	2			1								5	
FM-B-1	13-15		13-15		1250	C	S		1	1	2			1								5	
FM-B-2	0-2		0-2		1340	C	S		1	1	2			1								5	
FM-B-2	2-4		2-4		1355	C	S		1	1	2			1								5	
FM-B-2	13-15		13-15		1445	C	S		1	1	2			1								5	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client, Disposal By Lab, Archive Until GEI releases for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners list.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		12/12/13 1600	GEI		12/12/13 1620	GEI
2		12/13/13 1530	GEI		12/13/13 1330	TM
3		12/13/13 [illegible]	TM		12/14/13 1200	TM

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 580-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680 - 97124
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	200, 6020, Total_Mass (Actions / Total Uranium)	901.1_Ra - (HOD) NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	J	F	N	N		
P-B-11_SS	12-11-13	0-0.5	Pond Areas	1215	C/G	S				1				1	1							3	
P-B-11_SUB	12-11-13	5-6	Pond Areas	1315	C/G	S				1				1								2	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI references for disposal.

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

Special Instructions/QC Requirements: VOCs were not composited prior to collection. ^ - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 12-12-13 1600	Company: GEI	Received by: J Shelkey	Date/Time: 12-13-13 1600 Company: GEI
Relinquished by:	Date/Time: 12-13-13 1350	Company: GEI	Received by:	Date/Time: 12-13-13 1350 Company: TA
Relinquished by:	Date/Time: 12/13/13 1620	Company:	Received by:	Date/Time: 12/14/13 1200 Company: TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-97124
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309	PO #: 1323080-11-2104			
Phone: 404.592.0074 (direct) / 770.355.9275 (cell)	WO #:			
Email: abrazell@geiconsultants.com	Project #: 68011684			
Project Name: TIMET	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_Total_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D PAHs	8770D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	J	F	N	N		
P-B-10_SS	12-11-13	0-0.5	Pond Areas	1010	C/G	S			1	1	2	1		1	1						^	7	
P-B-10_SUB	12-11-13	2-5	Pond Areas	1140	C/G	S			1	1	2			1								5	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

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

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

Special Instructions/QC Requirements: VOCs were not composited prior to extraction. ^ - Dioxins will be run from the PCB Congener jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by: RDK	Date/Time: 12-12-13 1600	Company: GEI	Received by: J Shelkey	Date/Time: 12-13-13 1600 Company: GEI
Relinquished by: J Shelkey	Date/Time: 12-13-13 1330	Company: GEI	Received by:	Date/Time: 12/13 1330 Company: TA
Relinquished by:	Date/Time: 12/13/13 1600	Company: TA	Received by: B	Date/Time: 12/14/13 1200 Company: TA

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51811-23157.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-97124
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	A01R_U - (MOD) Local Method (Radionuclides)	A01R_Th - Standard Target List (Radionuclides)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	904.0 - Standard Target List (Radionuclides)	903.0 - Standard Target List (Radionuclides)	300 - (MOD) Local Method (Anions)	6010C, 6020A, 7470A (Metals)	900.0 - Standard Target List (Radionuclides)	8260C - OLM 4.2 (VOCs)	1668C (PCB Congeners)	8082A (PCB Aroclors)	8270D SVOCs (Project list to include PAHs)	8290 (Dioxins)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D	D	D	N	D	D	A	N	N	N	N		
			G	Water	N	N	1	1	1	1	1	1	1	1	3	2	1	2	2	18	
RINSATE	12/13/13	1200	G	water			1	1	1	1	1	1	1	1		2		2		12	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return To Client ☐ Disposal By Lab ☐ Archive ■ Until GEI releases for disposal.

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Jeffrey Shelkey	12/13/13 1350	GEI		12/13/13 1350	TA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		12/13/13 1400	TA		12/14/13 1200	TA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

2/10/2014

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-97124-1

Login Number: 97124

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

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

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-97124-1

Login Number: 97124
List Number: 1
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento
List Creation: 12/14/13 12:46 PM

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.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-97124-1

Login Number: 97124
List Number: 1
Creator: Daniels, Brian J

List Source: TestAmerica St. Louis
List Creation: 12/14/13 01:54 PM

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2,2.8,3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-15
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	06-30-14
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	04-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	03-31-14
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14 *
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia DEP	State Program	3	94	06-30-14
West Virginia DHHR	State Program	3	9950C	12-31-13 *
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

Laboratory: TestAmerica Sacramento

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

* Expired certification is currently pending renewal and is considered valid.

Laboratory: TestAmerica Sacramento (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	03-31-14
Alaska (UST)	State Program	10	UST-055	02-28-14 *
Arizona	State Program	9	AZ0708	08-11-14
Arkansas DEQ	State Program	6	88-0691	06-17-14
California	State Program	9	2897	01-31-15
Colorado	State Program	8	N/A	08-31-14
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-14
Guam	State Program	9	N/A	08-31-14
Hawaii	State Program	9	N/A	01-29-15
Illinois	NELAP	5	200060	03-17-15
Kansas	NELAP	7	E-10375	10-31-14
Louisiana	NELAP	6	30612	06-30-14
Michigan	State Program	5	9947	02-28-14 *
Nebraska	State Program	7	NE-OS-22-13	02-28-14 *
Nevada	State Program	9	CA44	07-31-14
New Jersey	NELAP	2	CA005	06-30-14
New York	NELAP	2	11666	03-31-14
Northern Mariana Islands	State Program	9	MP0007	02-28-14 *
Oregon	NELAP	10	CA200005	01-29-15
Pennsylvania	NELAP	3	68-01272	03-31-14
South Carolina	State Program	4	87014	06-30-14
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-14
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	02-28-15
Washington	State Program	10	C581	05-05-14
West Virginia DHHR	State Program	3	9930C	12-31-14
Wyoming	State Program	8	8TMS-Q	02-28-14 *

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-14
California	NELAP	9	09266CA	03-31-14
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-14
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14
Kentucky (DW)	State Program	4	90125	12-31-14
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	LA140007	12-31-14
Maryland	State Program	3	310	09-30-14
Missouri	State Program	7	780	06-30-14
Nevada	State Program	9	MO000542013-1	07-31-14
New Jersey	NELAP	2	MO002	06-30-14
New Mexico	State Program	6		06-30-10 *

* Expired certification is currently pending renewal and is considered valid.

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11616	04-01-14
North Dakota	State Program	8	R207	06-30-14
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	2013-049	08-31-14
Pennsylvania	NELAP	3	68-00540	02-28-14
South Carolina	State Program	4	85002001	06-30-14
Texas	NELAP	6	T104704193-13-6	07-31-14
USDA	Federal		P330-07-00122	01-09-17
USEPA Reg V SDWA	Federal	1	WG-15J	08-30-14
Utah	NELAP	8	MO000542013-5	07-31-14
Virginia	NELAP	3	2236	06-14-14
Washington	State Program	10	C592	08-30-14
West Virginia DEP	State Program	3	381	02-28-14 *

* Expired certification is currently pending renewal and is considered valid.

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-97124-1	PP-B-1 0-4	92.9
680-97124-1 DU	PP-B-1 0-4	93.2
680-97124-2	PP-B-1 11-13	91.7
680-97124-3	PP-B-2 0-4	100
680-97124-4	PP-B-2 7-15	96.5
680-97124-5	FM-B-1 0-2	94.1
680-97124-6	FM-B-1 2-4	88.2
680-97124-7	FM-B-1 13-15	97.3
680-97124-8	FM-B-2 0-2	98.8
680-97124-9	FM-B-2 2-4	96.2
680-97124-10	FM-B-2 13-15	91.2
680-97124-13	P-B-10_SS	92.3
680-97124-14	P-B-10_SUB	90.6
LCS 160-94731/2-A	Lab Control Sample	87.9
MB 160-94731/1-A	Method Blank	97.6

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Total Alpha-Emitting Radium Isotopes by GFPC

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
680-97124-15	RINSATE	101
LCS 160-92276/2-A	Lab Control Sample	96.5
MB 160-92276/1-A	Method Blank	106

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-97124-1	PP-B-1 0-4	92.7	88.2
680-97124-1 DU	PP-B-1 0-4	92.9	93.1
680-97124-2	PP-B-1 11-13	91.2	89.7
680-97124-3	PP-B-2 0-4	99.5	89.3
680-97124-4	PP-B-2 7-15	96.0	86.0
680-97124-5	FM-B-1 0-2	93.7	86.7
680-97124-6	FM-B-1 2-4	87.8	89.0
680-97124-7	FM-B-1 13-15	97.0	88.2
680-97124-8	FM-B-2 0-2	98.4	88.2
680-97124-9	FM-B-2 2-4	95.5	87.1
680-97124-10	FM-B-2 13-15	90.7	89.0
680-97124-13	P-B-10_SS	91.9	89.3

