

Phase II Environmental Site Assessment (Revision 1)

B&T Metals
1855 3rd Street
Gering, Scotts Bluff County, Nebraska

June 21, 2017

Terracon Project No. 24159093/05159093

EPA Cooperative Agreement No. BF-97746301

NDEQ IIS: 44132

NDEQ Program ID: BF00274

ACRES # 206549

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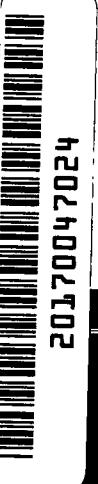
Nebraska Dept of Environmental Quality
By: _____ DEQ#182

Prepared for:
City of Gering
Gering, Nebraska

Prepared by:
Terracon Consultants, Inc.
Omaha, Nebraska

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Terracon



Environmental



Facilities



Geotechnical



Materials



June 21, 2017

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RECEIVED

Attn: Mr. Paul Snarr
P: (308) 436 5096
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JUN 22 2017

Nebraska Dept of Environmental Quality
By: _____ DEQ#182 _____

Re: Phase II Environmental Site Assessment Report (Revision 1)
B&T Metals Facility
1855 3rd Street
Gering, Scotts Bluff County, Nebraska
EPA Cooperative Agreement # BF-97746301
NDEQ IIS: 44321
NDEQ Program ID: BF00274
ACRES # 206549
Gering, Nebraska
Terracon Project No. 24159093/05159093

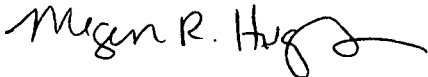
Dear Mr. Snarr:

Terracon has conducted a Phase II Environmental Site Assessment Report (ESA) (Revision 0) for the above-referenced property in Gering, Nebraska. The assessment was conducted in general accordance with the NDEQ approved *Property Specific Sampling Plan, Revision 2, dated September 12, 2016* (Appendix G) and the *Quality Assurance Project Plan - Revision 1, EPA Brownfields Hazardous Substance Assessments, Gering, Scotts Bluff County, Nebraska, EPA Cooperative Agreement No. BF-97746301, November 13, 2015*.

The purpose of the Phase II ESA was to assess groundwater and soil for potential contaminants suspected to have been associated with historic operations/activities at the site. This report was developed as part of the community-wide United States Environmental Protection Agency, Region 7 (EPA) Brownfields Hazardous Substances Assessment Grant, EPA Cooperative Agreement No. BF-97746301. Services are consistent with the EPA-approved *CERCLA Section 104(k) Assessment Cooperative Agreement Work Plan for Gering, Nebraska - Brownfields Assessment Cooperative Agreement, Project Period: October 1, 2014 – September 30, 2017*. This project and assessment support progress toward EPA's Strategic Plan Goal 3 "Cleaning Up Communities and Advancing Sustainable Development", Objective 3.1 "Promote Sustainable and Livable Communities".

If there are questions concerning the Phase II Environmental Site Assessment Report or if we may be of further assistance, please contact the Phase II Assessment Coordinator at [402-384-7025] or Megan.Hughes@terracon.com. Alternatively, contact the Senior Technical Reviewer, Mr. Michael Hagemeister at [402-384-7019] or Mike.Hagemeister@terracon.com.

Sincerely,
Terracon Consultants, Inc.



Megan R. Hughes
Phase II Assessment Coordinator

/MRH/MEH/dek3:mrh/nlm



Michael E. Hagemeister, P.E.
Senior Technical Reviewer

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EXECUTIVE SUMMARY

Phase I and Phase II assessments have been conducted for the B&T Metals located at 1855 3rd Street in Gering, Nebraska. The report provided herein discusses the activities and results of the Phase II Environmental Site Assessment (ESA) work. The ESA scope of services was developed based on the findings from the Phase I ESA.

The site is zoned MH, Heavy Industrial & Manufacturing District and is a total of 1.63 acres made up of six privately owned lots totaling 1.15 acres and an encroachment of an additional 0.48 acres onto the City's Right-of-Way. The site has been improved with two storage buildings, concrete paved parking, a concrete pad, and outdoor storage areas without hard surfacing. Based on Phase I research, at the time of the site reconnaissance (September 9, 2015) the site was an inactive former metal recycling facility with significant artifacts of the former business remaining on the property. It was reported that the metal recycling business operated at the property for approximately 60 years. Several empty and 55-gallon drums with unknown substances were observed on the ground surface at the site. Soil staining was observed near the drums and across the site at several locations. Considering the nature of metal salvage and scrapping operations, potential releases could reasonably be expected to be co-mingled non-petroleum and petroleum materials. A Phase II assessment was recommended in the Phase I ESA due to the long term historical use as a metal salvage and scrapping operation, and observed soil staining throughout the site.

Nine borings were advanced using direct-push sampling equipment and included the collection of soil and groundwater samples, a tenth boring (GP-10) was advanced in order to assess shallow soils. The sampling locations were selected to evaluate soil and groundwater impacted by volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and metals regulated under the Resource Conservation and Recovery Act (RCRA).

In addition, Terracon evaluated surface soils for RCRA metals and PCBs by composite sampling. The site property was divided into four scrap areas, samples were collected from both 0-1 and 1-12 inches below ground surface at five locations in each scrap area. This approach (dividing up the site property into smaller sections for composite sampling) was also used to assess surface soil conditions along the railroad tracks and near the former battery storage area.

The Phase II assessment has identified shallow soil and groundwater contaminant concentrations reported above the Nebraska Voluntary Clean-up Program Remediation Goals (NE VCP RGs) for groundwater, residential soil, and industrial soil. The compounds of potential concern based on the exceedances have been identified as arsenic, cadmium, lead, PCB 1260, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and indeno(1,2,3-cd)pyrene.

Several shallow soil samples (including composite samples) reported PCB 1260 above the NE VCP RGs for industrial properties. While the reported PCB concentration exceedances do exceed NDEQ VCP RGs, they do not exceed the 50 mg/kg threshold for PCB spills that would require PCB remediation under the Toxic Substances Control Act (TSCA).

Groundwater results for total RCRA metals appear to be affected by sample turbidity, when compared to the dissolved RCRA results, with the exception of arsenic at boring location GP-1.

Arsenic is a naturally occurring element found in the environment and is commonly found in soils and groundwater in the North Platte River valley. The EPA conducted a Preliminary Assessment (PA) at the nearby Scottsbluff Army Airfield (NDEQ IIS: 57510) which utilized a soil arsenic background of 3.65 mg/kg for Scottsbluff County. Based on this data the residential exceedances are likely due to naturally occurring mineral elements within the subsurface and are typical background values. Should the site property be redeveloped and/or rezoned for residential purposes the reported elevated arsenic concentrations should be considered during the initial planning phases.

Lead has been reported in shallow soils above NE VCP RGs for industrial properties at several of the composite sampling locations and at boring GP-10. Terracon recommends that localized soil removal from the impacted areas be implemented or a 1-2 foot earthen cap be placed at the site prior to redevelopment activities.

**PHASE II ENVIRONMENTAL SITE ASSESSMENT
(REVISION 1)
B&T METALS
1855 3rd Street
GERING, SCOTTS BLUFF COUNTY, NEBRASKA
EPA COOPERATIVE AGREEMENT # BF-97746301
NDEQ IIS: 44132
NDEQ Program ID: BF00274
ACRES # 206549**

**Terracon Project No. 05159093
June 21, 2017**

1.0 INTRODUCTION

Terracon has conducted a Phase II Environmental Site Assessment (ESA) of the above referenced site in Gering, Scotts Bluff County, Nebraska. The site is located at 1855 3rd Street in Gering, Nebraska. Its location is depicted in Exhibits 1 and 2 (Appendix A).

The purpose for conducting the Phase II ESA was to assess soil and groundwater at the site for the presence of various chemicals related to historical on-site activities. The scope of services was developed based on the results of Terracon's Phase I Environmental Site Assessment (ESA) dated November 16, 2015 and presented in the NDEQ-approved Property Specific Sampling and Analysis Plan (PSAP), Revision 2, dated September 12, 2016.

2.0 SITE DESCRIPTION

2.1 Location

The site is located at 1855 3rd Street in Gering, Nebraska. Its location is depicted in Exhibits 1 and 2 (Appendix A).

2.2 Site Characteristics

The site is located on 1.63 acres, made up of six privately owned lots totaling 1.15 acres and an encroachment of an additional 0.48 acres onto the City's Right-of-Way. The site is zoned MH, Heavy Industrial & Manufacturing District. The site has been improved with two storage buildings, concrete paved parking, a concrete pad, and outdoor storage areas without hard surfacing as shown in Exhibit 2, Site Diagram, in Appendix A. At the time of the site

reconnaissance, the site was an inactive former metal recycling facility with physical and environmental artifacts of the former business remaining on the property. Based on interview information, the site has been operated as a metal recycling business for approximately 60 years.

2.3 Local Geology and Groundwater

According to geologic references and a working knowledge of geology in the City of Gering, the geology of the region containing the site is generally characterized by Tertiary aged deposits comprised of sand and gravel. Terracon's boring logs provided in Appendix C indicate the geology in the site area consists of lean clay and sands.

Groundwater was encountered from 10 to 24 feet below ground surface. According to published hydrogeologic references and Terracon's working knowledge of groundwater conditions in the City of Gering, the flow of groundwater underlying the site is assumed to be generally toward the northeast. A summary of the site and surrounding vicinity's physical setting is provided in the table below.

TABLE 1
PHYSICAL SETTING INFORMATION FOR SITE AND SURROUNDING AREA

Physical Setting Information for Site and Surrounding Area		Source
Topography (Refer to Figure 1 of Appendix A for an excerpt of the Topographic Map)		
Site Elevation	Approximately 3,892 feet (NGVD)	USGS Topographic Map, Scottsbluff South Quadrangle, NE 1963, Map Revised 1976
Surface Runoff/ Topographic Gradient	Gently sloping toward the northeast.	
Closest Surface Water	Unnamed pond, approximately 310 feet south of the site and beyond the railroad tracks.	
Soil Characteristics		
Soil Type:	Mitchell	Scotts Bluff Gering, NE USDA, Soil Conservation Services Soil Survey issued June 17, 2015
Description:	Silt loam, well drained, 0-6% slope	
Geology/Hydrogeology		
Description:	Alluvial and High Plains regional aquifers; Sand and gravel deposits and White River Group local aquifers	USGS NWIS, June 2015

Physical Setting Information for Site and Surrounding Area		Source
Hydrogeologic Gradient:	Depth to groundwater is within approximately 10-14 feet below ground surface. Groundwater flow at the site is expected to be toward the northeast based on groundwater measurements taken during the assessment.	Boring Logs, Appendix C

3.0 SUMMARY OF PHASE I ASSESSMENT

Results of Phase I Environmental Site Assessment (ESA) research indicate that the site was utilized as a salvage yard for approximately 60 years. The historical use of the site included the use and storage of hazardous chemicals, automobiles, various types of metals, and various parts and equipment. Observations made during the site reconnaissance included staining throughout the site at several locations from releases of unknown substance. Leaks may have occurred of motor oil and hydraulic fluids, lubricants, and miscellaneous oils. The motor oil and hydraulic oil may have contained oils that contained PCBs since the materials pre-date the 1979 PCB ban. These on-site activities are suspect for possible releases and possible subsurface impact to soil and groundwater.

4.0 SCOPE OF SERVICES

The Phase II ESA scope of services is presented in the PSAP, provided in Appendix G, dated September 12, 2016, and approved by the NDEQ on September 22, 2016.

On October 5th and 6th, six composite shallow soil samples were collected and ten borings (GP-1 through GP-10) were advanced at the site using geoprobe equipment at the approximate locations shown on Exhibit 2 (Appendix A). The borings' latitude and longitude coordinates (NAD 83) are summarized in Table 1 (Appendix B). The purpose of the boring advancement was to evaluate subsurface contaminant characteristics in conjunction with historic on-site activities. Potential contaminants of concern (COC) associated with the site include:

- volatile organic compounds (VOCs) from historical site operations;
- polynuclear aromatic hydrocarbons (PAHs) from historical site operations;
- RCRA Metals, from the historical site operations, including battery recycling/reclamation; and
- polychlorinated biphenyls (PCBs), soil staining from historical site operations.

Borings GP-1 to GP-9 were advanced to a depth sufficient for penetrating the water table for groundwater sampling. Groundwater samples were not collected from boring location GP-10,

the boring was intended to collect shallow soil samples and not to assess groundwater. Each boring (GP-1 through GP-9) was advanced to approximately 18 feet below ground surface. In addition, shallow soils samples were collected and submitted as composite samples from six different areas at the site.

4.1 Direct Push Boring Advancement

A direct push Geoprobe® unit equipped with a hydraulic head was used to conduct soil and groundwater sampling activities. Soil and groundwater sampling methods used were consistent with the NDEQ PSAP and briefly described in Section 4.2 and 4.3, respectively.

4.2 Soil Sampling and Testing

Soil samples were collected from 10 boring locations at the site. At each boring location continuous soil cores were collected with a Geoprobe® soil sampler fitted with single-use acetate liners. The soil samples were screened with a photoionization detector (PID), which was calibrated prior to use with isobutylene and ambient air. Each boring location was logged to determine lithology and soil characteristics. Boring logs are included in Appendix C. Following sample collection, the boreholes were backfilled with granular bentonite. The Geoprobe® rods and samplers were decontaminated with a tap water/alconox wash and tap water rinse between sampling locations. During boring advancement, soil was displaced by probe rods as the rods were hydraulically driven into the ground.

TABLE 2
SUMMARY OF SOIL SAMPLES COLLECTED

Analyte	Laboratory Method	Container Size / Number	Preservative	Total Number of Samples
VOC	8260C	1-4oz jar	None	10
PAH	8270D SIM	1-4oz jar	None	10
Barium, Cadmium Chromium, Lead, Selenium, Silver	6010C	1-4oz jar	None	10
Mercury	7471B	1-4oz jar	None	10
Arsenic	7010	1-4oz jar	None	10
PCBs	8082A	1-4oz jar	None	10

Notes:

VOC = volatile organic compounds

oz = ounce

PAH = polynuclear aromatic hydrocarbons

PCBs = polychlorinated biphenyls

The soil samples were kept cool in insulated coolers containing ice during periods of field work and transporting. The samples were placed in refrigeration upon reaching Terracon's Omaha office following field tasks for overnight storage. Samples were placed back into insulated

coolers containing ice, the coolers were sealed, and the coolers with their contents were shipped under chain-of-custody procedures using a FedEx overnight courier to TestAmerica Laboratories of Cedar Falls, Iowa for analysis.

4.3 Groundwater Sampling and Testing

Groundwater samples were collected from nine boring locations (GP-1 through GP-9). Groundwater sample locations were selected to cover the geographic extent of the site. Groundwater samples were generally collected just below the water table. Temporary wells were installed at boring locations GP-1 through GP-4, groundwater samples were collected using a disposable bailer. At Geoprobe® locations GP-5 through GP-9 a Geoprobe® SP-16 groundwater sampling apparatus was driven below the water table. The groundwater samples were collected using new single-use disposable tubing equipped with a foot valve.

The depth to groundwater was measured inside the temporary wells and inside the probe rods with an electronic water level indicator. The depth to groundwater measurements are recorded in the individual boring logs located in Appendix C and in the field notes located in Appendix F.

Water samples were transferred to laboratory-supplied containers for later analytical testing in accordance with the table below.

TABLE 3
SUMMARY OF GROUNDWATER SAMPLES COLLECTED

Analyte	Laboratory Method	Container Size / Number	Preservative	0.45 Micron Filtration	# of Samples
VOC	8260C	40 ml / 3	HCL	No	9
PAH	8270D SIM	1,000 ml glass bottle with Teflon lined cap	None	No	9
Arsenic, Barium, Cadmium Chromium, Lead, Selenium, Silver Dissolved	6020A	1,000 ml polyethylene bottle	HNO ₃	Yes	9
Arsenic, Barium, Cadmium Chromium, Lead, Selenium, Silver Total	6020A	1,000 ml polyethylene bottle	HNO ₃	No	9

Analyte	Laboratory Method	Container Size / Number	Preservative	0.45 Micron Filtration	# of Samples
Mercury Dissolved	7470A	1,000 ml polyethylene bottle	HNO ₃	Yes	9
Mercury Total	7470A	1,000 ml polyethylene bottle	HNO ₃	No	9
PCBs	8082A	1,000 ml polyethylene bottle	None	No	9

Notes:

VOC = volatile organic compounds

ml = milliliters

HCL = hydrochloric acid

HNO₃ = Nitric Acid

PAH = polynuclear aromatic hydrocarbons

The groundwater samples were kept cool (stored at or below 4°C) in insulated coolers containing ice during periods of field work and transporting. A temperature blank accompanied each cooler. The samples were placed in refrigeration upon reaching Terracon's Omaha office following field tasks for overnight storage. Samples were placed back into insulated coolers containing ice, the coolers were sealed, and the coolers with their contents were shipped under chain-of-custody procedures using a FedEx overnight courier to TestAmerica Laboratories of Cedar Falls, Iowa for analysis.