Method: 904.0 - Radium-228 (GFPC) (Continued)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-97124-14	P-B-10_SUB	90.0	94.6
LCS 160-94735/2-A	Lab Control Sample	87.9	88.2
MB 160-94735/1-A	Method Blank	97.6	90.8

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-97124-15	RINSATE	101	89.0
LCS 160-92278/2-A	Lab Control Sample	96.5	89.3
MB 160-92278/1-A	Method Blank	106	90.5

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
		Th-229
Lab Sample ID	Client Sample ID	(30-110)
680-97124-1	PP-B-1 0-4	71.3
680-97124-1 DU	PP-B-1 0-4	69.2
680-97124-2	PP-B-1 11-13	83.0
680-97124-3	PP-B-2 0-4	83.8
680-97124-4	PP-B-2 7-15	78.0
680-97124-5	FM-B-1 0-2	73.0
680-97124-6	FM-B-1 2-4	84.7
680-97124-7	FM-B-1 13-15	80.8
680-97124-8	FM-B-2 0-2	85.7
680-97124-9	FM-B-2 2-4	82.5
680-97124-10	FM-B-2 13-15	78.0
680-97124-13	P-B-10_SS	83.1
680-97124-14	P-B-10_SUB	75.2
LCS 160-98058/2-A	Lab Control Sample	85.3
MB 160-98058/1-A	Method Blank	82.7

Tracer/Carrier Legend

Th-229 = Thorium-229

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Th-229 (30-110)
680-97124-15	RINSATE	77.5
LCS 160-100386/2-A	Lab Control Sample	76.3
LCSD 160-100386/3-A	Lab Control Sample Dup	77.7
MB 160-100386/1-A	Method Blank	83.1

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	U-232 (30-110)
680-97124-1	PP-B-1 0-4	81.4
680-97124-1 DU	PP-B-1 0-4	82.0
680-97124-2	PP-B-1 11-13	81.1
680-97124-3	PP-B-2 0-4	76.2
680-97124-4	PP-B-2 7-15	80.6
680-97124-5	FM-B-1 0-2	47.1
680-97124-6	FM-B-1 2-4	80.0
680-97124-7	FM-B-1 13-15	83.2
680-97124-8	FM-B-2 0-2	73.2
680-97124-9	FM-B-2 2-4	86.0
680-97124-10	FM-B-2 13-15	80.7
680-97124-13	P-B-10_SS	84.5
680-97124-14	P-B-10_SUB	69.3
LCS 160-98133/2-A	Lab Control Sample	83.2
MB 160-98133/1-A	Method Blank	78.1

Tracer/Carrier Legend

U-232 = Uranium-232

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

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

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	U-232 (30-110)
680-97124-15	RINSATE	82.9
LCS 160-97007/2-A	Lab Control Sample	70.2
LCSD 160-97007/3-A	Lab Control Sample Dup	10.8 X
MB 160-97007/1-A	Method Blank	85.8

Tracer/Carrier Legend

U-232 = Uranium-232

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: P-B-11_SS — Lab Sample ID: 680-97124-11

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		91	TEQ
Total TEQ					pg/g		91	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**820**	**G**	89	89	pg/g	0.0001	**0.082**	1668C
PCB-81	93	U G	93	93	pg/g	0.0003	0.00	1668C
PCB-105	**28000**	**E G**	710	710	pg/g	0.00003	**0.84**	1668C
PCB-114	**940**	**G**	730	730	pg/g	0.00003	**0.028**	1668C
PCB-118	**51000**	**E G**	670	670	pg/g	0.00003	**1.5**	1668C
PCB-123	**850**	**G**	690	690	pg/g	0.00003	**0.026**	1668C
PCB-126	**880**	**G**	840	840	pg/g	0.1	**88**	1668C
PCB-156/157	**10000**	**E G**	130	130	pg/g	0.00003	**0.30**	1668C
PCB-167	**3300**	**G**	97	97	pg/g	0.00003	**0.099**	1668C
PCB-169	120	U G	120	120	pg/g	0.03	0.00	1668C
PCB-189	**790**	**G**	18	18	pg/g	0.00003	**0.024**	1668C

Client Sample ID: P-B-10_SS — Lab Sample ID: 680-97124-13

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
Total PCB TEQ					pg/g		29	TEQ
Total TEQ					pg/g		500	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	**350**	**G**	68	68	pg/g	0.0001	**0.035**	1668C
PCB-81	66	U G	66	66	pg/g	0.0003	0.00	1668C
PCB-105	**6800**	**G**	210	210	pg/g	0.00003	**0.20**	1668C
PCB-114	**380**	**G**	200	200	pg/g	0.00003	**0.011**	1668C
PCB-118	**15000**	**G**	190	190	pg/g	0.00003	**0.45**	1668C
PCB-123	**220**	**G**	200	200	pg/g	0.00003	**0.0066**	1668C
PCB-126	**280**	**G**	230	230	pg/g	0.1	**28**	1668C
PCB-156/157	**2700**	**G**	48	48	pg/g	0.00003	**0.081**	1668C
PCB-167	**920**	**G**	38	38	pg/g	0.00003	**0.028**	1668C
PCB-169	42	U G	42	42	pg/g	0.03	0.00	1668C
PCB-189	**380**		21	7.0	pg/g	0.00003	**0.011**	1668C
2,3,7,8-TCDD	**10**	**J q H**	11	2.8	pg/g	1	**10**	8290A
1,2,3,7,8-PeCDD	**43**	**J H**	53	7.0	pg/g	1	**43**	8290A
1,2,3,7,8-PeCDF	**480**	**H**	53	28	pg/g	0.03	**14**	8290A
2,3,4,7,8-PeCDF	**260**	**H**	53	31	pg/g	0.3	**78**	8290A
1,2,3,4,7,8-HxCDD	**30**	**J q H**	53	3.2	pg/g	0.1	**3.0**	8290A
1,2,3,6,7,8-HxCDD	**73**	**H**	53	3.1	pg/g	0.1	**7.3**	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Client Sample ID: P-B-10_SS (Continued)

Lab Sample ID: 680-97124-13

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
1,2,3,7,8,9-HxCDD	57	H	53	2.9	pg/g	0.1	5.7	8290A
1,2,3,4,7,8-HxCDF	1300	H	53	50	pg/g	0.1	130	8290A
1,2,3,6,7,8-HxCDF	720	H	53	46	pg/g	0.1	72	8290A
1,2,3,7,8,9-HxCDF	100	G H	55	55	pg/g	0.1	10	8290A
2,3,4,6,7,8-HxCDF	170	H	53	50	pg/g	0.1	17	8290A
1,2,3,4,6,7,8-HpCDD	250	H	53	2.4	pg/g	0.01	2.5	8290A
1,2,3,4,6,7,8-HpCDF	3300	H	53	49	pg/g	0.01	33	8290A
1,2,3,4,7,8,9-HpCDF	1200	G H	61	61	pg/g	0.01	12	8290A
OCDD	380	H	110	2.9	pg/g	0.0003	0.11	8290A
OCDF	25000	H	110	29	pg/g	0.0003	7.5	8290A
2,3,7,8-TCDF - RA	280	H	11	4.8	pg/g	0.1	28	8290A

Client Sample ID: RINSATE

Lab Sample ID: 680-97124-15

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	WHO 2005 ND = 0 TEQ	Method
PCB-77	3.3	U	20	3.3	pg/L	0.0001	0.00	1668C
PCB-81	3.2	U	20	3.2	pg/L	0.0003	0.00	1668C
PCB-105	4.9	J B q	20	3.3	pg/L	0.00003	0.00015	1668C
PCB-114	3.1	U	20	3.1	pg/L	0.00003	0.00	1668C
PCB-118	10	J B	20	2.8	pg/L	0.00003	0.00030	1668C
PCB-123	2.9	U	20	2.9	pg/L	0.00003	0.00	1668C
PCB-126	3.7	U	20	3.7	pg/L	0.1	0.00	1668C
PCB-156/157	3.1	U	40	3.1	pg/L	0.00003	0.00	1668C
PCB-167	2.4	U	20	2.4	pg/L	0.00003	0.00	1668C
PCB-169	2.9	U	20	2.9	pg/L	0.03	0.00	1668C
PCB-189	2.8	U	20	2.8	pg/L	0.00003	0.00	1668C
2,3,7,8-TCDD	0.15	U	10	0.15	pg/L	1	0.00	8290A
2,3,7,8-TCDF	0.28	J B	10	0.092	pg/L	0.1	0.028	8290A
1,2,3,7,8-PeCDD	0.19	U	50	0.19	pg/L	1	0.00	8290A
1,2,3,7,8-PeCDF	0.14	U	50	0.14	pg/L	0.03	0.00	8290A
2,3,4,7,8-PeCDF	0.15	U	50	0.15	pg/L	0.3	0.00	8290A
1,2,3,4,7,8-HxCDD	0.13	U	50	0.13	pg/L	0.1	0.00	8290A
1,2,3,6,7,8-HxCDD	0.12	U	50	0.12	pg/L	0.1	0.00	8290A
1,2,3,7,8,9-HxCDD	0.11	U	50	0.11	pg/L	0.1	0.00	8290A
1,2,3,4,7,8-HxCDF	0.60	J q B	50	0.11	pg/L	0.1	0.060	8290A
1,2,3,6,7,8-HxCDF	0.27	U	50	0.27	pg/L	0.1	0.00	8290A
1,2,3,7,8,9-HxCDF	0.12	U	50	0.12	pg/L	0.1	0.00	8290A
2,3,4,6,7,8-HxCDF	0.11	U	50	0.11	pg/L	0.1	0.00	8290A
1,2,3,4,6,7,8-HpCDD	0.89	J q B	50	0.16	pg/L	0.01	0.0089	8290A
1,2,3,4,6,7,8-HpCDF	1.4	J q B	50	0.13	pg/L	0.01	0.014	8290A
1,2,3,4,7,8,9-HpCDF	0.15	U	50	0.15	pg/L	0.01	0.00	8290A
OCDD	8.3	J B	100	0.20	pg/L	0.0003	0.0025	8290A
OCDF	2.6	J q B	100	0.18	pg/L	0.0003	0.00078	8290A

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-4L (5-145)	PCB-15L (5-145)	PCB-123L (10-145)	PCB-114L (10-145)	PCB-202L (10-145)	PCB-3L (5-145)	PCB-118L (10-145)	PCB-126L (10-145)
680-97124-11	P-B-11_SS	28	28	18	17	14	33	18	19
680-97124-13	P-B-10_SS	50	68	85	85	91	53	87	93
MB 320-34244/1-A	Method Blank	67	94	108	107	101	78	110	114
MB 320-34661/1-A	Method Blank	37	33	30	28	33	42	29	32

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-206L (10-145)	PCB-169L (10-145)	PCB-37L (5-145)	PCB-19L (5-145)	PCB-188L (10-145)	PCB-54L (5-145)	CB-156L/15 (10-145)	PCB-167L (10-145)
680-97124-11	P-B-11_SS	14	18	22	29	14	20	17	17
680-97124-13	P-B-10_SS	94	98	67	66	80	54	86	85
MB 320-34244/1-A	Method Blank	130	127	103	86	91	77	119	112
MB 320-34661/1-A	Method Blank	36	32	26	39	29	27	29	30

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB-209L (10-145)	PCB-189L (10-145)	PCB-105L (10-145)	PCB-208L (10-145)	PCB-1L (5-145)	PCB-104L (10-145)	PCB-81L (10-145)	PCB-77L (10-145)
680-97124-11	P-B-11_SS	15	14	19	15	32	16	20	21
680-97124-13	P-B-10_SS	90	85	89	97	43	63	81	82
MB 320-34244/1-A	Method Blank	128	114	108	117	60	83	105	111
MB 320-34661/1-A	Method Blank	35	32	29	37	39	26	29	29

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	PCB-205L (10-145)	PCB-155L (10-145)
680-97124-11	P-B-11_SS	14	15
680-97124-13	P-B-10_SS	92	63
MB 320-34244/1-A	Method Blank	124	92
MB 320-34661/1-A	Method Blank	35	24

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-202L = PCB-202L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-206L = PCB-206L
PCB-169L = PCB-169L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L

PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-34244/2-A	Lab Control Sample	49	59	51	50	56	52	57	50
LCS 320-34661/2-A	Lab Control Sample	51	66	71	71	53	70	76	74

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-34244/2-A	Lab Control Sample	64	62	53	57	45	46	58	56
LCS 320-34661/2-A	Lab Control Sample	84	83	63	63	66	49	73	72

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-34244/2-A	Lab Control Sample	64	57	54	58	47	42	53	53
LCS 320-34661/2-A	Lab Control Sample	81	70	72	82	44	56	70	73

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)
LCS 320-34244/2-A	Lab Control Sample	63	45
LCS 320-34661/2-A	Lab Control Sample	78	56

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L

PCB-155L = PCB-155L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-1L	PCB-3L	PCB-4L	PCB-15L	PCB-19L	PCB-37L	PCB-54L	PCB-77L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(10-145)
680-97124-15	RINSATE	47	57	50	75	64	78	55	85
MB 320-33192/1-A	Method Blank	51	60	56	73	61	70	55	79

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-81L	PCB-104L	PCB-105L	PCB-114L	PCB-118L	PCB-123L	PCB-126L	PCB-155L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)
680-97124-15	RINSATE	85	52	80	77	80	79	82	61
MB 320-33192/1-A	Method Blank	76	59	75	75	77	75	77	62

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		CB-156L/15	PCB-167L	PCB-169L	PCB-188L	PCB-189L	PCB-202L	PCB-205L	PCB-206L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)
680-97124-15	RINSATE	87	85	89	70	80	79	88	91
MB 320-33192/1-A	Method Blank	84	83	83	65	80	77	88	89

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-208L	PCB-209L						
Lab Sample ID	Client Sample ID	(10-145)	(10-145)						
680-97124-15	RINSATE	89	96						
MB 320-33192/1-A	Method Blank	87	86						

Surrogate Legend

PCB-1L = PCB-1L
PCB-3L = PCB-3L
PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-19L = PCB-19L
PCB-37L = PCB-37L
PCB-54L = PCB-54L
PCB-77L = PCB-77L
PCB-81L = PCB-81L
PCB-104L = PCB-104L
PCB-105L = PCB-105L
PCB-114L = PCB-114L
PCB-118L = PCB-118L
PCB-123L = PCB-123L
PCB-126L = PCB-126L
PCB-155L = PCB-155L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-169L = PCB-169L
PCB-188L = PCB-188L
PCB-189L = PCB-189L
PCB-202L = PCB-202L
PCB-205L = PCB-205L
PCB-206L = PCB-206L
PCB-208L = PCB-208L
PCB-209L = PCB-209L

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-97124-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-33192/2-A	Lab Control Sample	44	58	67	68	48	67	69	74

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-33192/2-A	Lab Control Sample	79	88	60	48	63	44	80	78

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-33192/2-A	Lab Control Sample	86	78	69	85	39	52	68	68

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)
LCS 320-33192/2-A	Lab Control Sample	87	59

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		HxCDD2	TCDD	PeCDD	HpCDF1	PeCDF1	TCDF	HpCDD	OCDD
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
680-97124-13	P-B-10_SS	102	95	93	108	92		115	120

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDD2 (40-135)	TCDD (40-135)	PeCDD (40-135)	HpCDF1 (40-135)	PeCDF1 (40-135)	TCDF (40-135)	HpCDD (40-135)	OCDD (40-135)
680-97124-13 - RA	P-B-10_SS						94		
LCS 320-34660/2-A	Lab Control Sample	105	96	93	104	91	94	110	115
MB 320-34660/1-A	Method Blank	34 *	32 *	28 *	31 *	29 *	31 *	34 *	36 *

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	HxCDF1 (40-135)
680-97124-13	P-B-10_SS	92
680-97124-13 - RA	P-B-10_SS	
LCS 320-34660/2-A	Lab Control Sample	91
MB 320-34660/1-A	Method Blank	28 *

Surrogate Legend

HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
TCDF = 13C-2,3,7,8-TCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF1 (40-135)	HxCDD2 (40-135)	HxCDF1 (40-135)	HpCDD (40-135)	HpCDF1 (40-135)
680-97124-15	RINSATE	85	86	86	86	91	86	90	91
LCS 320-31992/2-A	Lab Control Sample	86	88	89	89	91	87	90	91
MB 320-31992/1-A	Method Blank	85	88	87	87	93	88	86	88

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OCDD (40-135)
680-97124-15	RINSATE	87
LCS 320-31992/2-A	Lab Control Sample	93
MB 320-31992/1-A	Method Blank	87

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
OCDD = 13C-OCDD

Appendix B

Soil Boring Logs

GEI Consultants, Inc.
1070 Wigwam Parkway
Suite 130
Henderson, NV 89074

CLIENT:	Titanium Metals Corporation
PROJECT NAME:	Conceptual Site Model
CITY/STATE:	Henderson, Nevada
GEI PROJECT NUMBER:	1323080

BORING LOG

PAGE 1 of 1

DD-B-4

GROUND SURFACE ELEVATION (FT):	1763.26	LOCATION:	181 North Water St, Henderson, NV 89015
NORTHING:	26719675	EASTING:	830322
TOTAL DEPTH (FT):	16.00		
DRILLED BY:	Cascade / M. Lester	DATUM VERT. / HORZ.:	NAVD 88 / NCS83
LOGGED BY:	J. Pieretti	DATE START / END:	12/2/2013 - 12/2/2013

DRILLING DETAILS: Hollow Stem Auger/ CME-75/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.