4.3 Composite Soil Sampling

Terracon evaluated surface soils for RCRA metals and PCBs by composite sampling. The site was divided into four scrap areas (Scrap Area #1, #2, #3, and #4), samples were collected from both 0-1 and 1-12 inches below ground surface at five locations in each scrap area (as depicted on the Sampling Location Diagram, Exhibit 2 in Appendix A). In addition, surface soil conditions were assessed in an area along the railroad tracks and near the former battery storage area.

4.4 QA/QC Measures

Refer to Section 8.0 for detailed information regarding the QA/QC measures.

4.5 Cleaning Operations and Other Measures to Reduce Cross-Contamination

Sampling equipment and the working end of the geoprobe were cleaned prior to and at the completion of the field exploration with a solution of potable water and Alconox® detergent followed by a purified water rinse. Stainless steel push rods were cleaned between borings with

a solution of potable water and Alconox® detergent followed by a purified water rinse. Cleaning fluids were collected as mentioned in Section 9.0 below.

Single-use disposable tubing equipped with a stainless steel foot valve was used to collect water samples. Clean, single-use, disposable sampling gloves were used each time a groundwater sample was collected to reduce chances of cross contaminating samples.

4.6 Investigation Derived Waste

Refer to Section 9.0 for detailed information regarding investigation derived waste.

5.0 HYDROGEOLOGIC CHARACTERISTICS

Continuous soil samples were collected using a macro-core sampler advanced using a direct push probe. Soil samples were collected for field screening, laboratory analysis, field soil classification, and preparation of soil boring logs. Boring logs were prepared for each boring location and are included in Appendix C.

Observed water levels ranged from 10 to 18 feet below ground surface. These water levels do not necessarily represent stabilized water levels indicative of the water table. However, the recorded water levels provide a general indication of water table depth at the site. Stabilized groundwater levels were not measured to infer groundwater flow direction during the course of the limited subsurface activities. This was not critical to the assessment as groundwater sampling locations were spaced across much of the site to evaluate geo-chemistry conditions.

6.0 RATIONALE FOR SAMPLING LOCATIONS

Rationale for the sampling locations (Exhibit 2, Appendix A) used for the assessment at the subject site for addressing concerns related to historical site use/activities are as follows:

- GP-1 through GP-9 - Near the locations of 55-gallon drums storage, soil staining and general site coverage for the historical use of the site.
- GP-10 - Shallow soil sampling near observed soil staining.
- Scrap Areas 1, 2, 3, and 4 - Assess shallow surface soil for contaminants associated with the historical use of the property.
- Battery Storage Area - Assess shallow soils for contaminants associated with the former battery storage area.

- Railroad Tracks Area - Assess shallow soils for contaminants associated with the railyard activities.

7.0 SAMPLING AND ANALYSIS RESULTS

7.1 Groundwater

Groundwater samples were collected from nine of the boring locations. The analytical results did not indicate detections above the NE VCP RGs for VOCs, PAHs, and PCBs. Analytical results for the groundwater sampling locations eight RCRA metals (total) did indicate positive detections for arsenic, barium, cadmium, chromium, lead, and selenium. The following reported concentrations for arsenic, cadmium, and lead were above the NE VCP RGs:

- Arsenic Total: GP-1 (0.0975 mg/L), GP-2 (0.0589 mg/L), GP-3 (0.0527 mg/L)
- Arsenic Dissolved: GP-2 (0.0554 mg/L)
- Cadmium Total: GP-1 (0.00549 mg/L), GP-2 (0.00919 mg/L), GP-4 (0.0076 mg/L), GP-9 (0.00507 mg/L), decontamination fluids (0.0165 mg/L)
- Lead Total: GP-2 (0.213 mg/L), GP-3 (0.118 mg/L), GP-4 (0.0413 mg/L), GP-5 (0.0423 mg/L), GP-6 (0.0944 mg/L), GP-8 (0.0858 mg/L), decontamination fluids (1.37 mg/L)
- Lead Dissolved: GP-8 (0.0344 mg/L) and Decontamination Fluids (0.526 mg/L)

Analytical data reported for polychlorinated biphenyls (PCBs) were below the laboratory reporting and method detection limits.

Laboratory analytical results are summarized in tables 2 (Summary of VOCs), 3A (Summary of RCRA Metals, dissolved and total), 4A (PAHs), 5A (PCBs) of Appendix B. Included in these tables are regulatory action or guidance level comparison concentrations taken from state sources for comparison to reported values. Comparisons to the reference concentrations provide an indication of the significance of the detected analytes, but do not necessarily indicate a requirement for cleanup.

In addition, pH data was determined using a hand held calibrated pH meter at the time the groundwater samples were collected. The pH results ranged from 7.5 to 7.9 respectively. A copy of the field notes has been provided in Appendix F.

7.2 Soil

Soil samples were collected from the ten boring locations. In addition, 0 to 1 and 1 to 12 inch composite samples were collected, prepared, and analyzed to represent six areas at the facility.

Phase II ESA (Revision 1)

B&T Metals ■ Gering, Scotts Bluff County, Nebraska

June 21, 2017 ■ Terracon Project No. 05159093



Analytical results for the eight RCRA metals, PCBs, and PAHs, did indicate an exceedance of NE VCP RGs for residential and industrial properties. The findings are summarized below:

- Arsenic reported above NE VCP RGs for residential: GP-1 (3.87 mg/kg), GP-2 (3.95 mg/kg), GP-3 (3.89 mg/kg), GP-4 (5.51 mg/kg), GP-5 (5.15 mg/kg), GP-6 (5.27 mg/kg), GP-7 (4.27 mg/kg), GP-8 (<5.75 mg/kg), GP-9 (4.61 mg/kg), GP-10 (6.49 mg/kg). Scrap Area #1 composite (5.8 mg/kg), Scrap Area #2 composite (11.4 mg/kg), Scrap Area #3 composite (6.69 mg/kg), Scrap Area #4 composite (12.7 mg/kg), Battery Storage Area composite (5.55 mg/kg), Railroad Tracks composite (9.93 mg/kg)
- Cadmium reported above NE VCP RGs for residential: railroad tracks composite (32.0 mg/kg)
- Lead reported above NE VCP RGs for residential and/or industrial: GP-6 (688 mg/kg), GP-10 (1,240 mg/kg), Scrap Area #1 (673 mg/kg), Scrap Area #2 (520 mg/kg), Scrap Area #3 (2,550 mg/kg), Scrap Area #4 (689 mg/kg), Battery Storage Area (3,190 mg/kg), Railroad tracks (14,600 mg/kg)
- Benzo(a)anthracene reported above NE VCP RGs for residential properties: GP-7 (0.403 mg/kg) and GP-10 (0.425 mg/kg)
- Benzo(b)fluoranthene reported above NE VCP RGs for residential properties: GP-7 (0.613 mg/kg) and GP-10 (0.522 mg/kg)
- Benzo(a)pyrene reported above NE VCP RGs for residential properties: GP-7 (0.410 mg/kg) and GP-10 (0.377 mg/kg)
- Indeno(1,2,3-cd)pyrene reported above NE VCP RGs for residential properties: GP-7 (0.232 mg/kg) and GP-10 (0.214 mg/kg)
- PCB 1260 reported above NE VCP RGs for residential and/or industrial properties: GP-3 (2.20 mg/kg), GP-10 (0.760 mg/kg), Scrap Area #1 (1.02 mg/kg), Scrap Area #2 (0.580 mg/kg), Scrap Area #3 (0.430 mg/kg), Scrap Area #4 (0.335 mg/kg), Railroad Tracks (0.930 mg/kg).
- PCB 1016 reported above NE VCP RGs for residential and/or industrial properties: GP-3 (0.124 mg/kg), GP-10 (0.117 mg/kg).

Laboratory analytical results are summarized in tables 3B (Summary of RCRA Metals), 4B (Summary of PAHs), 5B (Summary of PCBs) of Appendix B. Comparisons to the reference concentrations (NE VCP RGs) provide an indication of the significance of the detected analytes. Concentrations of VOCs in soil samples submitted for laboratory analysis were not reported

above the laboratory reporting limits, therefore, a summary table was not prepared for the VOC analytes.

8.0 DATA QUALITY REVIEW

8.1 Field Data Quality Review

The NDEQ Generic QAPP set forth procedures and methods for data collection. The PSAP defined the specific procedures necessary to maintain data quality to support the project decisions. The QAPP required both field and laboratory checks to monitor conformance with project quality limits.

8.2 Quality Control Parameters

The NDEQ Generic QAPP set forth procedures and methods for data collection. The PSAP defined the specific procedures necessary to maintain data quality to support the project decisions. The QAPP required both field and laboratory checks to monitor conformance with project quality limits.

8.3 Precision

As described in the NDEQ Generic QAPP, precision is evaluated using the relative percent difference (RPD) between an actual sample and a duplicate sample. Duplicate soil and groundwater samples were collected in accordance with the QAPP and PSAP. The RPDs calculated were within the acceptable recovery limits.

One blind duplicate groundwater sample was collected for laboratory analysis. Results of blind duplicate analysis (sample GP-A) are summarized along with the duplicate's corresponding sample; GP-3 (GP-A). There were relative percent differences (RPDs) reported in the groundwater sample collected for total mercury (20.6%), arsenic (7.8%), barium (7.5%), cadmium (19.8%), chromium (42%), and lead (80.8 %). This is likely due to the turbidity of the sample, there were no reported RPD differences for dissolved cadmium, chromium, selenium, mercury, and silver. The RPD values were reported with differences for dissolved arsenic (0.9%), dissolved barium (8.5%), and dissolved lead (70.8%).

Accuracy is evaluated using a percent recovery measured in spiked and un-spiked samples. Accuracy is a function of the laboratory method, and parameters regarding accuracy are included in the data quality packages provided by the laboratory with each sample delivery group (SDG).

Trip blanks and equipment blanks were included with the field groundwater samples. Laboratory results for blank samples were below laboratory detection limits. The field duplicate

and blank sample results indicate that precision of the sample results is adequate for project decision making.

Decontamination water rinsate (equipment blank) was generated during cleaning of stainless steel geoprobe push rods between borings. One sample of the rinsate was collected for laboratory testing for the presence of VOCs and RCRA Metals. Results of the rinsate analysis is summarized in tables 2, 3A, 4A, and 5A (Appendix B). The rinsate sample did not indicate detectable concentrations of VOCs, PCBs, or PAHs above the laboratory reporting limits. However, a detection of lead was reported at 0.00052 mg/L. This does not indicate a significant issue due to the dissolved RCRA Metals results not indicating a significant lead issue in groundwater, results are below the NE VCP RG with the exception of GP-8.

Rinsate analytes should not be detected when adequate cleaning or decontamination of sampling equipment occurs prior to re-use at subsequent sampling locations. The presence of analytes is indicative of possible cross contamination between sampling. The rinsate results do not indicate cross contamination of groundwater samples occurred, the lead detection was reported above the laboratory detection limit; however, it does not appear that possible cross contamination between sampling occurred as no other RCRA metal detections were reported in the equipment blank rinsate sample.

Laboratory reports identified sample holding times were not exceeded.

Field personnel indicated that most of the groundwater samples contained sediment which appeared to react with the hydrochloric acid preservative in the sample containers, as evidenced by effervescence in the samples. The reaction would reduce the strength and amount of acid preservative in the containers and result in elevated pH values. Improper preservation of aqueous samples is noted on laboratory reports for seven of the seven groundwater samples received for VOCs and seven of the groundwater samples received for RCRA Metals (pH > 2). QC samples as blanks and duplicates were received by the laboratory with proper chemical preservation (pH < 2).

Soil samples collected and analyzed from nine locations for PCBs were reported as weathered soil and not a close match to any of the laboratory's Aroclor standards used for instrument calibration. Based on the poor match, the samples were reported as a mixture of PCB-1016 and PCB-1260. The poor match for Aroclor represents an uncertainty associated with the results reported for PCB-1016 and PCB-1260.

8.4 Representativeness

Representativeness of the field assessment activities to document the degree to which the sample data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition was evaluated. Review of field

methods and procedures indicate that sample collection, handling, and transportation were conducted in general agreement with the QAPP and PSAP.

Review of analytical results for soil and groundwater samples indicates the data are generally consistent between sampling points and with successive sampling and analysis activities.

8.5 Completeness

Laboratory analysis was completed on each of the samples collected in the field and submitted for analysis. No data was rejected based on review of the data. Completeness was determined to be 100 percent for samples submitted to the laboratory.

8.6 Comparability

To produce comparable data, the units specified for analytical results obtained during the field activities are consistent throughout this project and standardized analytical methods have been used for each parameter.

8.7 Sensitivity

With the exception of PCBs, laboratory method detection limits for soil and groundwater were sufficient to report concentrations below risk based screening levels (RBSLs) and maximum contaminant levels (MCLs). In a few cases, dilutions were required for laboratory analyses because of matrix interference.

Detection limits for PCBs in groundwater below the NDEQ residential and industrial comparison values, presented in Table 2 of the NDEQ-approved PSAP, were not met by the laboratory. As noted in section 5.6 of the PSAP Laboratory Selection and Analytical Methods, achieving repeatable detection limits below very low calculated risk-based regulatory levels is routinely difficult, particularly within the technical and financial limits of EPA Brownfield grant funding. This project achieved detection limits from groundwater samples on the order of 2.6 to 30 times the NDEQ risk-based threshold of 0.0000434 mg/L. The higher range appears associated with turbid samples. The NDEQ comparison is 14.7 times lower than EPA's enforceable Maximum Contaminant Level (MCL) for treated drinking water. A review of the groundwater data shows no analytical measurement above the achieved elevated detection limits for any samples. This is indicative of a trend of "no impact" to groundwater relative to Brownfields re-use of the site. For purposes of evaluation, it is our opinion that the achieved detection limits are suitable for use as a comparative baseline. The NDEQ reserves final judgement relative to suitability of this approach.

8.8 Laboratory Data Quality Review

The project laboratories completed Level 4 reviews, including validation and verification of laboratory data and processes. Case narratives included in the laboratory sample delivery group (SDG) reports summarize the results for laboratory method blanks, laboratory control samples, matrix spike samples, and matrix spike duplicate samples. The SDG reports and documentation are in accordance with the QAPP.

9.0 INVESTIGATION DERIVED WASTE

Decontamination fluids, soil cores, and spent supplies such as acetate liners, single-use tubing, and sampling gloves were investigation derived waste (IDW) generated during the field activities at the site.

9.1 Decontamination Fluids

About five gallons of water, generated from cleaning probe rods between sample locations, was collected and containerized in a five-gallon sealable bucket. Laboratory analytical data from the sample collected from the decon fluids reported elevated concentrations of cadmium (0.0165 mg/L), lead (1.37 mg/L), and PCB 1260 (0.00310 mg/L). A copy of the analytical report provided by the laboratory was submitted to Mr. Pat Heath, City of Gering Public Works Director, along with a request to dispose of the water mix at the City of Gering wastewater treatment plant. A response has not been received prior to the issuance of this report. As such, final deposition of IDW water is pending.

9.2 Soil Cores

Soil cores generated as a result of soil sampling with a macro-core sampler were containerized in three five-gallon sealable buckets. A composite of the soil cores was collected for laboratory analysis which reported elevated concentrations of arsenic (5.08 mg/kg) and PCB 1260 (0.221 mg/kg). Terracon has provided Mr. Darrel Vance with the City of Gering, Director of Environmental Services, a copy of the analytical data and a request to dispose of the soil cores at the municipal landfill. A response has not been received prior to the issuance of this report. As such, final deposition of IDW soil is pending.

9.3 Other Investigation Derived Waste

Acetate liners, single-use tubing used to sample groundwater, and sampling gloves were generated as IDW as a consequence of collecting groundwater and handling various equipment that came into contact with groundwater and soil that may have been impacted. These spent materials/supplies were handled as municipal waste, incorporated with other municipal waste, and ultimately transported to and disposed of in a sanitary landfill.

10.0 DISCUSSION

10.1 Discussion of Discovered Contaminants

A discussion of discovered contaminants for borings and the composite sampling areas is as follows:

- VOCs, PAHs, and PCBs were not reported above the NE VCP RGs in groundwater samples collected from the site.
- Arsenic (GP-1 through GP-3) was reported above the NE VCP RGs in groundwater samples collected from the site and analyzed for total metals. Dissolved arsenic was reported above NE VCP RGs in the groundwater sample collected from GP-1. The exceedances for total metals could be a result of turbidity.
- Cadmium (GP-1, GP-2, GP-4, GP-9) was reported in four samples above the NE VCP RGs in groundwater collected from the site and analyzed for total metals, this could be a result of turbidity. Dissolved cadmium was reported above NE VCP RGs in the groundwater sample collected from the decontamination fluids sample. There were no reported exceedances for dissolved cadmium at boring locations GP-1, GP-2, GP-4 and GP-9.
- Total lead (GP-2 through GP-6, GP-8) was reported in six samples above the NE VCP RGs in groundwater collected from the site, this could be a result of turbidity. Dissolved lead was reported above NE VCP RGs in the groundwater sample collected from boring location GP-8.
- Volatile organic compounds, barium, cadmium, chromium, mercury, silver, and selenium were not measured above the NE VCP RGs in soils samples collected from the site.
- Arsenic was reported above the NE VCP RGs for residential properties in soil samples from all 10 boring locations, and within each of the composite sampling areas. Arsenic was not reported above the NE VCP RGs for industrial properties in soil samples collected from the site. The EPA conducted a Preliminary Assessment (PA) at the nearby Scottsbluff Army Airfield (NDEQ IIS: 57510), which utilized a soil arsenic background of 3.65 mg/kg for Scottsbluff County. Based on this data, the residential exceedances are likely due to naturally occurring mineral elements within the subsurface and are typical background values.
- Lead was reported in soils above the NE VCP RGs for residential properties at GP-6, GP-10, the scrap areas, the battery storage area, and the railroad tracks. Lead was

reported above the NE VCP RGs for industrial properties at GP-10, scrap area #3, the battery storage area, and the railroad tracks.

- Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, and Indeno(1,2,3-cd)pyrene were reported above the NE VCP RGs for residential properties at boring locations GP-7 and GP-10. The reported concentrations did not exceed the NE VCP RGs for industrial properties.
- PCB 1260 was reported above the NE VCP RG for residential use at locations GP-3, GP-10, scrap areas #1 through #4, and the railroad tracks. PCB 1260 was reported above the NE VCP RGs for industrial properties at locations GP-3, GP-10, scrap area #1 and the railroad tracks.

11.0 CONCLUSIONS

The Phase II assessment has identified shallow soil and groundwater contaminant concentrations above the Nebraska Voluntary Clean-up Program Remediation Goals (NE VCP RGs) for groundwater, residential soil, and industrial soil. The compounds of potential concern based on the exceedances have been identified as arsenic, cadmium, lead, PCB 1260, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and indeno(1,2,3-cd)pyrene.

Several shallow soil samples (including composite samples) reported PCB 1260 above the NE VCP RGs for industrial properties. While the reported PCB concentration exceedances do exceed NDEQ VCP RGs, they do not exceed the 50 mg/kg threshold for PCB spills that would require PCB remediation under the Toxic Substances Control Act (TSCA).

Groundwater results for total RCRA metals appear to be affected by sample turbidity, when compared to the dissolved RCRA results, with the exception of arsenic at boring location GP-1.

Arsenic is a naturally occurring element found in the environment and is commonly found in soils and groundwater in the North Platte River valley. The EPA conducted a Preliminary Assessment (PA) at the nearby Scottsbluff Army Airfield (NDEQ IIS: 57510) which utilized a soil arsenic background of 3.65 mg/kg for Scottsbluff County. Based on this data, the residential exceedances are likely due to naturally occurring mineral elements within the subsurface and are typical background values. Should the property be redeveloped and/or rezoned for residential purposes, the reported elevated arsenic concentrations should be considered during the initial planning phases.

Lead has been reported in shallow soils above NE VCP RGs for industrial properties at several of the composite sampling locations and at boring GP-10. Terracon recommends that localized soil removal from the impacted areas be implemented or a 1-2 foot earthen cap be placed at the site prior to redevelopment activities.

12.0 DEVIATIONS FROM THE PSAP

Deviations from the PSAP are presented below:

- The temporary monitoring wells were not surveyed to a relative site benchmark. This was not critical to the assessment as groundwater sampling locations were spaced across much of the site to evaluate geo-chemistry conditions.
- Photos were taken at the time of the field work; however, upon download the phone that was used to take the photos crashed. The photos were not able to be recovered. Therefore, photos have not been included in the final report.

13.0 REFERENCES

Sources of information used to prepare this report are as follows:

- Terracon's Phase I Environmental Site Assessment report dated November 16, 2015.
- Nebraska Department of Environmental Quality, Voluntary Cleanup Program Remediation Goals, September 2012.
- United States Geological Survey (USGS). 1975. Scottsbluff South, Nebraska, 7.5-minute Series Topographic Quadrangle Map.

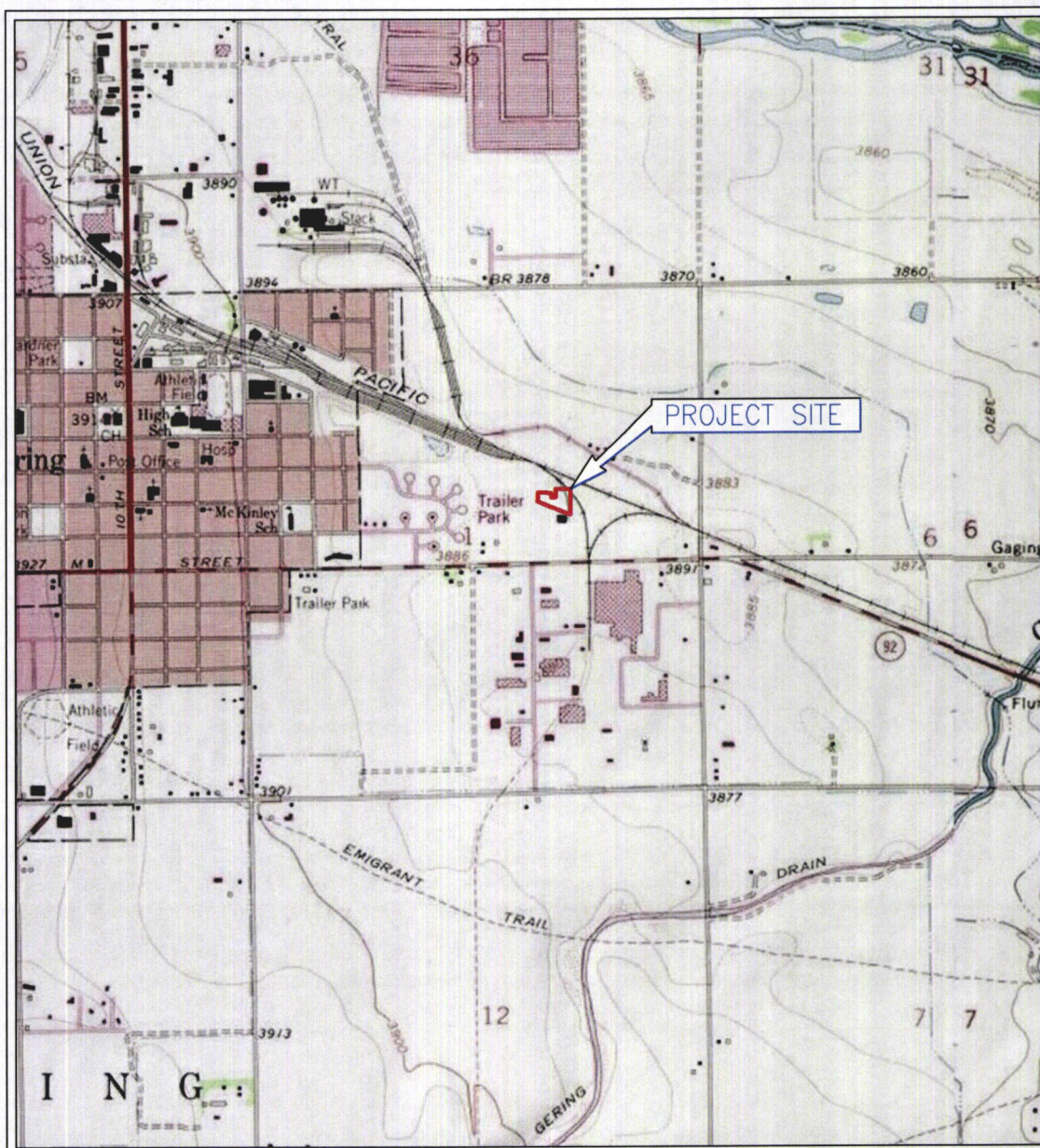
14.0 GENERAL COMMENTS

The analysis and opinions expressed in this report are based upon the data obtained from the indicated soil borings advanced at the indicated locations and from other information discussed in this report. This report does not reflect any variations in contaminant distribution which may occur beyond or between the indicated boring locations.

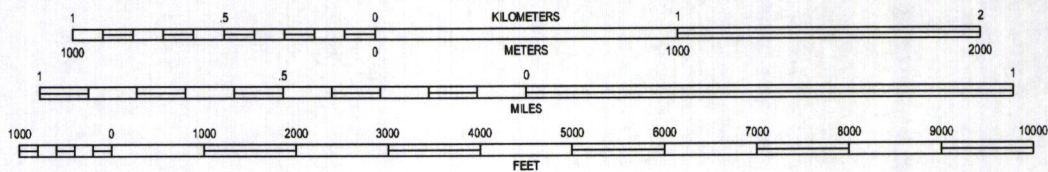
This report is prepared for the exclusive use of the City of Gering for specific application to the project as discussed and has been prepared in accordance with generally accepted local assessment practices within the scope of the client's directives. No warranties, either express or implied, are intended or made. Should any changes in the nature or location of contaminants as outlined be observed, the conclusions and recommendations contained in this report cannot be considered valid unless the changes are reviewed and the conclusions and objectives of this report are modified or verified in writing by Terracon.

APPENDIX A

UNITED STATES — DEPARTMENT OF THE INTERIOR — GEOLOGICAL SURVEY




SCALE 1:24 000

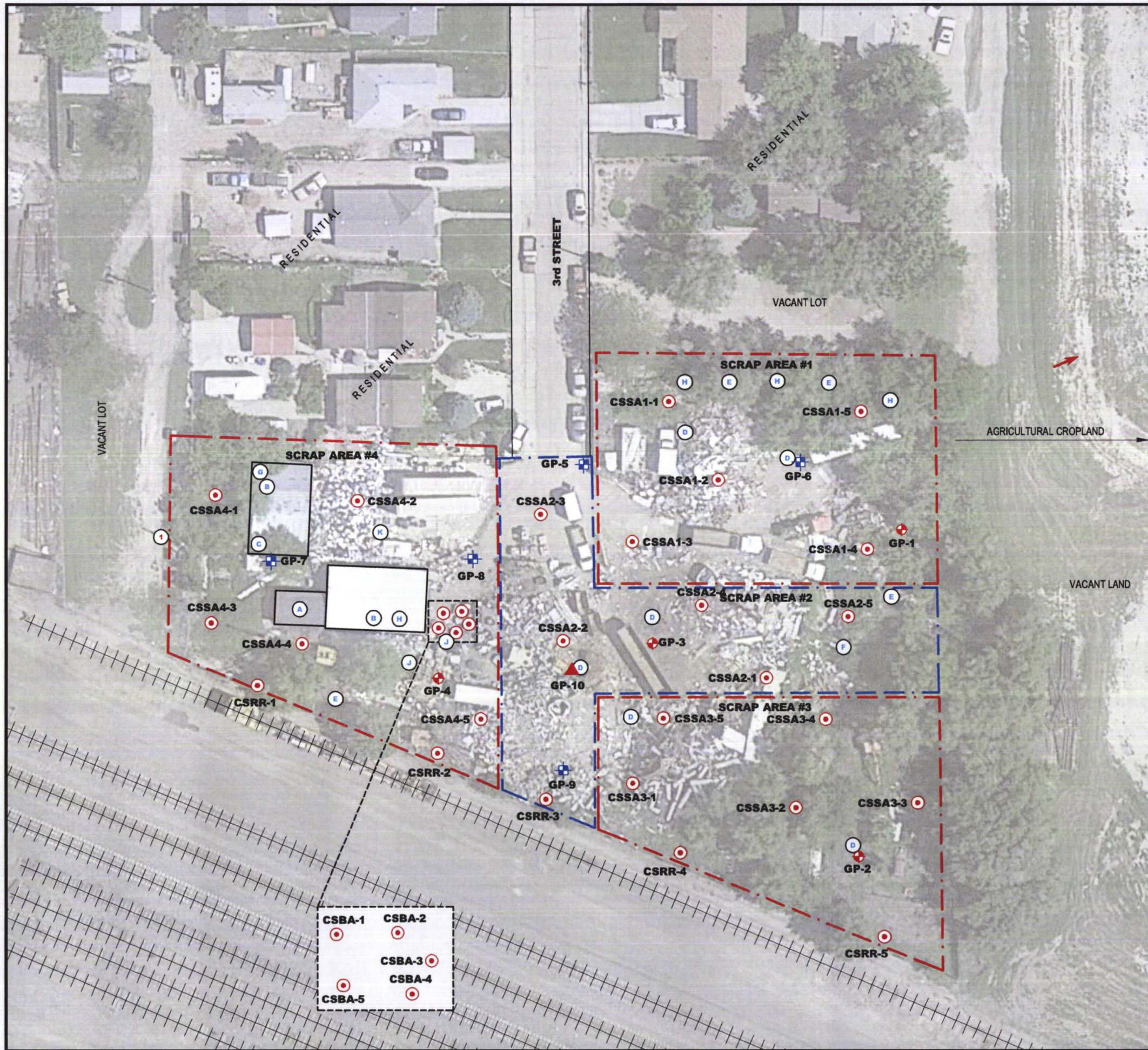


CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

SCOTTSBLUFF SOUTH, NEBRASKA
QUADRANGLE
1976
7.5 MINUTE SERIES (TOPOGRAPHIC)



Project Mng'r: MRH	Project No. 05159093	 Consulting Engineers and Scientists 15080 A CIRCLE OMAHA, NE 68144 PH. (402) 330-2202 FAX. (402) 330-7606	TOPOGRAPHIC / LOCATION MAP	EXHIBIT
Drawn By: PAI	Scale: AS SHOWN		B & T METALS 1855 3rd STREET NEBRASKA	1
Checked By: MRH	File No. 05159093C02			
Approved By: MEH	Date: 8/31/16			
		GERING	TOPO	



GENERAL LEGEND

- 1 POLE-MOUNTED TRANSFORMER
- A OFFICE
- B SHOP BUILDING
- C FRENCH DRAIN
- D STAINED SOIL
- E 55-GALLON DRUMS
- F OUT-OF-SERVICE HAND PUMP (CONNECTED TO CITY WATER)
- G 55-GALLON DRUM WHITE TRAFFIC PAINT
- H TIRES
- J BATTERY RECYCLING CONCRETE PAD
- K FORMER BUILDING LOCATION (BURNED DOWN ~12 YEARS PRIOR)
- - - APPROXIMATE SITE BOUNDARY
- - - APPROXIMATE BOUNDARY FOR CITY OF GERING PROPERTY
- RAILROAD TRACKS
- PRESUMED GROUNDWATER FLOW DIRECTION

SAMPLING LEGEND

- GP-2 TEMPORARY WELL GEOPROBE LOCATION SOIL & GROUNDWATER
- GP-6 GEOPROBE LOCATION SOIL & GROUNDWATER
- GP-10 GEOPROBE LOCATION SOIL ONLY
- CSSA1 COMPOSITE SAMPLES SCRAP AREA #1
- CSSA2 COMPOSITE SAMPLES SCRAP AREA #2
- CSSA3 COMPOSITE SAMPLES SCRAP AREA #3
- CSSA4 COMPOSITE SAMPLES SCRAP AREA #4
- CSBA COMPOSITE SAMPLES BATTERY STORAGE AREA
- CSRR COMPOSITE SAMPLES RAILROAD TRACKS

IMAGE SOURCE: GOOGLE EARTH PRO, 2014

PROPOSED SAMPLING LOCATION DIAGRAM

B & T METALS
1855 3rd STREET

NEBRASKA

GERING

Terracon
Consulting Engineers and Scientists

15080 A CIRCLE
PH. (402) 330-2202
OMAHA, NE 68144
FAX. (402) 330-7806

DESCRIPTION

BY

DATE

REV

APPENDIX B

TABLE 1
GPS COORDINATES FOR GEOPROBE BORING LOCATIONS
B and T Metals
1855 3rd Street
Gering, Scotts Bluff County, Nebraska
Terracon Project No. 24159093 / 05159093

Sample Location/ Boring Number	North	West
	Latitude	Longitude
GP-1	41.8276389	103.6493889
GP-2	41.8273056	103.649667
GP-3	41.8275	103.6498333
GP-4	41.8274167	103.6501667
GP-5	Not Recorded	Not Recorded
GP-6	41.8276944	103.6495
GP-7	41.8275833	103.6504444
GP-8	41.8276667	103.6501389
GP-9	41.827389	103.649833
GP-10	41.8275556	103.6498889

Notes:

Geographic coordinates summarized above are provided in units of decimal degrees and are in reference to the North American Datum 1983 (NAD 83) with an accuracy of 7 feet.