WATER LEVEL: Groundwater not encountered.

GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	SS	2.0	15	NA	0.0		Env. Sample ID= DD-B-4 0-0.5' RAD= BG mR/hr	(0'- 0.7') SANDY SILT (ML); ~70% fines, ~30% sand; dry, dark brown. (0.7'- 6') SILTY SAND WITH GRAVEL (SM); ~65% sand, ~20% gravel, subrounded, ~15% fines; dry, light brown, trace black material intermixed with soils 5.9-6' bgs.
		SS	2.0	13	NA	0.0			
1760		SS	2.0	17	NA	0.0			
	5							RAD= BG mR/hr	
		SS	2.0	12	NA	0.0		Env. Sample ID= DD-B-4 5.5-10'	(6'- 16') SILTY SAND WITH GRAVEL (SM); ~70% sand, ~15% gravel, subrounded, ~15% fines; dry, light brown.
1755		SS	2.0	14	NA	0.0		RAD= BG mR/hr	
	10	SS	2.0	11	NA	0.0			
		SS	2.0	13	NA	0.0			
1750								RAD= BG mR/hr	
		SS	2.0	9	NA	0.0			
	15								Bottom of borehole at 16.0 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
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PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
SS = SPLIT-SPOON SAMPLE

NR = NOT RECORDED
ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
BG = BACKGROUND
mR/hr = MILLIREM PER HOUR

RAD = RADIATION MEASUREMENT SAMPLES SCREENED FOR RADIATION WITH LUDLUM ALPHA-BETA-GAMMA PROBE.

ENVIRONMENTAL BORING LOG HENDERSON LOGS -05-02-14.GPJ GEI CONSULTANTS.GDT 5/8/14

GEI Consultants, Inc.
1070 Wigwam Parkway
Suite 130
Henderson, NV 89074

CLIENT:	Titanium Metals Corporation
PROJECT NAME:	Conceptual Site Model
CITY/STATE:	Henderson, Nevada
GEI PROJECT NUMBER:	1323080

BORING LOG

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DD-B-5

GROUND SURFACE ELEVATION (FT):	1762.92	LOCATION:	181 North Water St, Henderson, NV 89015
NORTHING:	26719688	EASTING:	830484
TOTAL DEPTH (FT):	30.00		
DRILLED BY:	Cascade / D. Mitchell	DATUM VERT. / HORZ.:	NAVD 88 / NCS83
LOGGED BY:	J. Pieretti	DATE START / END:	11/13/2013 - 11/13/2013

DRILLING DETAILS: Hollow Stem Auger/ CME-85/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.

WATER LEVEL: Groundwater not encountered.

GENERAL NOTE: Soils composited 0-30' for waste characterization. VOC collected from 15.5-16'. Sample ID: DD-B-5 Waste Class

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	SS	2.0	17	NA	0.0		Env. Sample ID= DD-B-5 0-0.5' RAD= BG mR/hr	(0'- 0.2') SILT (ML); ~90% fines, ~10% sand; dry, grayish brown. (0.2'- 2') SILTY SAND (SM); ~80% sand, ~15% fines, ~5% gravel, subangular; dry, light brown.
		SS	2.0	14	NA	0.0			(2'- 10') SILTY SAND WITH GRAVEL (SM); ~70% sand, ~15% gravel, subangular, ~15% fines; dry, light brown.
1760		SS	2.0	12	NA	0.0			
	5							RAD= BG mR/hr	
		SS	2.0	10	NA	0.0			
1755		SS	2.0	12	NA	0.0			
								RAD= BG mR/hr	
	10	SS	2.0	14	NA	0.0		Env. Sample ID= DD-B-5 9-14'	(10'- 30') SANDY SILT WITH GRAVEL (ML); ~50% fines, ~35% sand, ~15% gravel, subrounded; dry, light brown.
		SS	2.0	10	NA	0.0			
1750								RAD= BG mR/hr	
		SS	2.0	12	NA	0.0			
	15								
		SS	2.0	8	NA	0.0		RAD= BG mR/hr	
1745		SS	2.0	8	NA	0.0			
	20	SS	2.0	17	NA	0.0		RAD= BG mR/hr	

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SS = SPLIT-SPOON SAMPLE

NR = NOT RECORDED
ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
BG = BACKGROUND
mR/hr = MILLIREM PER HOUR

RAD = RADIATION MEASUREMENT SAMPLES SCREENED FOR RADIATION WITH LUDLUM ALPHA-BETA-GAMMA PROBE.

ENVIRONMENTAL BORING LOG HENDERSON LOGS -05-02-14.GPJ GEI CONSULTANTS.GDT 5/8/14

GEI Consultants

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CLIENT: Titanium Metals Corporation
PROJECT NAME: Conceptual Site Model
CITY/STATE: Henderson, Nevada
GEI PROJECT NUMBER: 1323080

BORING LOG

DD-B-5

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
		SS	2.0	14	NA	0.0			
1740									
		SS	2.0	14	NA	0.0			
	25							RAD= BG mR/hr	
		SS	2.0	13	NA	0.0			
1735		SS	2.0	17	NA	0.0			
								RAD= BG mR/hr	
	30								Bottom of borehole at 30.0 feet.

NOTES:

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SS = SPLIT-SPOON SAMPLE
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ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
BG = BACKGROUND
mR/hr = MILLIREM PER HOUR
RAD = RADIATION MEASUREMENT SAMPLES SCREENED FOR RADIATION WITH LUDLUM ALPHA-BETA-GAMMA PROBE.

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GEI PROJECT NUMBER: 1323080

BORING LOG

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DD-B-6

GROUND SURFACE ELEVATION (FT): 1766.3 **LOCATION:** 181 North Water St, Henderson, NV 89015
NORTHING: 26719599 **EASTING:** 830454 **TOTAL DEPTH (FT):** 16.00
DRILLED BY: Cascade / M. Lester **DATUM VERT. / HORZ.:** NAVD 88 / NCS83
LOGGED BY: J. Pieretti **DATE START / END:** 12/3/2013 - 12/3/2013
DRILLING DETAILS: Hollow Stem Auger/ CME-75/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.
WATER LEVEL: Groundwater not encountered.
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	SS	2.0	17	NA	0.0		Env. Sample ID= DD-B-6 0-0.5' RAD= BG mR/hr	(0'- 0.3') SANDY SILT (ML); ~70% fines, ~30% sand; damp, dark brown. (0.3'- 5') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% sand, ~20% gravel, subangular, ~10% fines; dry, reddish brown.
1765		SS	2.0	9	NA	0.0			
		SS	2.0	18	NA	0.0		RAD= BG mR/hr	(5'- 5.1') WIDELY GRADED GRAVEL (GW); ~90% gravel, subangular, ~10% sand; dry, reddish brown. (5.1'- 10.1') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~55% sand, ~35% gravel, subangular, ~10% fines; dry, light brown.
	5								
1760		SS	2.0	17	NA	0.0			
		SS	2.0	16	NA	0.0		RAD= BG mR/hr	
	10	SS	2.0	16	NA	0.0			(10.1'- 10.4') SILT (ML); ~100% fines; dry, dark brown. (10.4'- 16') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~60% sand, ~30% gravel, subangular, ~10% fines; dry, reddish brown.
1755		SS	2.0	12	NA	0.0		Env. Sample ID= DD-B-6 10-15' RAD= BG mR/hr	
		SS	2.0	16	NA	0.0			
	15								Bottom of borehole at 16.0 feet.

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ppm = PARTS PER MILLION
IN. = INCHES
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mR/hr = MILLIREM PER HOUR
RAD = RADIATION MEASUREMENT SAMPLES SCREENED FOR RADIATION WITH LUDLUM ALPHA-BETA-GAMMA PROBE.

ENVIRONMENTAL BORING LOG HENDERSON LOGS -05-02-14.GPJ GEI CONSULTANTS.GDT 5/8/14

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Henderson, NV 89074

CLIENT: Titanium Metals Corporation
PROJECT NAME: Conceptual Site Model
CITY/STATE: Henderson, Nevada
GEI PROJECT NUMBER: 1323080

BORING LOG
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DD-B-7

GROUND SURFACE ELEVATION (FT): 1767.03 **LOCATION:** 181 North Water St, Henderson, NV 89015
NORTHING: 26719499 **EASTING:** 830402 **TOTAL DEPTH (FT):** 16.00
DRILLED BY: Cascade / M. Lester **DATUM VERT. / HORZ.:** NAVD 88 / NCS83
LOGGED BY: J. Pieretti **DATE START / END:** 12/6/2013 - 12/6/2013
DRILLING DETAILS: Hollow Stem Auger/ CME-75/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.
WATER LEVEL: Groundwater not encountered.
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	SS	2.0	24	NA	0.0		Env. Sample ID= DD-B-7 0-0.5' RAD= BG mR/hr	(0'- 0.75') SILTY SAND WITH GRAVEL (SM); ~65% sand, ~30% fines, ~5% gravel, subrounded; ~1% rock fragments, dry, dark brown. (0.75'- 10') SILTY SAND WITH GRAVEL (SM); ~60% sand, ~25% gravel, subangular, ~15% fines; dry, brown.
1765		SS	2.0	18	NA	0.0			
		SS	2.0	18	NA	0.0			
	5							RAD= BG mR/hr	
		SS	2.0	14	NA	0.0			
1760		SS	2.0	17	NA	0.0		RAD= BG mR/hr	
	10	SS	2.0	18	NA	0.0			(10'- 16') SILTY SAND WITH GRAVEL (SM); ~60% sand, ~25% gravel, subangular, ~15% fines; dry, light brown.
1755		SS	2.0	14	NA	0.0		Env. Sample ID= DD-B-7 10-15' RAD= BG mR/hr	
	15	SS	2.0	13	NA	0.0			

Bottom of borehole at 16.0 feet.

NOTES:

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ppm = PARTS PER MILLION
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CLIENT: Titanium Metals Corporation
PROJECT NAME: Conceptual Site Model
CITY/STATE: Henderson, Nevada
GEI PROJECT NUMBER: 1323080

BORING LOG
PAGE 1 of 1
DD-B-8

GROUND SURFACE ELEVATION (FT): 1767.98 **LOCATION:** 181 North Water St, Henderson, NV 89015
NORTHING: 26719561 **EASTING:** 830742 **TOTAL DEPTH (FT):** 16.00
DRILLED BY: Cascade / M. Lester **DATUM VERT. / HORZ.:** NAVD 88 / NCS83
LOGGED BY: J. Pieretti **DATE START / END:** 12/4/2013 - 12/4/2013
DRILLING DETAILS: Hollow Stem Auger/ CME-75/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.
WATER LEVEL: Groundwater not encountered.
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	SS	2.0	15	NA	0.0		Env. Sample ID= DD-B-8 0-0.5' RAD= BG mR/hr	(0'- 0.25') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% sand, ~10% gravel, subrounded, ~10% fines; dry, dark brown.
		SS	2.0	19	NA	0.0			(0.25'- 10.2') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% sand, ~20% gravel, subrounded, ~10% fines; dry, brown.
1765		SS	2.0	18	NA	0.0			
	5	SS	2.0	20	NA	0.0		RAD= BG mR/hr	
1760		SS	2.0	16	NA	0.0			
	10	SS	1.5	10	NA	0.0		RAD= BG mR/hr	(10.2'- 11.5') SILTY SAND WITH GRAVEL (SM); ~55% sand, ~30% fines, ~15% gravel, subangular; dry, light brown.
		SS	2.0	17	NA	0.0		Env. Sample ID= DD-B-8 10-15' RAD= BG mR/hr	(12'- 16') SILTY SAND WITH GRAVEL (SM); ~55% sand, ~30% fines, ~15% gravel, subangular; dry, light brown.
1755		SS	2.0	20	NA	0.0			
	15								Bottom of borehole at 16.0 feet.

NOTES:

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ppm = PARTS PER MILLION
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mR/hr = MILLIREM PER HOUR
RAD = RADIATION MEASUREMENT SAMPLES SCREENED FOR RADIATION WITH LUDLUM ALPHA-BETA-GAMMA PROBE.

ENVIRONMENTAL BORING LOG HENDERSON LOGS -05-02-14.GPJ GEI CONSULTANTS.GDT 5/8/14

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CLIENT: Titanium Metals Corporation
PROJECT NAME: Conceptual Site Model
CITY/STATE: Henderson, Nevada
GEI PROJECT NUMBER: 1323080

BORING LOG

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DD-B-9

GROUND SURFACE ELEVATION (FT): 1770.03 **LOCATION:** 181 North Water St, Henderson, NV 89015
NORTHING: 26719377 **EASTING:** 830522 **TOTAL DEPTH (FT):** 16.00
DRILLED BY: Cascade / M. Lester **DATUM VERT. / HORZ.:** NAVD 88 / NCS83
LOGGED BY: J. Pieretti **DATE START / END:** 12/3/2013 - 12/3/2013
DRILLING DETAILS: Hollow Stem Auger/ CME-75/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.
WATER LEVEL: Groundwater not encountered.
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	SS	2.0	12	NA	0.0		Env. Sample ID= DD-B-9 0-0.5' RAD= BG mR/hr	(0'- 0.9') SANDY SILT (ML); ~65% fines, ~30% sand, ~5% gravel, subangular; dry, dark brown. (0.9'- 16') SILTY SAND WITH GRAVEL (SM); ~65% sand, ~20% gravel, subrounded, ~15% fines; dry, light brown.
		SS	2.0	13	NA	0.0			
		SS	2.0	15	NA	0.0		RAD= BG mR/hr	
1765	5	SS	2.0	14	NA	0.0			
		SS	2.0	14	NA	0.0		RAD= BG mR/hr	
1760	10	SS	2.0	10	NA	0.0			
		SS	2.0	18	NA	0.0		Env. Sample ID= DD-B-9 10-15' RAD= BG mR/hr	
1755	15	SS	2.0	16	NA	0.0			

Bottom of borehole at 16.0 feet.

NOTES:

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SS = SPLIT-SPOON SAMPLE
NR = NOT RECORDED
ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
BG = BACKGROUND
mR/hr = MILLIREM PER HOUR
RAD = RADIATION MEASUREMENT SAMPLES SCREENED FOR RADIATION WITH LUDLUM ALPHA-BETA-GAMMA PROBE.

ENVIRONMENTAL BORING LOG HENDERSON LOGS -05-02-14.GPJ GEI CONSULTANTS.GDT 5/8/14

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GEI PROJECT NUMBER: 1323080

BORING LOG
PAGE 1 of 1
DD-B-10

GROUND SURFACE ELEVATION (FT): 1776.61 **LOCATION:** 181 North Water St, Henderson, NV 89015
NORTHING: 26719247 **EASTING:** 830972 **TOTAL DEPTH (FT):** 16.00
DRILLED BY: Cascade / M. Lester **DATUM VERT. / HORZ.:** NAVD 88 / NCS83
LOGGED BY: J. Pieretti **DATE START / END:** 12/4/2013 - 12/4/2013
DRILLING DETAILS: Hollow Stem Auger/ CME-75/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.
WATER LEVEL: Groundwater not encountered.
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	SS	2.0	11	NA	0.0		Env. Sample ID= DD-B-10 0-0.5' RAD= BG mR/hr	(0'- 2.25') SILTY SAND (SM); ~80% sand, ~15% fines, ~5% gravel, subrounded; dry, brown.
1775		SS	2.0	12	NA	0.0			(2.25'- 16') SILTY SAND WITH GRAVEL (SM); ~60% sand, ~20% gravel, subangular, ~15% fines; ~5% cobbles, dry, light brown.
		SS	2.0	21	NA	0.0		RAD= BG mR/hr	
	5	SS	2.0	12	NA	0.0			
1770		SS	2.0	18	NA	0.0		RAD= BG mR/hr	
	10	SS	2.0	17	NA	0.0			
1765		SS	2.0	18	NA	0.0		Env. Sample ID= DD-B-10 10-15' RAD= BG mR/hr	
	15	SS	2.0	17	NA	0.0			
									Bottom of borehole at 16.0 feet.