TABLE 2
SUMMARY OF DETECTED VOC ANALYTES IN GROUNDWATER SAMPLES
B and T Metals
1855 3rd Street
Gering, Scotts Bluff County, Nebraska
Terracon Project No. 24159093 / 05159093

Sample I.D. / Boring Number	Sample Collection Date	VOCs (mg/L)	
		Acetone	Trichlorofluoromethane
GP-1	10/6/2016	0.0171	<0.00400
GP-2	10/6/2016	<0.0100	0.0255
GP-3	10/6/2016	<0.0100	<0.00400
GP-A (GP-3 Duplicate)	10/6/2016	<0.0100	<0.00400
GP-4	10/6/2016	<0.0100	<0.00400
GP-5	10/6/2016	<0.0100	<0.00400
GP-6	10/6/2016	<0.0100	<0.00400
GP-7	10/6/2016	<0.0100	<0.00400
GP-8	10/6/2016	<0.0100	<0.00400
GP-9	10/6/2016	<0.0100	<0.00400
Trip Blank (C13)	10/5/2016	<0.0100	<0.00400
Field Blank	10/6/2016	<0.0100	<0.00400
Equipment Blank	10/6/2016	<0.0100	<0.00400
Trip Blank (8-J)	10/5/2016	<0.0100	<0.00400
Trip Blank (17-C)	10/5/2016	<0.0100	<0.00400
¹ NE-VCP RGs		NA	NA

Notes:

Volatile Organic Compounds (VOC) analysis by Method 8260C.

NA = Not Applicable. NDEQ regulatory level not established.

< indicates less than

This table summarizes analytes where a positive detection was reported. Refer to the laboratory reports in Appendix D for a list of parameters in the analysis suite.

mg/L = milligrams per liter

¹Nebraska Voluntary Clean-Up Program (VCP) Remediation Goals (RG) - Groundwater

Table 3A
SUMMARY OF DETECTED RCRA METAL ANALYTES IN GROUNDWATER SAMPLES
B and T Metals
1855 3rd Street
Gering, Scotts Bluff County, Nebraska
Terracon Project No. 24159093 / 05159093

Sample I.D. / Boring Number	Sample Collection Date	RCRA Dissolved (mg/L)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Silver	Selenium
GP-1	10/6/2016	0.0554	0.0837	<0.0005	<0.005	0.00987	<0.0002	<0.001	<0.005
GP-2	10/6/2016	0.0240	0.0831	<0.0005	<0.005	<0.005	<0.0002	<0.001	<0.0250
GP-3	10/6/2016	0.0219	0.0598	<0.0005	<0.005	0.000778	<0.0002	<0.001	<0.005
GP-A (GP-3 Duplicate)	10/6/2016	0.0221	0.0651	<0.0005	<0.005	0.00163	<0.0002	<0.001	<0.005
GP-4	10/6/2016	0.00974	0.0699	<0.0005	<0.005	0.000843	<0.0002	<0.001	0.00542
GP-5	10/6/2016	0.00423	0.055	<0.0005	<0.005	<0.0005	<0.0002	<0.001	<0.005
GP-6	10/6/2016	0.00489	0.067	<0.0005	<0.005	<0.0005	<0.0002	<0.001	<0.005
GP-7	10/6/2016	0.00291	0.163	<0.0005	<0.005	0.00103	<0.0002	<0.001	<0.005
GP-8	10/6/2016	0.0185	0.143	0.000601	0.00898	0.0344	<0.0002	<0.001	<0.005
GP-9	10/6/2016	0.00313	0.133	<0.0005	<0.005	0.0126	<0.0002	<0.00100	<0.005
Trip Blank (C13)	10/5/2016	NT	NT	NT	NT	NT	NT	NT	NT
Field Blank	10/6/2016	<0.00200	<0.00200	<0.0005	<0.005	0.000871	<0.0002	<0.001	<0.005
Equipment Blank	10/6/2016	<0.00200	<0.00200	<0.0005	<0.005	<0.0005	<0.0002	<0.001	<0.005
Trip Blank (8-J)	10/5/2016	NT	NT	NT	NT	NT	NT	NT	NT
Trip Blank (17-C)	10/5/2016	NT	NT	NT	NT	NT	NT	NT	NT
¹ NE-VCP RGs		0.05	2	0.005	0.1	0.015	0.002	0.1 ²	0.05

Notes:

Metals analysis by Method 6010C, except Arsenic by Method 7010 and Mercury by Method 7471B.

Bold results indicate sample laboratory result exceeded NDEQ action level.

NT = Compound was not tested for that particular sample.

< indicates less than

This table summarizes analytes where a positive detection was reported. Refer to the laboratory reports in Appendix D for a list of parameters in the analysis suite.

mg/L = milligrams per liter

¹Nebraska Voluntary Clean-Up Program (VCP) Remediation Goals (RG) - Groundwater

²Silver and Compounds

Table 3A
SUMMARY OF DETECTED RCRA METAL ANALYTES IN GROUNDWATER SAMPLES
B and T Metals
1855 3rd Street
Gering, Scotts Bluff County, Nebraska
Terracon Project No. 24159093 / 05159093

Sample I.D. / Boring Number	Sample Collection Date	RCRA Total (mg/L)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Silver	Selenium
GP-1	10/6/2016	0.0975	1.01	0.00549	<0.005	0.00252	<0.0002	<0.001	<0.0250
GP-2	10/6/2016	0.0589	0.352	0.00919	0.00544	0.213	0.000551	<0.001	<0.0250
GP-3	10/6/2016	0.0527	0.296	0.0109	0.00633	0.118	0.000743	<0.001	<0.0250
GP-A (GP-3 Duplicate)	10/6/2016	0.057	0.319	0.0133	0.0097	0.278	0.000604	<0.001	<0.0250
GP-4	10/6/2016	0.0346	0.276	0.0076	<0.005	0.0413	<0.0002	<0.001	<0.0250
GP-5	10/6/2016	0.0361	0.376	0.00448	0.023	0.0423	<0.0002	<0.001	<0.0250
GP-6	10/6/2016	0.0377	0.266	0.00288	0.0438	0.0944	<0.0002	<0.001	<0.0250
GP-7	10/6/2016	0.00511	1.12	0.00427	0.00896	0.00441	0.000216	<0.001	<0.0250
GP-8	10/6/2016	0.0347	0.23	0.00206	0.0179	0.0858	<0.0002	<0.001	<0.0250
GP-9	10/6/2016	0.0209	0.552	0.00507	0.036	0.00733	<0.0002	<0.001	<0.0250
Trip Blank (C13)	10/5/2016	NT	NT	NT	NT	NT	NT	NT	NT
Field Blank	10/6/2016	<0.00200	<0.00200	<0.0005	<0.005	<0.0005	<0.0002	<0.001	<0.005
Equipment Blank	10/6/2016	<0.00200	<0.00200	<0.0005	<0.005	0.00052	<0.0002	<0.001	<0.005
Trip Blank (8-J)	10/5/2016	NT	NT	NT	NT	NT	NT	NT	NT
Trip Blank (17-C)	10/5/2016	NT	NT	NT	NT	NT	NT	NT	NT
¹ NE-VCP RGs		0.05	2	0.005	0.1	0.015	0.002	100 ²	0.05

Notes:

Metals analysis by Method 6010C, except Arsenic by Method 7010 and Mercury by Method 7471B.

Bold results indicate sample laboratory result exceeded NDEQ action level.

NT=Compound was not tested for that particular sample.

< indicates less than

This table summarizes analytes where a positive detection was reported. Refer to the laboratory reports in Appendix D for a list of parameters in the analysis suite.

mg/L = milligrams per liter

¹Nebraska Voluntary Clean-Up Program (VCP) Remediation Goals (RG) - Groundwater

² Silver and Compounds

Table 3B
SUMMARY OF DETECTED RCRA METAL ANALYTES IN SOIL SAMPLES
B and T Metals
1855 3rd Street
Gering, Scotts Bluff County, Nebraska
Terracon Project No. 24159093 / 05159093

Sample I.D. / Boring Number	Sample Collection Date	RCRA Metals (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Silver	Selenium
GP-1 (0-2')	10/5/2016	3.87	207	<0.880	11.9	29.2	<0.0214	<0.880	<6.60
GP-2 (0-2')	10/5/2016	3.95	185	<1.68	12.0	20.5	<0.0213	<1.68	<12.6
GP-3 (0-2')	10/5/2016	3.89	206	<1.00	11.0	175	<0.0226	<1.00	<7.53
GP-4 (0-2')	10/5/2016	5.51	139	2.99	12.3	196	0.0544	<2.57	<19.3
GP-5 (0-2')	10/5/2016	5.15	200	<0.947	14.3	43	<0.0207	<0.947	<7.11
GP-6 (0-2')	10/5/2016	5.27	188	1.67	12.9	688	0.0691	<0.890	<6.68
GP-7 (0-2')	10/5/2016	4.27	200	3.02	14.2	386	0.0558	<0.877	<6.58
GP-8 (0-2')	10/6/2016	< 5.75	208	<0.872	10.9	33.2	<0.0221	<0.872	<6.54
GP-9 (0-2')	10/6/2016	4.61	197	<0.966	11.4	24.7	<0.0223	<0.966	<7.25
GP-10 (0-2')	10/6/2016	6.49	252	7.22	52.5	1240	0.204	<1.91	<14.3
Scrap Area #1 (1-12") CSSA1	10/6/2016	5.8	204	4.41	19.5	673	1.11	<1.75	<13.1
Scrap Area #2 (1-12") CSSA2	10/6/2016	11.4	258	11	58.9	520	0.108	<0.987	<7.40
Scrap Area #3 (1-12") CSSA3	10/6/2016	6.69	345	13.3	41.2	2550	0.512	<2.58	<19.3
Scrap Area #4 (1-12") CSSA4	10/6/2016	12.7	282	6.63	20.2	689	0.380	<0.948	<7.11
Battery Storage Area (1-12")	10/6/2016	5.55	150	8.95	34.8	3190	0.124	<2.34	<17.5
Railroad Tracks (1-12")	10/6/2016	9.93	327	32.0	147	14,600	0.496	8.38	<41.7
¹ NE-VCP RGs - Industrial		16	100,000	890	100,000/55 ²	750	310	5,100	5,100
¹ NE-VCP RGs - Residential		0.39	3,800	18	29,000/0.29 ²	400	5.9	98	98

Notes:

Metals analysis by Method 6010C, except Arsenic by Method 7010 and Mercury by Method 7471B.

Bold results indicate sample laboratory result exceeded NDEQ action level.

< indicates less than

(2-4") = sample depth interval

This table summarizes analytes where a positive detection was reported. Refer to the laboratory reports in Appendix D for a list of parameters in the analysis

mg/kg = milligrams per kilogram

¹Nebraska Voluntary Clean-Up Program (VCP) Remediation Goals (RG) - Table 1 - Direct Contact, Soil (Industrial/Residential)

²Chromium III followed by Chromium VI

TABLE 4A
SUMMARY OF DETECTED PAHs ANALYTES IN GROUNDWATER SAMPLES
B and T Metals
1855 3rd Street
Gering, Scotts Bluff County, Nebraska
Terracon Project No. 24159093 / 05159093

Sample I.D. / Boring Number	Sample Collection Date	PAHs (mg/L)		
		Fluorene	Phenanthrene	Pyrene
GP-1	10/6/2016	<0.000132	<0.000132	<0.000132
GP-2	10/6/2016	<0.000100	<0.000100	<0.000100
GP-3	10/6/2016	<0.000119	<0.000119	<0.000119
GP-A (GP-3 Duplicate)	10/6/2016	<0.000132	<0.000132	<0.000132
GP-4	10/6/2016	<0.000119	<0.000119	<0.000119
GP-5	10/6/2016	<0.0000962	<0.0000962	<0.0000962
GP-6	10/6/2016	<0.0000943	<0.0000943	<0.0000493
GP-7	10/6/2016	<0.000100	<0.000100	<0.000100
GP-8	10/6/2016	<0.0000943	<0.0000943	<0.0000493
GP-9	10/6/2016	<0.0000943	<0.0000943	<0.0000493
Trip Blank (C13)	10/5/2016	NT	NT	NT
Field Blank	10/6/2016	<0.0000943	<0.0000943	<0.0000493
Equipment Blank	10/6/2016	<0.0000943	<0.0000943	<0.0000493
Trip Blank (8-J)	10/5/2016	NT	NT	NT
Trip Blank (17-C)	10/5/2016	NT	NT	NT
¹ NE-VCP RGs		0.37	NA	0.14

Notes:

Poly-aromatic hydrocarbons (PAHs) analysis by Method 8270 SIM.

Bold results indicate sample laboratory result exceeded NDEQ action level.

NA = Not Applicable. NDEQ regulatory level not established.

NT = Compound was not tested for that particular sample.

< indicates less than

This table summarizes analytes where a positive detection was reported. Refer to the laboratory reports in Appendix D for a list of parameters in the analysis suite.

mg/L = milligrams per liter

¹Nebraska Voluntary Clean-Up Program (VCP) Remediation Goals (RG) - Groundwater

TABLE 4B
SUMMARY OF DETECTED PAH ANALYTES IN SOIL SAMPLES
B and T Metals
1855 3rd Street
Gering, Scotts Bluff County, Nebraska
Terracon Project No. 24159093 / 05159093

Sample	Collection Date	PAHs (mg/kg)									
		Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Chrysene	Fluoranthene	Indeno (1,2,3-cd) pyrene	Phenanthrene	Pyrene
GP-1 (0-2')	10/5/2016	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111
GP-2 (0-2')	10/5/2016	0.0121	0.0181	<0.0112	0.0115	<0.0112	0.167	0.0282	<0.0112	0.0163	0.0253
GP-3 (0-2')	10/5/2016	<0.0118	<0.0118	<0.0118	<0.0118	<0.0118	<0.0118	<0.0118	<0.0118	<0.0118	<0.0118
GP-4 (0-2')	10/5/2016	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111
GP-5 (0-2')	10/5/2016	<0.117	<0.117	<0.117	<0.117	<0.117	<0.117	<0.117	<0.117	<0.117	<0.117
GP-6 (0-2')	10/5/2016	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105
GP-7 (0-2')	10/5/2016	0.403	0.613	0.306	0.410	0.268	0.470	0.527	0.232	0.158	0.488
GP-8 (0-2')	10/6/2016	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
GP-9 (0-2')	10/6/2016	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113
GP-10 (0-2')	10/6/2016	0.425	0.522	0.272	0.377	0.271	0.438	0.855	0.214	0.438	0.734
¹ NE-VCP RGs (Residential)		0.15	0.15	1.5	0.015	NA	15	780	0.15	NA	430
² NE-VCP RGs (Industrial)		21	21	210	2.1	NA	210	41,000	21	NA	17,000

NOTES:

Poly Aromatic Hydrocarbons (PAHs) analysis by Method 8270 SIM.

Bold results indicate sample laboratory result exceeded NDEQ action level.

NA = Not Applicable. NDEQ regulatory level not established.

< indicates less than

This table summarizes analytes where a positive detection was reported. Refer to the laboratory reports in Appendix D for a list of parameters in the analysis suite.

¹Nebraska Voluntary Clean-Up Program (VCP) Remediation Goals, Direct Contact Exposure Pathways- Residential

²Nebraska Voluntary Clean-Up Program (VCP) Remediation Goals, Direct Contact Exposure Pathways- Industrial

mg/kg= milligrams per kilogram

TABLE 5A
SUMMARY OF DETECTED PCB ANALYTES IN GROUNDWATER SAMPLES
B and T Metals
1855 3rd Street
Gering, Scotts Bluff County, Nebraska
Terracon Project No. 24159093 / 05159093

Sample	Collection Date	PCBs (mg/L)
		PCB-1260
GP-1	10/6/2016	<0.000976
GP-2	10/6/2016	<0.000952
GP-3	10/6/2016	<0.000833
GP-A (Duplicate of GP-3)	10/6/2016	<0.000909
GP-4	10/6/2016	<0.00105
GP-5	10/5/2016	<0.000800
GP-6	10/5/2016	<0.000769
GP-7	10/5/2016	<0.000755
GP-8	10/6/2016	<0.000755
GP-9	10/6/2016	<0.000769
TB-1 (C13)	10/5/2016	NT
FB-1	10/6/2016	<0.000769
EB-1	10/6/22016	<0.000741
TB-2 (8-J)	10/6/2016	NT
TB-3 (17-C)	10/6/2016	NT
NE-VCP RGs		0.000034

NOTES:

Polychlorinated Biphenyls (PCB) analysis by Method 8082A.

Bold results indicate sample laboratory result exceeded NDEQ action level.

NT = Compound was not tested for that particular sample.

< indicates less than

This table summarizes analytes where a positive detection was reported. Refer to the laboratory reports in Appendix D for a list of parameters in the analysis suite.

mg/L = milligrams per liter

¹Nebraska Voluntary Clean-Up Program (VCP) Remediation Goals (RG) - Groundwater

TABLE 5B
SUMMARY OF DETECTED PCB ANALYTES IN SOIL SAMPLES
B and T Metals
1855 3rd Street
Gering, Scotts Bluff County, Nebraska
Terracon Project No. 24159093 / 05159093

	Sample	Collection Date	(mg/kg)	
			PCB-1016	PCB-1260
	GP-1 (0-2')	10/5/2016	<0.0563	<0.0563
	GP-2 (0-2')	10/5/2016	0.0793	0.109
	GP-3 (0-2')	10/5/2016	0.124	2.20
	GP-4 (0-2')	10/5/2016	<0.0542	<0.0542
	GP-5 (0-2')	10/5/2016	<0.0592	<0.0592
	GP-6 (0-2')	10/5/2016	<0.0551	<0.0551
	GP-7 (0-2')	10/5/2016	0.480	0.149
	GP-8 (0-2')	10/6/2016	<0.0578	<0.0578
	GP-9 (0-2')	10/6/2016	<0.0569	<0.0569
	GP-10 (2-4')	10/6/2016	0.117	0.760
	Scrap Area #1 (0-1") CSSA1	10/6/2016	0.0966	1.02
	Scrap Area #2 (0-1") CSSA2	10/6/2016	0.401	0.580
	Scrap Area #3 (0-1") CSSA3	10/6/2016	0.299	0.430
	Scrap Area #4 (0-1") CSSA4	10/6/2016	0.352	0.335
	Battery Storage Area (0-1")	10/6/2016	1.53	0.204
	Railroad Tracks (0-1")	10/6/2016	0.661	0.930
¹ NE-VCP RGs (Industrial)			3.7	7.4
¹ NE-VCP RGs (Residential)			0.98	0.22

NOTES:

Polychlorinated Biphenyls (PCB) analysis by Method 8082A.

Bold results indicate sample laboratory result exceeded EPA or NDEQ action level.

< indicates less than

This table summarizes analytes where a positive detection was reported. Refer to the laboratory reports in Appendix D for a list of parameters in the analysis suite.

mg/L = milligrams per liter

¹Nebraska Voluntary Clean-Up Program (VCP) Remediation Goals, Direct Contact Exposure Pathway - Industrial

APPENDIX C

PROBE LOG NO. GP-01

Page 1 of 1

PROJECT: B & T Metals

CLIENT: City of Gering

SITE:

Gering, NE

GRAPHIC LOG	LOCATION See Site Diagram (Exhibit 2, Appendix A) Latitude: 41.8276389° Longitude: -103.6493889°	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	OVA/PID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
DEPTH	MATERIAL DESCRIPTION						
0.3	TOPSOIL						
	LEAN CLAY (CL) , light brown				24	0	GP-01 0-2.5
					16	0	GP-01 2.5-5
7.5	LEAN CLAY (CL) , light brown, moist				24	0	
					12	0	
10.0	LEAN CLAY (CL) , light brown, wet				24	0	
					24	0	
12.5	LEAN CLAY (CL) , light brown, moist						
15.0							
	Probe Terminated at 18 Feet						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Geoprobe

Abandonment Method:
Temporary well backfilled with hydrated bentonite chips upon completion.

See Appendices for explanation of symbols and abbreviations.

Notes:

Soil descriptions are based on visual observations made by the field crew. Actual conditions may vary.

WATER LEVEL OBSERVATIONS

10.4 ft below TOC 28 hrs AB

Terracon
15080 A Cir
Omaha, NE

Probe Started: 10/5/2016 7:15:00 AM

Probe Completed: 10/5/2016 8:15:00 AM

Drill Rig:

Driller:

Project No.: 05159093 1c

Exhibit: C-3

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 05159093 1C LOGS.GPJ TERRACON_DATATEMPLATE.GDT 12/23/16

PROBE LOG NO. GP-02

Page 1 of 1

PROJECT: B & T Metals

CLIENT: City of Gering

SITE:

Gering, NE

GRAPHIC LOG	LOCATION See Site Diagram (Exhibit 2, Appendix A) Latitude: 41.8273056° Longitude: -103.6496667°	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	OVAPID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
DEPTH	MATERIAL DESCRIPTION						
0.3	TOPSOIL, with pieces of wood						
	LEAN CLAY (CL), light brown				24	0	GP-02 0-2.5
					24	0	GP-02 2.5-5
5.0	LEAN CLAY WITH SAND (CL), light brown	5			30	0	
7.5	LEAN CLAY WITH SAND (CL), light brown, moist				24	0	
10.0	LEAN CLAY WITH SAND (CL), light brown, wet	10			30	0	
15.0		15			24	0	
	Probe Terminated at 18 Feet						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Geoprobe

Abandonment Method:
Temporary well backfilled with hydrated bentonite chips upon completion.

See Appendices for explanation of symbols and abbreviations.

Notes:

Soil descriptions are based on visual observations made by the field crew. Actual conditions may vary.

WATER LEVEL OBSERVATIONS

11.8 ft below TOC 24 hrs AB

Terracon
15080 A Cir
Omaha, NE

Probe Started: 10/5/2016 9:30:00

Probe Completed: 10/5/2016 10:00:00 AM

Drill Rig:

Driller:

Project No.: 05159093 1c

Exhibit: C-4

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 05159093 1C LOGS.GPJ TERRACON_DATATEMPLATE.GDT 12/23/16

PROBE LOG NO. GP-03

Page 1 of 1

PROJECT: B & T Metals

CLIENT: City of Gering

SITE:

Gering, NE

GRAPHIC LOG	LOCATION See Site Diagram (Exhibit 2, Appendix A) Latitude: 41.8275° Longitude: -103.6498333°	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	OVA/ID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
DEPTH	MATERIAL DESCRIPTION						
0.7	TOPSOIL , with rocks						
	LEAN CLAY (CL) , light brown				24	0	GP-03 0-2.5
					20	0	GP-03 2.5-5
	LEAN CLAY WITH SAND (CL) , light brown	5			24	0	
7.5	LEAN CLAY WITH SAND (CL) , light brown, moist				12	0	
10.0	LEAN CLAY WITH SAND (CL) , with sand, light brown, wet	10			24	0	
15.0		15			20	0	
	Probe Terminated at 18 Feet						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Geoprobe

Abandonment Method:
Temporary well backfilled with hydrated bentonite chips upon completion.

See Appendices for explanation of symbols and abbreviations.

Notes:

Soil descriptions are based on visual observations made by the field crew. Actual conditions may vary.

WATER LEVEL OBSERVATIONS

12 ft while drilling

Terracon

15080 A Cir
Omaha, NE

Probe Started: 10/5/2016 8:45:00

Probe Completed: 10/5/2016 9:20:00 AM

Drill Rig:

Driller:

Project No.: 05159093 1c

Exhibit: C-5

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 05159093 1C LOGS.GPJ TERRACON_DATATEMPLATE.GDT 12/23/16

PROBE LOG NO. GP-04

Page 1 of 1

PROJECT: B & T Metals

CLIENT: City of Gering

SITE:

Gering, NE

GRAPHIC LOG	LOCATION See Site Diagram (Exhibit 2, Appendix A) Latitude: 41.8274167° Longitude: -103.6501667°	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	OVA/PID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
DEPTH	MATERIAL DESCRIPTION						
0.5	TOPSOIL , with rocks						
	LEAN CLAY (CL) , light brown				24	0	GP-04 0-2.5
					12	0	GP-04 2.5-5
7.5	LEAN CLAY (CL) , light brown, moist				24	0	
					12	0	
10.0	LEAN CLAY (CL) , dark brown, wet				24	0	
					12	0	
12.5	LEAN CLAY WITH SAND (CL) , light brown, wet						
18.0	Probe Terminated at 18 Feet						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Geoprobe

Abandonment Method:
Temporary wellb backfilled with hydrated bentonite chips upon completion.

See Appendices for explanation of symbols and abbreviations.

Notes:

Soil descriptions are based on visual observations made by the field crew. Actual conditions may vary.

WATER LEVEL OBSERVATIONS

▽ 13.9 ft below TOC 25.5 hrs AB

Terracon
15080 A Cir
Omaha, NE

Probe Started: 10/5/2016 10:25:00 Probe Completed: 10/5/2016 11:00:00 AM

Drill Rig:

Driller:

Project No.: 05159093 1c

Exhibit: C-6

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 05159093 1c LOGS.GPJ TERRACON_DATATEMPLATE.GDT 12/23/16

PROBE LOG NO. GP-05

Page 1 of 1

PROJECT: B & T Metals

CLIENT: City of Gering

SITE:

Gering, NE

GRAPHIC LOG	LOCATION See Site Diagram (Exhibit 2, Appendix A)	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	OVA/PID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH MATERIAL DESCRIPTION						
	0.3 TOPSOIL						
	LEAN CLAY (CL) , light brown				24	0	GP-05 0-2.5
	2.5						
	LEAN CLAY (CL) , with rocks, light brown				12	0	GP-05 2.5-5
	5.0						
	LEAN CLAY (CL) , light brown	5			24	0	
	7.5						
	LEAN CLAY (CL) , light brown, moist				24	0	
	10.0						
	LEAN CLAY WITH SAND (CL) , light brown, wet	10			24	0	
	15.0				20	0	
		15					
	Probe Terminated at 18 Feet						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Geoprobe

Abandonment Method:
Temporary well backfilled with hydrated bentonite chips upon completion.

See Appendices for explanation of symbols and abbreviations.

Notes:

Soil descriptions are based on visual observations made by the field crew. Actual conditions may vary.

WATER LEVEL OBSERVATIONS

12 ft while drilling

Terracon
15080 A Cir
Omaha, NE

Probe Started: 10/5/2016 1:00:00

Probe Completed: 10/5/2016 1:40:00 PM

Drill Rig:

Driller:

Project No.: 05159093 1c

Exhibit: C-7

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 05159093 1C LOGS.GPJ TERRACON_DATATEMPLATE.GDT 12/23/16

PROBE LOG NO. GP-06

Page 1 of 1

PROJECT: B & T Metals

CLIENT: City of Gering

SITE:

Gering, NE

GRAPHIC LOG	LOCATION See Site Diagram (Exhibit 2, Appendix A) Latitude: 41.8276944° Longitude: -103.6495°	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	OVA/PID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
DEPTH	MATERIAL DESCRIPTION						
0.5	TOPSOIL						
	LEAN CLAY (CL) , light brown				24	0	GP-06 0-2.5
					12	0	GP-06 2.5-5
7.5	LEAN CLAY (CL) , light brown, moist				24	0	
					12	0	
10.0	LEAN CLAY WITH SAND (CL) , light brown, wet				24	0	
					16	0	
	Probe Terminated at 18 Feet						
23.0							

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Geoprobe

Abandonment Method:
Temporary well backfilled with hydrated bentonite chips upon completion.

See Appendices for explanation of symbols and abbreviations.

Notes:

Soil descriptions are based on visual observations made by the field crew. Actual conditions may vary.

WATER LEVEL OBSERVATIONS

11 ft while drilling

Terracon

15080 A Cir
Omaha, NE

Probe Started: 10/5/2016 3:10:00

Probe Completed: 10/5/2016 4:00:00 PM

Drill Rig:

Driller:

Project No.: 05159093 1c

Exhibit: C-8

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 05159093 1C LOGS.GPJ TERRACON_DATATEMPLATE.GDT 12/23/16

PROBE LOG NO. GP-07

Page 1 of 1

PROJECT: B & T Metals

CLIENT: City of Gering

SITE:

Gering, NE

GRAPHIC LOG	LOCATION See Site Diagram (Exhibit 2, Appendix A) Latitude: 41.8275833° Longitude: -103.6504444°	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	OVA/ID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
DEPTH	MATERIAL DESCRIPTION						
0.7	TOPSOIL , with rubble						
	LEAN CLAY (CL) , light brown				24	0	GP-07 0-2.5
					12	0	GP-07 2.5-5
7.5	LEAN CLAY (CL) , light brown, moist				24	0	
					24	0	
10.0	LEAN CLAY WITH SAND (CL) , with sand, light brown, wet				24	0	
					24	0	
15.0					24	0	
	Probe Terminated at 18 Feet						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Geoprobe

Abandonment Method:
Temporary well backfilled with hydrated bentonite chips upon completion.

See Appendices for explanation of symbols and abbreviations.

Notes:

Soil descriptions are based on visual observations made by the field crew. Actual conditions may vary.

WATER LEVEL OBSERVATIONS

14 ft while drilling

Terracon
15080 A Cir
Omaha, NE

Probe Started: 10/5/2016 4:45:00

Probe Completed: 10/5/2016 5:05:00 PM

Drill Rig:

Driller:

Project No.: 05159093 1c

Exhibit: C-9

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 05159093 1C LOGS.GPJ TERRACON_DATATEMPLATE.GDT 12/23/16

PROBE LOG NO. GP-08

Page 1 of 1

PROJECT: B & T Metals

CLIENT: City of Gering

SITE:

Gering, NE

GRAPHIC LOG	LOCATION See Site Diagram (Exhibit 2, Appendix A) Latitude: 41.8276667° Longitude: -103.6501389°	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	OVAPID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
DEPTH	MATERIAL DESCRIPTION						
0.5	PORTLAND CEMENT CONCRETE						
	LEAN CLAY (CL) , light brown				24	0	GP-08 0-2.5
					12	0	GP-08 2.5-5
7.5	LEAN CLAY (CL) , light brown, moist				24	0	
					12	0	
10.0	LEAN CLAY WITH SAND (CL) , light brown, wet				24	0	
					24	0	
15.0					24	0	
	Probe Terminated at 18 Feet						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Geoprobe

Abandonment Method:
Temporary well backfilled with hydrated bentonite chips upon completion.

See Appendices for explanation of symbols and abbreviations.

Notes:

Soil descriptions are based on visual observations made by the field crew. Actual conditions may vary.

WATER LEVEL OBSERVATIONS

13 ft while drilling

Terracon

15080 A Cir
Omaha, NE

Probe Started: 10/6/2016 7:35:00

Probe Completed: 10/6/2016 8:05:00 AM

Drill Rig:

Driller:

Project No.: 05159093 1c

Exhibit: C-10

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 05159093 1c LOGS.GPJ TERRACON_DATATEMPLATE.GDT 12/23/16

PROBE LOG NO. GP-09

Page 1 of 1

PROJECT: B & T Metals

CLIENT: City of Gering

SITE:

Gering, NE

GRAPHIC LOG	LOCATION See Site Diagram (Exhibit 2, Appendix A) Latitude: 41.8273889° Longitude: -103.6484444°	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	OVA/PID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
DEPTH	MATERIAL DESCRIPTION						
0.5	LEAN CLAY (CL), with organics & rubble, light brown						
	LEAN CLAY (CL), light brown				24	0	GP-09 0-2.5
					12	0	GP-09 2.5-5
7.5	LEAN CLAY (CL), light brown, moist				24	0	
					12	0	
10.0	LEAN CLAY WITH SAND (CL), light brown, wet				24	0	
					24	0	
15.0							
	Probe Terminated at 18 Feet						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Geoprobe

Abandonment Method:
Temporary well backfilled with hydrated bentonite chips upon completion.

See Appendices for explanation of symbols and abbreviations.

Notes:

Soil descriptions are based on visual observations made by the field crew. Actual conditions may vary.

WATER LEVEL OBSERVATIONS

25 ft while drilling

Terracon
15080 A Cir
Omaha, NE

Probe Started: 10/6/2016 8:45:00 AM Probe Completed: 10/6/2016 9:30:00 AM

Drill Rig:

Driller:

Project No.: 05159093 1c

Exhibit: C-11

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 05159093 1C LOGS.GPJ TERRACON_DATATEMPLATE.GDT 12/23/16

PROBE LOG NO. GP-10

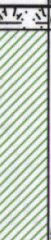
Page 1 of 1

PROJECT: B & T Metals

CLIENT: City of Gering

SITE:

Gering, NE

GRAPHIC LOG	LOCATION See Site Diagram (Exhibit 2, Appendix A)		DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	OVA/PID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
	Latitude: 41.8275556° Longitude: -103.6498889°							
	DEPTH	MATERIAL DESCRIPTION						
	0.5	TOPSOIL, with debris	5			24	0	GP-10 0-2.5
		LEAN CLAY (CL), light brown						
	5.0	Probe Terminated at 5 Feet						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Geoprobe

Abandonment Method:
Temporary well backfilled with hydrated bentonite chips upon completion.

See Appendices for explanation of symbols and abbreviations.

Notes:

Soil descriptions are based on visual observations made by the field crew. Actual conditions may vary.