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ppm = PARTS PER MILLION
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ENVIRONMENTAL BORING LOG HENDERSON LOGS -05-02-14.GPJ GEI CONSULTANTS.GDT 5/8/14

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BORING LOG
PAGE 1 of 1
NE-B-1

GROUND SURFACE ELEVATION (FT): 1780.72 **LOCATION:** 181 North Water St, Henderson, NV 89015
NORTHING: 26719156 **EASTING:** 830664 **TOTAL DEPTH (FT):** 16.00
DRILLED BY: Cascade / D. Mitchell **DATUM VERT. / HORZ.:** NAVD 88 / NCS83
LOGGED BY: J. Pieretti **DATE START / END:** 11/22/2013 - 11/22/2013
DRILLING DETAILS: Hollow Stem Auger/ CME-85/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.
WATER LEVEL: Groundwater not encountered.
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
1780	0	SS	2.0	18	NA	0.0		Env. Sample ID= NE-B-1 0-0.5' RAD= BG mR/hr	(0'- 16') SILTY SAND WITH GRAVEL (SM); ~50% sand, ~30% fines, ~20% gravel, subrounded; dry, light brown.
		SS	2.0	20	NA	0.0			Coarse gravel at 3' bgs.
	5	SS	2.0	16	NA	0.0		RAD= BG mR/hr	
1775		SS	2.0	17	NA	0.0			
		SS	2.0	18	NA	0.0		RAD= BG mR/hr	Trace black gravel at 8.5' bgs.
	10	SS	2.0	18	NA	0.0			
1770		SS	2.0	19	NA	0.0		Env. Sample ID= NE-B-1 8.5-13.5' RAD= BG mR/hr	
		SS	2.0	19	NA	0.0			
	15								Bottom of borehole at 16.0 feet.
1765									

NOTES:

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ENVIRONMENTAL BORING LOG HENDERSON LOGS -05-02-14.GPJ GEI CONSULTANTS.GDT 5/8/14

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GEI PROJECT NUMBER: 1323080

BORING LOG

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NE-B-2

GROUND SURFACE ELEVATION (FT): 1782.65 **LOCATION:** 181 North Water St, Henderson, NV 89015
NORTHING: 26718944 **EASTING:** 830809 **TOTAL DEPTH (FT):** 16.00
DRILLED BY: Cascade / D. Mitchell **DATUM VERT. / HORZ.:** NAVD 88 / NCS83
LOGGED BY: J. Pieretti **DATE START / END:** 11/22/2013 - 11/22/2013
DRILLING DETAILS: Hollow Stem Auger/ CME-85/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.
WATER LEVEL: Groundwater not encountered.
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	SS	2.0	22	NA	0.0		Env. Sample ID= NE-B-2 0-0.5' RAD= BG mR/hr	(0'- 0.4') SILTY SAND WITH GRAVEL (SM); ~60% sand, ~25% gravel, subangular, ~15% fines; damp, brown. (0.4'- 16') SILTY SAND WITH GRAVEL (SM); ~60% sand, ~20% gravel, subangular, ~20% fines; dry, light brown.
1780		SS	2.0	10	NA	0.0			
		SS	2.0	23	NA	0.0		RAD= BG mR/hr	
	5	SS	2.0	18	NA	0.0			Coarse, subangular gravel at 6.3' and 7.8' bgs.
1775		SS	2.0	19	NA	0.0		RAD= BG mR/hr	
	10	SS	2.0	18	NA	0.0			
1770		SS	2.0	0	NA	0.0		Env. Sample ID= NE-B-2 10-15' RAD= BG mR/hr	Angular, fractured sandstone at 12' bgs.
	15	SS	2.0	18	NA	0.0			
									Bottom of borehole at 16.0 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
SS = SPLIT-SPOON SAMPLE
NR = NOT RECORDED
ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
BG = BACKGROUND
mR/hr = MILLIREM PER HOUR
RAD = RADIATION MEASUREMENT SAMPLES SCREENED FOR RADIATION WITH LUDLUM ALPHA-BETA-GAMMA PROBE.

ENVIRONMENTAL BORING LOG HENDERSON LOGS -05-02-14.GPJ GEI CONSULTANTS.GDT 5/8/14

GEI Consultants

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1070 Wigwam Parkway
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Henderson, NV 89074

CLIENT: Titanium Metals Corporation
PROJECT NAME: Conceptual Site Model
CITY/STATE: Henderson, Nevada
GEI PROJECT NUMBER: 1323080

BORING LOG
PAGE 1 of 1
NE-B-3

GROUND SURFACE ELEVATION (FT): 1787.04 **LOCATION:** 181 North Water St, Henderson, NV 89015
NORTHING: 26718766 **EASTING:** 830722 **TOTAL DEPTH (FT):** 16.00
DRILLED BY: Cascade / D. Mitchell **DATUM VERT. / HORZ.:** NAVD 88 / NCS83
LOGGED BY: J. Pieretti **DATE START / END:** 11/22/2013 - 11/22/2013
DRILLING DETAILS: Hollow Stem Auger/ CME-85/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.
WATER LEVEL: Groundwater not encountered.
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	SS	2.0	19	NA	0.0		Env. Sample ID= NE-B-3 0-0.5' RAD= BG mR/hr	(0'- 16') SILTY SAND WITH GRAVEL (SM); ~40% sand, ~30% gravel, subrounded, ~30% fines; dry, light brown.
1785		SS	2.0	18	NA	0.0			
		SS	2.0	24	NA	0.0			
	5							RAD= BG mR/hr	
		SS	2.0	19	NA	0.0			
1780		SS	2.0	22	NA	0.0			
								RAD= BG mR/hr	
	10	SS	2.0	10	NA	0.0			
1775		SS	2.0	17	NA	0.0		Env. Sample ID= NE-B-3 10-15' RAD= BG mR/hr	
		SS	2.0	18	NA	0.0			Loose, dark grey rock fragments/slag at 13.6' bgs.
	15								Bottom of borehole at 16.0 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
SS = SPLIT-SPOON SAMPLE
NR = NOT RECORDED
ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
BG = BACKGROUND
mR/hr = MILLIREM PER HOUR
RAD = RADIATION MEASUREMENT SAMPLES SCREENED FOR RADIATION WITH LUDLUM ALPHA-BETA-GAMMA PROBE.

ENVIRONMENTAL BORING LOG HENDERSON LOGS -05-02-14.GPJ GEI CONSULTANTS.GDT 5/8/14

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CITY/STATE: Henderson, Nevada
GEI PROJECT NUMBER: 1323080

BORING LOG

PAGE 1 of 1

NE-B-6

GROUND SURFACE ELEVATION (FT): 1780.27 **LOCATION:** 181 North Water St, Henderson, NV 89015
NORTHING: 26719161.09 **EASTING:** 830693.62 **TOTAL DEPTH (FT):** 16.00
DRILLED BY: Eagle Drilling / E. Luis **DATUM VERT. / HORZ.:** NAVD 88 / NCS83
LOGGED BY: T. Daigle **DATE START / END:** 3/20/2014 - 3/20/2014
DRILLING DETAILS: Hollow Stem Auger/ Mobile B-90/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.
WATER LEVEL: Groundwater not encountered.
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
1780	0	SS	2.0	20	3 7 9 9	0.0		Env. Sample ID= NE-B-6 0-0.5'	(0'- 2') SILTY SAND WITH GRAVEL (SM); ~70% sand, fine to medium, ~15% gravel, subangular, ~15% fines; damp to moist, brown.
		SS	2.0	22	7 7 11 10	0.0		RAD= BG mR/hr	(2'- 6') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to medium, ~25% gravel, subangular, ~5% fines; damp to moist, brown, medium stiff to loose. quartztite/chert cobbles in 4 to 6 ft interval.
1775	5	SS	2.0	19	6 9 7 5	0.0		Env. Sample ID= NE-B-6 5-6.5'	
		SS	2.0	23	7 8 12 14	0.0		RAD= BG mR/hr	(6'- 16') WIDELY GRADED SAND (SW); ~85% sand, fine to medium, ~10% gravel, subangular, ~5% fines; damp to moist, brown, some coarse sand, medium stiff to loose. Cementation and CaCO3 growth at ~8.5 to 9.5 ft. Cobble at 12.5 and 15 ft.
		SS	2.0	20	14 20 20 21	0.0		RAD= BG mR/hr	
1770	10	SS	2.0	23	14 16 17 13	0.0		Env. Sample ID= NE-B-6 10-11.5'	
		SS	2.0	22	8 12 11 10	0.0		RAD= BG mR/hr	
1765	15	SS	2.0	22	7 11 13 15	0.0			

Bottom of borehole at 16.0 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
SS = SPLIT-SPOON SAMPLE
NR = NOT RECORDED
ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
BG = BACKGROUND
mR/hr = MILLIREM PER HOUR
RAD = RADIATION MEASUREMENT SAMPLES SCREENED FOR RADIATION WITH LUDLUM ALPHA-BETA-GAMMA PROBE.