WATER LEVEL OBSERVATIONS

Terracon

15080 A Cir
Omaha, NE

Probe Started: 10/6/2016 9:55:00 Probe Completed: 10/6/2016 10:05:00 AM

Drill Rig:

Driller:

Project No.: 05159093 1c

Exhibit: C-12

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 05159093 1C LOGS.GPJ TERRACON_DATATEMPLATE.GDT 12/23/16

APPENDIX D

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-91286-1
TestAmerica Sample Delivery Group: 05159093
Client Project/Site: B & T Metals - Gering, NE

For:
Terracon Consulting Eng & Scientists
15080 A Circle
Omaha, Nebraska 68144

Attn: Megan Hughes



Authorized for release by:
10/20/2016 2:50:29 PM

Shawn Hayes, Project Manager II
(319)277-2401
shawn.hayes@testamericainc.com

LINKS

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results through

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The
Expert**

Visit us at:

www.testamericainc.com

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

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

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Job ID: 310-91286-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-91286-1

Comments

No additional comments.

Receipt

The samples were received on 10/11/2016 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 1.6° C.

GC/MS VOA

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

GC/MS Semi VOA

Method(s) 8270D SIM: The following samples were diluted due to the nature of the sample matrix: GP-1 0-2' (310-91286-1), GP-4 0-2' (310-91286-7), GP-5 0-2' (310-91286-9), GP-6 0-2' (310-91286-11), GP-7 0-2' (310-91286-13), GP-9 0-2' (310-91286-17) and GP-10 0-2' (310-91286-19). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method(s) 8082A: Surrogate recovery for the following sample was outside control limits: GP-10 0-2' (310-91286-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082A: The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: GP-3 0-2' (310-91286-5), GP-7 0-2' (310-91286-13), GP-10 0-2' (310-91286-19), Scrap Area #1 (0-1") (CSSA1) (310-91286-21), Scrap Area #2 (0-1") (CSSA2) (310-91286-23), Scrap Area #3 (0-1") (CSSA3) (310-91286-25), Scrap Area #4 (0-1") (CSSA4) (310-91286-27), Battery Storage Area 0-1" (310-91286-29), and Railroad Tracks 0-1" (310-91286-31). The samples have been reported as a mixture of Aroclors PCB-1016 and PCB-1260. Due to the poor match with the Aroclor standard, there is increased qualitative and quantitative uncertainty associated with this result.

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

Metals

Method(s) 6010C: The following sample was diluted due to the presence of an interferent: GP-4 0-2' (310-91286-7). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-91286-1	GP-1 0-2'	Soil	10/05/16 07:55	10/11/16 10:25
310-91286-2	GP-1 2-4'	Soil	10/05/16 07:55	10/11/16 10:25
310-91286-3	GP-2 0-2'	Soil	10/05/16 09:55	10/11/16 10:25
310-91286-4	GP-2 2-4'	Soil	10/05/16 09:55	10/11/16 10:25
310-91286-5	GP-3 0-2'	Soil	10/05/16 09:00	10/11/16 10:25
310-91286-6	GP-3 2-4'	Soil	10/05/16 09:00	10/11/16 10:25
310-91286-7	GP-4 0-2'	Soil	10/05/16 10:40	10/11/16 10:25
310-91286-8	GP-4 2-4'	Soil	10/05/16 10:40	10/11/16 10:25
310-91286-9	GP-5 0-2'	Soil	10/05/16 13:30	10/11/16 10:25
310-91286-10	GP-5 2-4'	Soil	10/05/16 13:30	10/11/16 10:25
310-91286-11	GP-6 0-2'	Soil	10/05/16 15:15	10/11/16 10:25
310-91286-12	GP-6 2-4'	Soil	10/05/16 15:15	10/11/16 10:25
310-91286-13	GP-7 0-2'	Soil	10/05/16 17:00	10/11/16 10:25
310-91286-14	GP-7 2-4'	Soil	10/05/16 17:00	10/11/16 10:25
310-91286-15	GP-8 0-2'	Soil	10/06/16 07:55	10/11/16 10:25
310-91286-16	GP-8 2-4'	Soil	10/06/16 07:55	10/11/16 10:25
310-91286-17	GP-9 0-2'	Soil	10/06/16 08:55	10/11/16 10:25
310-91286-18	GP-9 2-4'	Soil	10/06/16 08:55	10/11/16 10:25
310-91286-19	GP-10 0-2'	Soil	10/06/16 10:05	10/11/16 10:25
310-91286-20	GP-10 2-4'	Soil	10/06/16 10:05	10/11/16 10:25
310-91286-21	Scrap Area #1 (0-1") (CSSA1)	Soil	10/06/16 10:10	10/11/16 10:25
310-91286-22	Scrap Area #1 (1-12") (CSSA1)	Soil	10/06/16 10:10	10/11/16 10:25
310-91286-23	Scrap Area #2 (0-1") (CSSA2)	Soil	10/06/16 10:50	10/11/16 10:25
310-91286-24	Scrap Area #2 (1-12") (CSSA2)	Soil	10/06/16 10:50	10/11/16 10:25
310-91286-25	Scrap Area #3 (0-1") (CSSA3)	Soil	10/06/16 10:30	10/11/16 10:25
310-91286-26	Scrap Area #3 (1-12") (CSSA3)	Soil	10/06/16 10:30	10/11/16 10:25
310-91286-27	Scrap Area #4 (0-1") (CSSA4)	Soil	10/06/16 11:10	10/11/16 10:25
310-91286-28	Scrap Area #4 (1-12") (CSSA4)	Soil	10/06/16 11:10	10/11/16 10:25
310-91286-29	Battery Storage Area 0-1"	Soil	10/06/16 11:40	10/11/16 10:25
310-91286-30	Battery Storage Area 1-12"	Soil	10/06/16 11:40	10/11/16 10:25
310-91286-31	Railroad Tracks 0-1"	Soil	10/06/16 11:25	10/11/16 10:25
310-91286-32	Railroad Tracks 1-12"	Soil	10/06/16 11:25	10/11/16 10:25
310-91286-33	Core Cuttings	Soil	10/06/16 15:15	10/11/16 10:25

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-1 0-2'

Lab Sample ID: 310-91286-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	207	F1	0.440		mg/Kg	1	*	6010C	Total/NA
Chromium	11.9		0.880		mg/Kg	1	*	6010C	Total/NA
Lead	29.2	F1 F2	4.40		mg/Kg	1	*	6010C	Total/NA
Arsenic	3.87		0.534		mg/Kg	12	*	7010	Total/NA

Client Sample ID: GP-1 2-4'

Lab Sample ID: 310-91286-2

☐ No Detections.

Client Sample ID: GP-2 0-2'

Lab Sample ID: 310-91286-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0121		0.0112		mg/Kg	1	*	8270D SIM	Total/NA
Benzo[a]pyrene	0.0115		0.0112		mg/Kg	1	*	8270D SIM	Total/NA
Benzo[b]fluoranthene	0.0181		0.0112		mg/Kg	1	*	8270D SIM	Total/NA
Chrysene	0.0167		0.0112		mg/Kg	1	*	8270D SIM	Total/NA
Fluoranthene	0.0282		0.0112		mg/Kg	1	*	8270D SIM	Total/NA
Phenanthrene	0.0163		0.0112		mg/Kg	1	*	8270D SIM	Total/NA
Pyrene	0.0253		0.0112		mg/Kg	1	*	8270D SIM	Total/NA
PCB-1016	0.0793		0.0571		mg/Kg	1	*	8082A	Total/NA
PCB-1260	0.109		0.0571		mg/Kg	1	*	8082A	Total/NA
Barium	185		0.842		mg/Kg	2	*	6010C	Total/NA
Chromium	12.0		1.68		mg/Kg	2	*	6010C	Total/NA
Lead	20.5		8.42		mg/Kg	2	*	6010C	Total/NA
Arsenic	3.95		0.552		mg/Kg	12	*	7010	Total/NA

Client Sample ID: GP-2 2-4'

Lab Sample ID: 310-91286-4

☐ No Detections.

Client Sample ID: GP-3 0-2'

Lab Sample ID: 310-91286-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1016	0.124		0.0588		mg/Kg	1	*	8082A	Total/NA
PCB-1260	2.20		0.588		mg/Kg	10	*	8082A	Total/NA
Barium	206		0.502		mg/Kg	1	*	6010C	Total/NA
Chromium	11.0		1.00		mg/Kg	1	*	6010C	Total/NA
Lead	175		5.02		mg/Kg	1	*	6010C	Total/NA
Arsenic	3.89		0.574		mg/Kg	12	*	7010	Total/NA

Client Sample ID: GP-3 2-4'

Lab Sample ID: 310-91286-6

☐ No Detections.

Client Sample ID: GP-4 0-2'

Lab Sample ID: 310-91286-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	139		1.28		mg/Kg	3	*	6010C	Total/NA
Cadmium	2.99		2.57		mg/Kg	3	*	6010C	Total/NA
Chromium	12.3		2.57		mg/Kg	3	*	6010C	Total/NA
Lead	196		12.8		mg/Kg	3	*	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-4 0-2' (Continued)

Lab Sample ID: 310-91286-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.51		0.479		mg/Kg	12	*	7010	Total/NA
Mercury	0.0544		0.0205		mg/Kg	1	*	7471B	Total/NA

Client Sample ID: GP-4 2-4'

Lab Sample ID: 310-91286-8

No Detections.

Client Sample ID: GP-5 0-2'

Lab Sample ID: 310-91286-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	200		0.474		mg/Kg	1	*	6010C	Total/NA
Chromium	14.3		0.947		mg/Kg	1	*	6010C	Total/NA
Lead	43.0		4.74		mg/Kg	1	*	6010C	Total/NA
Arsenic	5.15		0.534		mg/Kg	12	*	7010	Total/NA

Client Sample ID: GP-5 2-4'

Lab Sample ID: 310-91286-10

No Detections.

Client Sample ID: GP-6 0-2'

Lab Sample ID: 310-91286-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	188		0.445		mg/Kg	1	*	6010C	Total/NA
Cadmium	1.67		0.890		mg/Kg	1	*	6010C	Total/NA
Chromium	12.9		0.890		mg/Kg	1	*	6010C	Total/NA
Lead	688		4.45		mg/Kg	1	*	6010C	Total/NA
Arsenic	5.27		0.584		mg/Kg	12	*	7010	Total/NA
Mercury	0.0691		0.0207		mg/Kg	1	*	7471B	Total/NA

Client Sample ID: GP-6 2-4'

Lab Sample ID: 310-91286-12

No Detections.

Client Sample ID: GP-7 0-2'

Lab Sample ID: 310-91286-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.403		0.109		mg/Kg	10	*	8270D SIM	Total/NA
Benzo[a]pyrene	0.410		0.109		mg/Kg	10	*	8270D SIM	Total/NA
Benzo[b]fluoranthene	0.613		0.109		mg/Kg	10	*	8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.268		0.109		mg/Kg	10	*	8270D SIM	Total/NA
Benzo[k]fluoranthene	0.306		0.109		mg/Kg	10	*	8270D SIM	Total/NA
Chrysene	0.470		0.109		mg/Kg	10	*	8270D SIM	Total/NA
Fluoranthene	0.527		0.109		mg/Kg	10	*	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.232		0.109		mg/Kg	10	*	8270D SIM	Total/NA
Phenanthrene	0.158		0.109		mg/Kg	10	*	8270D SIM	Total/NA
Pyrene	0.488		0.109		mg/Kg	10	*	8270D SIM	Total/NA
PCB-1016	0.480		0.281		mg/Kg	5	*	8082A	Total/NA
PCB-1260	0.149		0.0561		mg/Kg	1	*	8082A	Total/NA
Barium	200		0.438		mg/Kg	1	*	6010C	Total/NA
Cadmium	3.02		0.877		mg/Kg	1	*	6010C	Total/NA
Chromium	14.2		0.877		mg/Kg	1	*	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-7 0-2' (Continued)

Lab Sample ID: 310-91286-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	386		4.38		mg/Kg	1	*	6010C	Total/NA
Arsenic	4.27		0.549		mg/Kg	12	*	7010	Total/NA
Mercury	0.0558		0.0221		mg/Kg	1	*	7471B	Total/NA

Client Sample ID: GP-7 2-4'

Lab Sample ID: 310-91286-14

☐ No Detections.

Client Sample ID: GP-8 0-2'

Lab Sample ID: 310-91286-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	208		0.436		mg/Kg	1	*	6010C	Total/NA
Chromium	10.9		0.872		mg/Kg	1	*	6010C	Total/NA
Lead	33.2		4.36		mg/Kg	1	*	6010C	Total/NA

Client Sample ID: GP-8 2-4'

Lab Sample ID: 310-91286-16

☐ No Detections.

Client Sample ID: GP-9 0-2'

Lab Sample ID: 310-91286-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	197		0.483		mg/Kg	1	*	6010C	Total/NA
Chromium	11.4		0.966		mg/Kg	1	*	6010C	Total/NA
Lead	24.7		4.83		mg/Kg	1	*	6010C	Total/NA
Arsenic	4.61		0.583		mg/Kg	12	*	7010	Total/NA

Client Sample ID: GP-9 2-4'

Lab Sample ID: 310-91286-18

☐ No Detections.

Client Sample ID: GP-10 0-2'

Lab Sample ID: 310-91286-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.425		0.108		mg/Kg	10	*	8270D SIM	Total/NA
Benzo[a]pyrene	0.377		0.108		mg/Kg	10	*	8270D SIM	Total/NA
Benzo[b]fluoranthene	0.522		0.108		mg/Kg	10	*	8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.271		0.108		mg/Kg	10	*	8270D SIM	Total/NA
Benzo[k]fluoranthene	0.272		0.108		mg/Kg	10	*	8270D SIM	Total/NA
Chrysene	0.438		0.108		mg/Kg	10	*	8270D SIM	Total/NA
Fluoranthene	0.855		0.108		mg/Kg	10	*	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.214		0.108		mg/Kg	10	*	8270D SIM	Total/NA
Phenanthrene	0.438		0.108		mg/Kg	10	*	8270D SIM	Total/NA
Pyrene	0.734		0.108		mg/Kg	10	*	8270D SIM	Total/NA
PCB-1016	0.117		0.0549		mg/Kg	1	*	8082A	Total/NA
PCB-1260	0.760		0.110		mg/Kg	2	*	8082A	Total/NA
Barium	252		0.953		mg/Kg	2	*	6010C	Total/NA
Cadmium	7.22		1.91		mg/Kg	2	*	6010C	Total/NA
Chromium	52.5		1.91		mg/Kg	2	*	6010C	Total/NA
Lead	1240		9.53		mg/Kg	2	*	6010C	Total/NA
Arsenic	6.49		2.47		mg/Kg	60	*	7010	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-10 0-2' (Continued)

Lab Sample ID: 310-91286-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.204		0.0219		mg/Kg	1	*	7471B	Total/NA

Client Sample ID: GP-10 2-4'

Lab Sample ID: 310-91286-20

No Detections.