ENVIRONMENTAL BORING LOG HENDERSON LOGS -05-02-14.GPJ GEI CONSULTANTS.GDT 5/8/14

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CLIENT: Titanium Metals Corporation
PROJECT NAME: Conceptual Site Model
CITY/STATE: Henderson, Nevada
GEI PROJECT NUMBER: 1323080

BORING LOG
PAGE 1 of 1
NE-B-7

GROUND SURFACE ELEVATION (FT): 1784.33 **LOCATION:** 181 North Water St, Henderson, NV 89015
NORTHING: 26718848.07 **EASTING:** 830837.8 **TOTAL DEPTH (FT):** 16.00
DRILLED BY: Eagle Drilling / E. Luis **DATUM VERT. / HORZ.:** NAVD 88 / NCS83
LOGGED BY: T. Daigle **DATE START / END:** 3/20/2014 - 3/20/2014
DRILLING DETAILS: Hollow Stem Auger/ Mobile B-90/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.
WATER LEVEL: Groundwater not encountered.
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	SS	2.0	20	5 13 13 12	0.0		Env. Sample ID= NE-B-7 0-0.5'	(0'- 2') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to medium, ~15% gravel, subangular, ~10% fines; damp to moist, brown, some coarse sand. Medium stiff to loose.
		SS	2.0	19	7 8 6 6	0.0		RAD= BG mR/hr	(2'- 4') SILTY SAND (SM); ~75% sand, fine to medium, ~20% fines, ~5% gravel, fine; damp to moist, brown, large cobble @ 2.5 ft. Loose.
1780	5	SS	2.0	23	6 8 10 11	0.0		Env. Sample ID= NE-B-7 5-6.5'	(4'- 8') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to medium, ~15% gravel, subangular, ~10% fines; damp to moist, brown, some coarse sand. Medium stiff to loose.
		SS	2.0	22	6 6 5 4	0.0		RAD= BG mR/hr	
1775	10	SS	2.0	20	4 5 4 4	0.0		RAD= BG mR/hr	(8'- 16') SILTY SAND (SM); ~75% sand, fine to medium, ~20% fines, ~5% gravel, fine, subangular; damp to moist, brown, some coarse sand, loose. 10% gravel from 14 to 16 ft.
		SS	2.0	22	7 8 11 12	0.0		Env. Sample ID= NE-B-7 10-11.5'	
		SS	2.0	21	7 10 12 15	0.0		RAD= BG mR/hr	
1770	15	SS	2.0	20	10 15 12 14	0.0			

Bottom of borehole at 16.0 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
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PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
SS = SPLIT-SPOON SAMPLE
NR = NOT RECORDED
ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
BG = BACKGROUND
mR/hr = MILLIREM PER HOUR
RAD = RADIATION MEASUREMENT SAMPLES SCREENED FOR RADIATION WITH LUDLUM ALPHA-BETA-GAMMA PROBE.

ENVIRONMENTAL BORING LOG HENDERSON LOGS -05-02-14.GPJ GEI CONSULTANTS.GDT 5/8/14

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CLIENT: Titanium Metals Corporation
PROJECT NAME: Conceptual Site Model
CITY/STATE: Henderson, Nevada
GEI PROJECT NUMBER: 1323080

BORING LOG
PAGE 1 of 1
FM-B-1

GROUND SURFACE ELEVATION (FT): 1766.47 **LOCATION:** 181 North Water St, Henderson, NV 89015
NORTHING: 26719550 **EASTING:** 830500 **TOTAL DEPTH (FT):** 16.00
DRILLED BY: Eagle Drilling / E. Luis **DATUM VERT. / HORZ.:** NAVD 88 / NCS83
LOGGED BY: J. Pieretti **DATE START / END:** 12/12/2013 - 12/12/2013
DRILLING DETAILS: Hollow Stem Auger/ Diedrich D-50/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.
WATER LEVEL: Groundwater not encountered.
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
1765	0	SS	2.0	24	NA	0.0		Env. Sample ID= FM-B-1 0-2' RAD= BG mR/hr	(0'- 2') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, ~15% gravel, subangular, ~10% fines; damp, brown.
		SS	2.0	21	NA	0.0		Env. Sample ID= FM-B-1 2-4'	(2'- 4.7') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% sand, ~20% gravel, subrounded, ~10% fines; damp to dry, brown.
	5	SS	2.0	24	NA	0.0		RAD= BG mR/hr	(4.7'- 16') SILTY SAND (SM); ~65% sand, ~25% fines, ~10% gravel, subrounded; dry, yellowish brown.
1760		SS	2.0	24	NA	0.0			
		SS	2.0	22	NA	0.0		RAD= BG mR/hr	
	10	SS	2.0	22	NA	0.0			
1755		SS	2.0	22	NA	0.0		RAD= BG mR/hr	
		SS	2.0	18	NA	0.0		Env. Sample ID= FM-B-1 13-15'	Cobble in shoe.
	15								Bottom of borehole at 16.0 feet.

NOTES:

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PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
SS = SPLIT-SPOON SAMPLE
NR = NOT RECORDED
ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
BG = BACKGROUND
mR/hr = MILLIREM PER HOUR
RAD = RADIATION MEASUREMENT SAMPLES SCREENED FOR RADIATION WITH LUDLUM ALPHA-BETA-GAMMA PROBE.

ENVIRONMENTAL BORING LOG HENDERSON LOGS -05-02-14.GPJ GEI CONSULTANTS.GDT 5/8/14

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PROJECT NAME: Conceptual Site Model
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GEI PROJECT NUMBER: 1323080

BORING LOG
PAGE 1 of 1
FM-B-2

GROUND SURFACE ELEVATION (FT): 1769.06 **LOCATION:** 181 North Water St, Henderson, NV 89015
NORTHING: 26719448 **EASTING:** 830612 **TOTAL DEPTH (FT):** 16.00
DRILLED BY: Eagle Drilling / E. Luis **DATUM VERT. / HORZ.:** NAVD 88 / NCS83
LOGGED BY: J. Pieretti **DATE START / END:** 12/12/2013 - 12/12/2013
DRILLING DETAILS: Hollow Stem Auger/ Diedrich D-50/ Hammer: Automatic Hammer - 140 lbs/ Drop: 30 in./ Auger: 4.25 in. I.D./8 in. O.D.
WATER LEVEL: Groundwater not encountered.
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	SS	2.0	24	NA	0.0		Env. Sample ID= FM-B-2 0-2' RAD= BG mR/hr	(0'- 0.3') SILT (ML); ~100% fines; dry, very dark brown. (0.3'- 6') SILTY SAND WITH GRAVEL (SM); ~50% sand, ~30% gravel, ~20% fines; dry, light brown.
		SS	2.0	20	NA	0.0		Env. Sample ID= FM-B-2 2-4'	
1765		SS	2.0	19	NA	0.0		RAD= BG mR/hr	
	5	SS	2.0	24	NA	0.0			(6'- 16') SILTY SAND WITH GRAVEL (SM); ~65% sand, ~20% fines, ~15% gravel; dry, light brown, trace cobble.
		SS	2.0	24	NA	0.0		RAD= BG mR/hr	
1760		SS	2.0	24	NA	0.0			
	10	SS	2.0	24	NA	0.0		RAD= BG mR/hr	
1755		SS	2.0	16	NA	0.0		Env. Sample ID= FM-B-2 13-15'	
	15								Bottom of borehole at 16.0 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
SS = SPLIT-SPOON SAMPLE
NR = NOT RECORDED
ppm = PARTS PER MILLION
IN. = INCHES
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mR/hr = MILLIREM PER HOUR
RAD = RADIATION MEASUREMENT SAMPLES SCREENED FOR RADIATION WITH LUDLUM ALPHA-BETA-GAMMA PROBE.