Client Sample ID: Scrap Area #1 (0-1") (CSSA1)

Lab Sample ID: 310-91286-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1016	0.0966		0.0555		mg/Kg	1	*	8082A	Total/NA
PCB-1260	1.02		0.111		mg/Kg	2	*	8082A	Total/NA

Client Sample ID: Scrap Area #1 (1-12") (CSSA1)

Lab Sample ID: 310-91286-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	204		0.874		mg/Kg	2	*	6010C	Total/NA
Cadmium	4.41		1.75		mg/Kg	2	*	6010C	Total/NA
Chromium	19.5		1.75		mg/Kg	2	*	6010C	Total/NA
Lead	673		8.74		mg/Kg	2	*	6010C	Total/NA
Arsenic	5.80		0.579		mg/Kg	12	*	7010	Total/NA
Mercury	1.11		0.117		mg/Kg	5	*	7471B	Total/NA

Client Sample ID: Scrap Area #2 (0-1") (CSSA2)

Lab Sample ID: 310-91286-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1016	0.401		0.112		mg/Kg	2	*	8082A	Total/NA
PCB-1260	0.580		0.112		mg/Kg	2	*	8082A	Total/NA

Client Sample ID: Scrap Area #2 (1-12") (CSSA2)

Lab Sample ID: 310-91286-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	258		0.493		mg/Kg	1	*	6010C	Total/NA
Cadmium	11.0		0.987		mg/Kg	1	*	6010C	Total/NA
Chromium	58.9		0.987		mg/Kg	1	*	6010C	Total/NA
Lead	520		4.93		mg/Kg	1	*	6010C	Total/NA
Arsenic	11.4		0.605		mg/Kg	12	*	7010	Total/NA
Mercury	0.108		0.0215		mg/Kg	1	*	7471B	Total/NA

Client Sample ID: Scrap Area #3 (0-1") (CSSA3)

Lab Sample ID: 310-91286-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1016	0.299		0.116		mg/Kg	2	*	8082A	Total/NA
PCB-1260	0.430		0.116		mg/Kg	2	*	8082A	Total/NA

Client Sample ID: Scrap Area #3 (1-12") (CSSA3)

Lab Sample ID: 310-91286-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	345		1.29		mg/Kg	3	*	6010C	Total/NA
Cadmium	13.3		2.58		mg/Kg	3	*	6010C	Total/NA
Chromium	41.2		2.58		mg/Kg	3	*	6010C	Total/NA
Lead	2550		12.9		mg/Kg	3	*	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: Scrap Area #3 (1-12") (CSSA3) (Continued)

Lab Sample ID: 310-91286-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.69		0.561		mg/Kg	12	✱	7010	Total/NA
Mercury	0.512		0.0208		mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: Scrap Area #4 (0-1") (CSSA4)

Lab Sample ID: 310-91286-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1016	0.352		0.277		mg/Kg	5	✱	8082A	Total/NA
PCB-1260	0.335	p	0.277		mg/Kg	5	✱	8082A	Total/NA

Client Sample ID: Scrap Area #4 (1-12") (CSSA4)

Lab Sample ID: 310-91286-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	282		0.474		mg/Kg	1	✱	6010C	Total/NA
Cadmium	6.63		0.948		mg/Kg	1	✱	6010C	Total/NA
Chromium	20.2		0.948		mg/Kg	1	✱	6010C	Total/NA
Lead	689		4.74		mg/Kg	1	✱	6010C	Total/NA
Arsenic	12.7		0.546		mg/Kg	12	✱	7010	Total/NA
Mercury	0.380		0.0199		mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: Battery Storage Area 0-1"

Lab Sample ID: 310-91286-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1016	1.53		0.261		mg/Kg	5	✱	8082A	Total/NA
PCB-1260	0.204		0.0522		mg/Kg	1	✱	8082A	Total/NA

Client Sample ID: Battery Storage Area 1-12"

Lab Sample ID: 310-91286-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	150		1.17		mg/Kg	3	✱	6010C	Total/NA
Cadmium	8.95		2.34		mg/Kg	3	✱	6010C	Total/NA
Chromium	34.8		2.34		mg/Kg	3	✱	6010C	Total/NA
Lead	3190		11.7		mg/Kg	3	✱	6010C	Total/NA
Arsenic	5.55		0.490		mg/Kg	12	✱	7010	Total/NA
Mercury	0.124		0.0196		mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: Railroad Tracks 0-1"

Lab Sample ID: 310-91286-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1016	0.661	F1	0.279		mg/Kg	5	✱	8082A	Total/NA
PCB-1260	0.930		0.279		mg/Kg	5	✱	8082A	Total/NA

Client Sample ID: Railroad Tracks 1-12"

Lab Sample ID: 310-91286-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	327	F1 F2	2.78		mg/Kg	7	✱	6010C	Total/NA
Cadmium	32.0		5.56		mg/Kg	7	✱	6010C	Total/NA
Chromium	147	F1	5.56		mg/Kg	7	✱	6010C	Total/NA
Lead	14600	F2	27.8		mg/Kg	7	✱	6010C	Total/NA
Silver	8.38		5.56		mg/Kg	7	✱	6010C	Total/NA
Arsenic	9.93	F1 F2	4.93		mg/Kg	120	✱	7010	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: Railroad Tracks 1-12" (Continued)

Lab Sample ID: 310-91286-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Mercury	0.496	F1	0.0203		mg/Kg	1		*	7471B	Total/NA

Client Sample ID: Core Cuttings

Lab Sample ID: 310-91286-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
PCB-1260	0.221		0.0665		mg/Kg	1		*	8082A	Total/NA
Barium	277		1.45		mg/Kg	3		*	6010C	Total/NA
Chromium	13.8		2.90		mg/Kg	3		*	6010C	Total/NA
Lead	110		14.5		mg/Kg	3		*	6010C	Total/NA
Arsenic	5.08		0.613		mg/Kg	12		*	7010	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-1 0-2'

Date Collected: 10/05/16 07:55

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-1

Matrix: Soil

Percent Solids: 87.6

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.111		0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Acenaphthylene	<0.111		0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Anthracene	<0.111		0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Benzo[a]anthracene	<0.111	F1	0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Benzo[a]pyrene	<0.111	F1	0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Benzo[b]fluoranthene	<0.111	F1	0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Benzo[g,h,i]perylene	<0.111	F1	0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Benzo[k]fluoranthene	<0.111	F1	0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Chrysene	<0.111	F1	0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Dibenz[a,h]anthracene	<0.111		0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Fluoranthene	<0.111	F2 F1	0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Fluorene	<0.111		0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Indeno[1,2,3-cd]pyrene	<0.111	F1	0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
2-Methylnaphthalene	<0.111		0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Naphthalene	<0.111		0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Phenanthrene	<0.111	F2 F1	0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10
Pyrene	<0.111	F2 F1	0.111		mg/Kg	*	10/11/16 14:22	10/12/16 15:21	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	46		32 - 110	10/11/16 14:22	10/12/16 15:21	10
Nitrobenzene-d5 (Surr)	43		15 - 113	10/11/16 14:22	10/12/16 15:21	10
Terphenyl-d14 (Surr)	58		31 - 110	10/11/16 14:22	10/12/16 15:21	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0563	F2	0.0563		mg/Kg	*	10/11/16 14:16	10/12/16 18:04	1
PCB-1221	<0.0563		0.0563		mg/Kg	*	10/11/16 14:16	10/12/16 18:04	1
PCB-1232	<0.0563		0.0563		mg/Kg	*	10/11/16 14:16	10/12/16 18:04	1
PCB-1242	<0.0563		0.0563		mg/Kg	*	10/11/16 14:16	10/12/16 18:04	1
PCB-1248	<0.0563		0.0563		mg/Kg	*	10/11/16 14:16	10/12/16 18:04	1
PCB-1254	<0.0563		0.0563		mg/Kg	*	10/11/16 14:16	10/12/16 18:04	1
PCB-1260	<0.0563	F2	0.0563		mg/Kg	*	10/11/16 14:16	10/12/16 18:04	1
PCB-1268	<0.0563		0.0563		mg/Kg	*	10/11/16 14:16	10/12/16 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	35		10 - 110	10/11/16 14:16	10/12/16 18:04	1
Tetrachloro-m-xylene	33		10 - 110	10/11/16 14:16	10/12/16 18:04	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	207	F1	0.440		mg/Kg	*	10/12/16 10:00	10/13/16 21:38	1
Cadmium	<0.880		0.880		mg/Kg	*	10/12/16 10:00	10/13/16 21:38	1
Chromium	11.9		0.880		mg/Kg	*	10/12/16 10:00	10/13/16 21:38	1
Lead	29.2	F1 F2	4.40		mg/Kg	*	10/12/16 10:00	10/13/16 21:38	1
Selenium	<6.60		6.60		mg/Kg	*	10/12/16 10:00	10/13/16 21:38	1
Silver	<0.880		0.880		mg/Kg	*	10/12/16 10:00	10/13/16 21:38	1

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.87		0.534		mg/Kg	*	10/12/16 10:00	10/13/16 00:55	12

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-1 0-2'

Lab Sample ID: 310-91286-1

Date Collected: 10/05/16 07:55

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 87.6

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0214		0.0214		mg/Kg	☒	10/11/16 15:42	10/13/16 15:08	1

1

2

3

4

5

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15

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-1 2-4'

Lab Sample ID: 310-91286-2

Date Collected: 10/05/16 07:55

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.123	F1	0.123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Benzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Bromobenzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Bromochloromethane	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Bromodichloromethane	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Bromoform	<0.0247		0.0247		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Bromomethane	<0.0494		0.0494		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
2-Butanone (MEK)	<0.123		0.123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
n-Butylbenzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
sec-Butylbenzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
tert-Butylbenzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Carbon disulfide	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Carbon tetrachloride	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Chlorobenzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Chlorodibromomethane	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Chloroethane	<0.0494		0.0494		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Chloroform	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Chloromethane	<0.0494		0.0494		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
2-Chlorotoluene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
4-Chlorotoluene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,2-Dibromo-3-Chloropropane	<0.123		0.123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,2-Dibromoethane (EDB)	<0.123		0.123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Dibromomethane	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,2-Dichlorobenzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,3-Dichlorobenzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,4-Dichlorobenzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Dichlorodifluoromethane	<0.0370		0.0370		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,1-Dichloroethane	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,2-Dichloroethane	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,1-Dichloroethene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
cis-1,2-Dichloroethene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
trans-1,2-Dichloroethene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,2-Dichloropropane	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,3-Dichloropropane	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
2,2-Dichloropropane	<0.0494		0.0494		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,1-Dichloropropene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
cis-1,3-Dichloropropene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
trans-1,3-Dichloropropene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Ethylbenzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Hexachlorobutadiene	<0.0617		0.0617		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Hexane	<0.0617		0.0617		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Isopropylbenzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
p-Isopropyltoluene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Methylene Chloride	<0.123		0.123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Methyl tert-butyl ether	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Naphthalene	<0.0617		0.0617		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
N-Propylbenzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Styrene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,1,1,2-Tetrachloroethane	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-1 2-4'

Lab Sample ID: 310-91286-2

Date Collected: 10/05/16 07:55

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 89.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Tetrachloroethene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Toluene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,2,3-Trichlorobenzene	<0.0617		0.0617		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,2,4-Trichlorobenzene	<0.0617		0.0617		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,1,1-Trichloroethane	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,1,2-Trichloroethane	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Trichloroethene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Trichlorofluoromethane	<0.0494		0.0494		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,2,3-Trichloropropane	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,2,4-Trimethylbenzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
1,3,5-Trimethylbenzene	<0.0123		0.0123		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Vinyl chloride	<0.0370		0.0370		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Xylenes, Total	<0.0370		0.0370		mg/Kg	*	10/12/16 07:11	10/12/16 09:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120				10/12/16 07:11	10/12/16 09:58	1
Dibromofluoromethane (Surr)	96		80 - 120				10/12/16 07:11	10/12/16 09:58	1
Toluene-d8 (Surr)	100		80 - 120				10/12/16 07:11	10/12/16 09:58	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-2 0-2'

Date Collected: 10/05/16 09:55

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-3

Matrix: Soil

Percent Solids: 85.5

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0112		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Acenaphthylene	<0.0112		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Anthracene	<0.0112		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Benzo[a]anthracene	0.0121		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Benzo[a]pyrene	0.0115		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Benzo[b]fluoranthene	0.0181		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Benzo[g,h,i]perylene	<0.0112		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Benzo[k]fluoranthene	<0.0112		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Chrysene	0.0167		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Dibenz(a,h)anthracene	<0.0112		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Fluoranthene	0.0282		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Fluorene	<0.0112		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Indeno[1,2,3-cd]pyrene	<0.0112		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
2-Methylnaphthalene	<0.0112		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Naphthalene	<0.0112		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Phenanthrene	0.0163		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1
Pyrene	0.0253		0.0112		mg/Kg	✱	10/11/16 14:22	10/12/16 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	54		32 - 110	10/11/16 14:22	10/12/16 14:38	1
Nitrobenzene-d5 (Surr)	52		15 - 113	10/11/16 14:22	10/12/16 14:38	1
Terphenyl-d14 (Surr)	63		31 - 110	10/11/16 14:22	10/12/16 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.0793		0.0571		mg/Kg	✱	10/11/16 14:16	10/12/16 18:15	1
PCB-1221	<0.0571		0.0571		mg/Kg	✱	10/11/16 14:16	10/12/16 18:15	1
PCB-1232	<0.0571		0.0571		mg/Kg	✱	10/11/16 14:16	10/12/16 18:15	1
PCB-1242	<0.0571		0.0571		mg/Kg	✱	10/11/16 14:16	10/12/16 18:15	1
PCB-1248	<0.0571		0.0571		mg/Kg	✱	10/11/16 14:16	10/12/16 18:15	1
PCB-1254	<0.0571		0.0571		mg/Kg	✱	10/11/16 14:16	10/12/16 18:15	1
PCB-1260	0.109		0.0571		mg/Kg	✱	10/11/16 14:16	10/12/16 18:15	1
PCB-1268	<0.0571		0.0571		mg/Kg	✱	10/11/16 14:16	10/12/16 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	32		10 - 110	10/11/16 14:16	10/12/16 18:15	1
Tetrachloro-m-xylene	42		10 - 110	10/11/16 14:16	10/12/16 18:15	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	185		0.842		mg/Kg	✱	10/12/16 10:00	10/14/16 14:13	2
Cadmium	<1.68		1.68		mg/Kg	✱	10/12/16 10:00	10/14/16 14:13	2
Chromium	12.0		1.68		mg/Kg	✱	10/12/16 10:00	10/14/16 14:13	2
Lead	20.5		8.42		mg/Kg	✱	10/12/16 10:00	10/14/16 14:13	2
Selenium	<12.6		12.6		mg/Kg	✱	10/12/16 10:00	10/14/16 14:13	2
Silver	<1.68		1.68		mg/Kg	✱	10/12/16 10:00	10/14/16 14:13	2

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.95		0.552		mg/Kg	✱	10/12/16 10:00	10/13/16 01:11	12

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-2 0-2'

Lab Sample ID: 310-91286-3

Date Collected: 10/05/16 09:55

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 85.5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0213		0.0213		mg/Kg	☒	10/11/16 15:42	10/13/16 15:12	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-2 2-4'

Date Collected: 10/05/16 09:55

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-4

Matrix: Soil

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.127		0.127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Benzene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Bromobenzene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Bromochloromethane	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Bromodichloromethane	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Bromoform	<0.0255		0.0255		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Bromomethane	<0.0510		0.0510		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
2-Butanone (MEK)	<0.127		0.127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
n-Butylbenzene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
sec-Butylbenzene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
tert-Butylbenzene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Carbon disulfide	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Carbon tetrachloride	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Chlorobenzene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Chlorodibromomethane	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Chloroethane	<0.0510		0.0510		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Chloroform	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Chloromethane	<0.0510		0.0510		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
2-Chlorotoluene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
4-Chlorotoluene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
1,2-Dibromo-3-Chloropropane	<0.127		0.127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
1,2-Dibromoethane (EDB)	<0.127		0.127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Dibromomethane	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
1,2-Dichlorobenzene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
1,3-Dichlorobenzene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
1,4-Dichlorobenzene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Dichlorodifluoromethane	<0.0382		0.0382		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
1,1-Dichloroethane	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
1,2-Dichloroethane	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
1,1-Dichloroethene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
cis-1,2-Dichloroethene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
trans-1,2-Dichloroethene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
1,2-Dichloropropane	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
1,3-Dichloropropane	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
2,2-Dichloropropane	<0.0510		0.0510		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
1,1-Dichloropropene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
cis-1,3-Dichloropropene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
trans-1,3-Dichloropropene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Ethylbenzene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Hexachlorobutadiene	<0.0637		0.0637		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Hexane	<0.0637		0.0637		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Isopropylbenzene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
p-Isopropyltoluene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Methylene Chloride	<0.127		0.127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Methyl tert-butyl ether	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Naphthalene	<0.0637		0.0637		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
N-Propylbenzene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
Styrene	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1
1,1,1,2-Tetrachloroethane	<0.0127		0.0127		mg/Kg	☆	10/12/16 07:11	10/12/16 10:22	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-2 2-4'

Date Collected: 10/05/16 09:55

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-4

Matrix: Soil

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.0127		0.0127		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
Tetrachloroethene	<0.0127		0.0127		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
Toluene	<0.0127		0.0127		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
1,2,3-Trichlorobenzene	<0.0637		0.0637		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
1,2,4-Trichlorobenzene	<0.0637		0.0637		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
1,1,1-Trichloroethane	<0.0127		0.0127		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
1,1,2-Trichloroethane	<0.0127		0.0127		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
Trichloroethene	<0.0127		0.0127		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
Trichlorofluoromethane	<0.0510		0.0510		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
1,2,3-Trichloropropane	<0.0127		0.0127		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
1,2,4-Trimethylbenzene	<0.0127		0.0127		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
1,3,5-Trimethylbenzene	<0.0127		0.0127		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
Vinyl chloride	<0.0382		0.0382		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
Xylenes, Total	<0.0382		0.0382		mg/Kg	✱	10/12/16 07:11	10/12/16 10:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120				10/12/16 07:11	10/12/16 10:22	1
Dibromofluoromethane (Surr)	92		80 - 120				10/12/16 07:11	10/12/16 10:22	1
Toluene-d8 (Surr)	101		80 - 120				10/12/16 07:11	10/12/16 10:22	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-3 0-2'