ENVIRONMENTAL BORING LOG HENDERSON LOGS -05-02-14.GPJ GEI CONSULTANTS.GDT 5/8/14

Appendix C

TIMET Isoconcentration Contour Maps for Hexavalent Chromium and Perchlorate (2013-2014)

LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- MONITORING WELL , ABANDONED
- 100 — HEXAVALENT CHROMIUM CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 100 — HEXAVALENT CHROMIUM CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR HEXAVALENT CHROMIUM IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR HEXAVALENT CHROMIUM IS 100 ug/L.

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2014 ANNUAL GROUNDWATER MONITORING REPORT

HEXAVALENT CHROMIUM ISOCONCENTRATION MAP 2ND SEMESTER 2013

October 2014 Fig. 13

LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- MONITORING WELL, ABANDONED
- CONVERTED TO EXTRACTION WELL IN MARCH 2014
- 100 — HEXAVALENT CHROMIUM CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 100 — HEXAVALENT CHROMIUM CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR HEXAVALENT CHROMIUM IS THE NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR HEXAVALENT CHROMIUM IS 100 ug/L.

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2014 ANNUAL GROUNDWATER MONITORING REPORT

HEXAVALENT CHROMIUM ISOCONCENTRATION MAP 1ST SEMESTER 2014

October 2014 Fig. 14

DBMW-4
4.6
DBMW-5
5.5
DBMW-3
8.8 J
DBMW-1
7.8 J
AA-20
4.2
AA-19
PC-130
360 J
PC-127
250
PC-024
29
PC-124
7.8
50
10
200
1
0.5
AA-15
AA-11
PC-028
190
POD2-R
POD8
0.34 J
PC-066
230 J
PC-067
17 J
PC-064
220 J
PC-065
150 J
AA-09
7.3 J
PC-054
210
DM1
POU3
17 J
W Warm Springs Rd
TMPZ-105
41 J
TMPZ-106
TMPZ-107
2.2 J
TMPZ-108
2.6 J
AA-01
1.7
M-129
87 J
CLD1-R
CLD3-R
CLD2-R
M-130
96 J
CMT-101
1.5 J
TMPZ-109
0.59 J
TMPZ-110
1.8 J
AA-UW1
0.71 J
EWQal-12
0.97 J
J2D1-R2
1.5 J
J2D2-R2
0.66 J
J2D4
3.1 J
AA-27
0.23 J
TMPZ-111
0.19 J
N Boulder Hwy
CLD4-R
1.6 J
TIMETMW-4
0.14 J
TMPZ-112
0.12 J
J2U2
0.4 J
J2U1
TIMETMW-1
TIMETMW-5
0.45 J
TIMETMW-6R
1.2 J
CSMMW-2
CSMMW-1
N Water St
BRW-R1
0.26 J
TIMETMW-3R
0.54 J
TMMW-104
0.0053 J
TMMW-103
0.28 J
TMMW-102
0.055 J
TMMW-101
0.23 J
W Lake Mead Dr
N
0
1200
1” = 1200’
LEGEND
APPROXIMATE PROPERTY LINE
MONITORING WELL LOCATION
MONITORING WELL NOT ANALYZED
MONITORING WELL , ABANDONED
2.1
PERCHLORATE CONCENTRATION, mg/L
(mg/L = MILLIGRAM PER LITER)
10
PERCHLORATE CONTOUR, mg/L
(DASHED WHERE APPROXIMATE)
NOTES:
1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR PERCHLORATE IS THE RESIDENTIAL WATER NDEP BASIC COMPARISON LEVEL (BCL). THE NDEP BCL FOR PERCHLORATE IS 0.018 mg/L.
Titanium Metals Corporation
181 North Water Street
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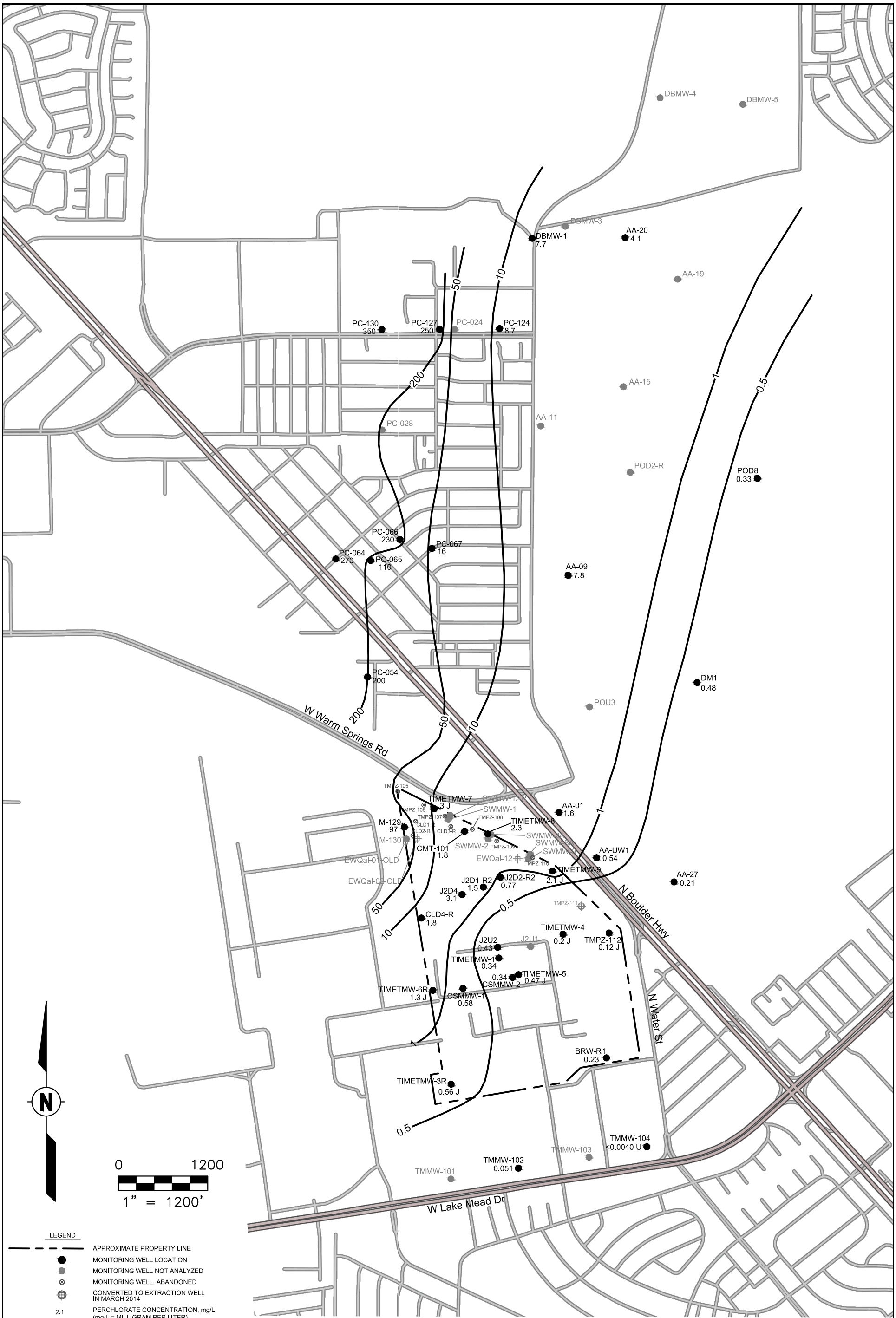
Project 1323080
2014 ANNUAL GROUNDWATER MONITORING REPORT
PERCHLORATE ISOCONCENTRATION MAP
2ND SEMESTER 2013
October 2014
Fig. 3



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- MONITORING WELL, ABANDONED
- CONVERTED TO EXTRACTION WELL IN MARCH 2014
- 2.1 PERCHLORATE CONCENTRATION, mg/L (mg/L = MILLIGRAM PER LITER)
- 10 PERCHLORATE CONTOUR, mg/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR PERCHLORATE IS THE RESIDENTIAL WATER NDEP BASIC COMPARISON LEVEL (BCL). THE NDEP BCL FOR PERCHLORATE IS 0.018 mg/L.

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2014 ANNUAL GROUNDWATER MONITORING REPORT

PERCHLORATE ISOCONCENTRATION MAP 1ST SEMESTER 2014

October 2014 Fig. 4