Date Collected: 10/05/16 09:00

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-5

Matrix: Soil

Percent Solids: 81.9

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Acenaphthylene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Anthracene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Benzo[a]anthracene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Benzo[a]pyrene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Benzo[b]fluoranthene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Benzo[g,h,i]perylene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Benzo[k]fluoranthene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Chrysene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Dibenz(a,h)anthracene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Fluoranthene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Fluorene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Indeno[1,2,3-cd]pyrene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
2-Methylnaphthalene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Naphthalene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Phenanthrene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1
Pyrene	<0.0118		0.0118		mg/Kg	✱	10/11/16 14:22	10/12/16 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	48		32 - 110	10/11/16 14:22	10/12/16 14:59	1
Nitrobenzene-d5 (Surr)	48		15 - 113	10/11/16 14:22	10/12/16 14:59	1
Terphenyl-d14 (Surr)	53		31 - 110	10/11/16 14:22	10/12/16 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.124		0.0588		mg/Kg	✱	10/11/16 14:16	10/12/16 18:26	1
PCB-1221	<0.0588		0.0588		mg/Kg	✱	10/11/16 14:16	10/12/16 18:26	1
PCB-1232	<0.0588		0.0588		mg/Kg	✱	10/11/16 14:16	10/12/16 18:26	1
PCB-1242	<0.0588		0.0588		mg/Kg	✱	10/11/16 14:16	10/12/16 18:26	1
PCB-1248	<0.0588		0.0588		mg/Kg	✱	10/11/16 14:16	10/12/16 18:26	1
PCB-1254	<0.0588		0.0588		mg/Kg	✱	10/11/16 14:16	10/12/16 18:26	1
PCB-1260	2.20		0.588		mg/Kg	✱	10/11/16 14:16	10/17/16 10:40	10
PCB-1268	<0.0588		0.0588		mg/Kg	✱	10/11/16 14:16	10/12/16 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	33		10 - 110	10/11/16 14:16	10/12/16 18:26	1
Tetrachloro-m-xylene	36		10 - 110	10/11/16 14:16	10/12/16 18:26	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	206		0.502		mg/Kg	✱	10/12/16 10:00	10/13/16 21:46	1
Cadmium	<1.00		1.00		mg/Kg	✱	10/12/16 10:00	10/13/16 21:46	1
Chromium	11.0		1.00		mg/Kg	✱	10/12/16 10:00	10/13/16 21:46	1
Lead	175		5.02		mg/Kg	✱	10/12/16 10:00	10/13/16 21:46	1
Selenium	<7.53		7.53		mg/Kg	✱	10/12/16 10:00	10/13/16 21:46	1
Silver	<1.00		1.00		mg/Kg	✱	10/12/16 10:00	10/13/16 21:46	1

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.89		0.574		mg/Kg	✱	10/12/16 10:00	10/13/16 01:15	12

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-3 0-2'

Date Collected: 10/05/16 09:00

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-5

Matrix: Soil

Percent Solids: 81.9

Method: 7471B - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0226		0.0226		mg/Kg	☆	10/11/16 15:42	10/13/16 15:17	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-3 2-4'

Date Collected: 10/05/16 09:00

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-6

Matrix: Soil

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.135		0.135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Benzene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Bromobenzene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Bromochloromethane	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Bromodichloromethane	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Bromoform	<0.0270		0.0270		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Bromomethane	<0.0539		0.0539		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
2-Butanone (MEK)	<0.135		0.135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
n-Butylbenzene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
sec-Butylbenzene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
tert-Butylbenzene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Carbon disulfide	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Carbon tetrachloride	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Chlorobenzene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Chlorodibromomethane	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Chloroethane	<0.0539		0.0539		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Chloroform	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Chloromethane	<0.0539		0.0539		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
2-Chlorotoluene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
4-Chlorotoluene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
1,2-Dibromo-3-Chloropropane	<0.135		0.135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
1,2-Dibromoethane (EDB)	<0.135		0.135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Dibromomethane	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
1,2-Dichlorobenzene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
1,3-Dichlorobenzene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
1,4-Dichlorobenzene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Dichlorodifluoromethane	<0.0405		0.0405		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
1,1-Dichloroethane	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
1,2-Dichloroethane	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
1,1-Dichloroethene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
cis-1,2-Dichloroethene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
trans-1,2-Dichloroethene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
1,2-Dichloropropane	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
1,3-Dichloropropane	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
2,2-Dichloropropane	<0.0539		0.0539		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
1,1-Dichloropropene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
cis-1,3-Dichloropropene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
trans-1,3-Dichloropropene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Ethylbenzene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Hexachlorobutadiene	<0.0674		0.0674		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Hexane	<0.0674		0.0674		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Isopropylbenzene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
p-Isopropyltoluene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Methylene Chloride	<0.135		0.135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Methyl tert-butyl ether	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Naphthalene	<0.0674		0.0674		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
N-Propylbenzene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
Styrene	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1
1,1,1,2-Tetrachloroethane	<0.0135		0.0135		mg/Kg	☼	10/12/16 07:11	10/12/16 10:47	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-3 2-4'

Date Collected: 10/05/16 09:00

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-6

Matrix: Soil

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.0135		0.0135		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
Tetrachloroethene	<0.0135		0.0135		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
Toluene	<0.0135		0.0135		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
1,2,3-Trichlorobenzene	<0.0674		0.0674		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
1,2,4-Trichlorobenzene	<0.0674		0.0674		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
1,1,1-Trichloroethane	<0.0135		0.0135		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
1,1,2-Trichloroethane	<0.0135		0.0135		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
Trichloroethene	<0.0135		0.0135		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
Trichlorofluoromethane	<0.0539		0.0539		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
1,2,3-Trichloropropane	<0.0135		0.0135		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
1,2,4-Trimethylbenzene	<0.0135		0.0135		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
1,3,5-Trimethylbenzene	<0.0135		0.0135		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
Vinyl chloride	<0.0405		0.0405		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
Xylenes, Total	<0.0405		0.0405		mg/Kg	✱	10/12/16 07:11	10/12/16 10:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120				10/12/16 07:11	10/12/16 10:47	1
Dibromofluoromethane (Surr)	92		80 - 120				10/12/16 07:11	10/12/16 10:47	1
Toluene-d8 (Surr)	99		80 - 120				10/12/16 07:11	10/12/16 10:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-4 0-2'

Date Collected: 10/05/16 10:40

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-7

Matrix: Soil

Percent Solids: 90.3

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Acenaphthylene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Anthracene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Benzo[a]anthracene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Benzo[a]pyrene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Benzo[b]fluoranthene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Benzo[g,h,i]perylene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Benzo[k]fluoranthene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Chrysene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Dibenz[a,h]anthracene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Fluoranthene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Fluorene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Indeno[1,2,3-cd]pyrene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
2-Methylnaphthalene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Naphthalene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Phenanthrene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10
Pyrene	<0.111		0.111		mg/Kg	☆	10/11/16 14:22	10/12/16 15:42	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	51		32 - 110	10/11/16 14:22	10/12/16 15:42	10
Nitrobenzene-d5 (Surr)	45		15 - 113	10/11/16 14:22	10/12/16 15:42	10
Terphenyl-d14 (Surr)	52		31 - 110	10/11/16 14:22	10/12/16 15:42	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0542		0.0542		mg/Kg	☆	10/11/16 14:16	10/12/16 18:36	1
PCB-1221	<0.0542		0.0542		mg/Kg	☆	10/11/16 14:16	10/12/16 18:36	1
PCB-1232	<0.0542		0.0542		mg/Kg	☆	10/11/16 14:16	10/12/16 18:36	1
PCB-1242	<0.0542		0.0542		mg/Kg	☆	10/11/16 14:16	10/12/16 18:36	1
PCB-1248	<0.0542		0.0542		mg/Kg	☆	10/11/16 14:16	10/12/16 18:36	1
PCB-1254	<0.0542		0.0542		mg/Kg	☆	10/11/16 14:16	10/12/16 18:36	1
PCB-1260	<0.0542		0.0542		mg/Kg	☆	10/11/16 14:16	10/12/16 18:36	1
PCB-1268	<0.0542		0.0542		mg/Kg	☆	10/11/16 14:16	10/12/16 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	21		10 - 110	10/11/16 14:16	10/12/16 18:36	1
Tetrachloro-m-xylene	24		10 - 110	10/11/16 14:16	10/12/16 18:36	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	139		1.28		mg/Kg	☆	10/12/16 10:00	10/13/16 21:52	3
Cadmium	2.99		2.57		mg/Kg	☆	10/12/16 10:00	10/13/16 21:52	3
Chromium	12.3		2.57		mg/Kg	☆	10/12/16 10:00	10/13/16 21:52	3
Lead	196		12.8		mg/Kg	☆	10/12/16 10:00	10/13/16 21:52	3
Selenium	<19.3		19.3		mg/Kg	☆	10/12/16 10:00	10/13/16 21:52	3
Silver	<2.57		2.57		mg/Kg	☆	10/12/16 10:00	10/13/16 21:52	3

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.51		0.479		mg/Kg	☆	10/12/16 10:00	10/13/16 01:19	12

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-4 0-2'

Date Collected: 10/05/16 10:40

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-7

Matrix: Soil

Percent Solids: 90.3

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0544		0.0205		mg/Kg	✱	10/11/16 15:42	10/13/16 15:19	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-4 2-4'

Date Collected: 10/05/16 10:40

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-8

Matrix: Soil

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.125		0.125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Benzene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Bromobenzene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Bromochloromethane	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Bromodichloromethane	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Bromoform	<0.0249		0.0249		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Bromomethane	<0.0498		0.0498		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
2-Butanone (MEK)	<0.125		0.125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
n-Butylbenzene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
sec-Butylbenzene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
tert-Butylbenzene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Carbon disulfide	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Carbon tetrachloride	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Chlorobenzene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Chlorodibromomethane	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Chloroethane	<0.0498		0.0498		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Chloroform	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Chloromethane	<0.0498		0.0498		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
2-Chlorotoluene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
4-Chlorotoluene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
1,2-Dibromo-3-Chloropropane	<0.125		0.125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
1,2-Dibromoethane (EDB)	<0.125		0.125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Dibromomethane	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
1,2-Dichlorobenzene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
1,3-Dichlorobenzene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
1,4-Dichlorobenzene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Dichlorodifluoromethane	<0.0374		0.0374		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
1,1-Dichloroethane	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
1,2-Dichloroethane	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
1,1-Dichloroethene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
cis-1,2-Dichloroethene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
trans-1,2-Dichloroethene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
1,2-Dichloropropane	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
1,3-Dichloropropane	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
2,2-Dichloropropane	<0.0498		0.0498		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
1,1-Dichloropropene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
cis-1,3-Dichloropropene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
trans-1,3-Dichloropropene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Ethylbenzene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Hexachlorobutadiene	<0.0623		0.0623		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Hexane	<0.0623		0.0623		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Isopropylbenzene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
p-Isopropyltoluene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Methylene Chloride	<0.125		0.125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Methyl tert-butyl ether	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Naphthalene	<0.0623		0.0623		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
N-Propylbenzene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
Styrene	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1
1,1,1,2-Tetrachloroethane	<0.0125		0.0125		mg/Kg	☆	10/12/16 07:11	10/12/16 11:12	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-4 2-4'

Date Collected: 10/05/16 10:40

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-8

Matrix: Soil

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.0125		0.0125		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1
Tetrachloroethene	<0.0125		0.0125		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1
Toluene	<0.0125		0.0125		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1
1,2,3-Trichlorobenzene	<0.0623		0.0623		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1
1,2,4-Trichlorobenzene	<0.0623		0.0623		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1
1,1,1-Trichloroethane	<0.0125		0.0125		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1
1,1,2-Trichloroethane	<0.0125		0.0125		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1
Trichloroethene	<0.0125		0.0125		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1
Trichlorofluoromethane	<0.0498		0.0498		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1
1,2,3-Trichloropropane	<0.0125		0.0125		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1
1,2,4-Trimethylbenzene	<0.0125		0.0125		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1
1,3,5-Trimethylbenzene	<0.0125		0.0125		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1
Vinyl chloride	<0.0374		0.0374		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1
Xylenes, Total	<0.0374		0.0374		mg/Kg	✱	10/12/16 07:11	10/12/16 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120	10/12/16 07:11	10/12/16 11:12	1
Dibromofluoromethane (Surr)	93		80 - 120	10/12/16 07:11	10/12/16 11:12	1
Toluene-d8 (Surr)	100		80 - 120	10/12/16 07:11	10/12/16 11:12	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-5 0-2'

Date Collected: 10/05/16 13:30

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-9

Matrix: Soil

Percent Solids: 84.1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Acenaphthylene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Anthracene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Benzo[a]anthracene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Benzo[a]pyrene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Benzo[b]fluoranthene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Benzo[g,h,i]perylene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Benzo[k]fluoranthene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Chrysene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Dibenz[a,h]anthracene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Fluoranthene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Fluorene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Indeno[1,2,3-cd]pyrene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
2-Methylnaphthalene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Naphthalene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Phenanthrene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10
Pyrene	<0.117		0.117		mg/Kg	*	10/11/16 14:22	10/12/16 16:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	49		32 - 110	10/11/16 14:22	10/12/16 16:03	10
Nitrobenzene-d5 (Surr)	43		15 - 113	10/11/16 14:22	10/12/16 16:03	10
Terphenyl-d14 (Surr)	62		31 - 110	10/11/16 14:22	10/12/16 16:03	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0592		0.0592		mg/Kg	*	10/11/16 14:16	10/12/16 18:47	1
PCB-1221	<0.0592		0.0592		mg/Kg	*	10/11/16 14:16	10/12/16 18:47	1
PCB-1232	<0.0592		0.0592		mg/Kg	*	10/11/16 14:16	10/12/16 18:47	1
PCB-1242	<0.0592		0.0592		mg/Kg	*	10/11/16 14:16	10/12/16 18:47	1
PCB-1248	<0.0592		0.0592		mg/Kg	*	10/11/16 14:16	10/12/16 18:47	1
PCB-1254	<0.0592		0.0592		mg/Kg	*	10/11/16 14:16	10/12/16 18:47	1
PCB-1260	<0.0592		0.0592		mg/Kg	*	10/11/16 14:16	10/12/16 18:47	1
PCB-1268	<0.0592		0.0592		mg/Kg	*	10/11/16 14:16	10/12/16 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	33		10 - 110	10/11/16 14:16	10/12/16 18:47	1
Tetrachloro-m-xylene	36		10 - 110	10/11/16 14:16	10/12/16 18:47	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	200		0.474		mg/Kg	*	10/12/16 10:00	10/13/16 21:54	1
Cadmium	<0.947		0.947		mg/Kg	*	10/12/16 10:00	10/13/16 21:54	1
Chromium	14.3		0.947		mg/Kg	*	10/12/16 10:00	10/13/16 21:54	1
Lead	43.0		4.74		mg/Kg	*	10/12/16 10:00	10/13/16 21:54	1
Selenium	<7.11		7.11		mg/Kg	*	10/12/16 10:00	10/13/16 21:54	1
Silver	<0.947		0.947		mg/Kg	*	10/12/16 10:00	10/13/16 21:54	1

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.15		0.534		mg/Kg	*	10/12/16 10:00	10/13/16 01:22	12

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-5 0-2'

Lab Sample ID: 310-91286-9

Date Collected: 10/05/16 13:30

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 84.1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0207		0.0207		mg/Kg	⊗	10/11/16 15:42	10/13/16 15:20	1

1

2

3

4

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6

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TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-5 2-4'

Date Collected: 10/05/16 13:30

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-10

Matrix: Soil

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.151		0.151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Benzene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Bromobenzene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Bromochloromethane	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Bromodichloromethane	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Bromoform	<0.0302		0.0302		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Bromomethane	<0.0604		0.0604		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
2-Butanone (MEK)	<0.151		0.151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
n-Butylbenzene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
sec-Butylbenzene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
tert-Butylbenzene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Carbon disulfide	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Carbon tetrachloride	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Chlorobenzene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Chlorodibromomethane	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Chloroethane	<0.0604		0.0604		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Chloroform	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Chloromethane	<0.0604		0.0604		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
2-Chlorotoluene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
4-Chlorotoluene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
1,2-Dibromo-3-Chloropropane	<0.151		0.151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
1,2-Dibromoethane (EDB)	<0.151		0.151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Dibromomethane	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
1,2-Dichlorobenzene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
1,3-Dichlorobenzene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
1,4-Dichlorobenzene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Dichlorodifluoromethane	<0.0453		0.0453		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
1,1-Dichloroethane	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
1,2-Dichloroethane	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
1,1-Dichloroethene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
cis-1,2-Dichloroethene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
trans-1,2-Dichloroethene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
1,2-Dichloropropane	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
1,3-Dichloropropane	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
2,2-Dichloropropane	<0.0604		0.0604		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
1,1-Dichloropropene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
cis-1,3-Dichloropropene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
trans-1,3-Dichloropropene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Ethylbenzene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Hexachlorobutadiene	<0.0754		0.0754		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Hexane	<0.0754		0.0754		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Isopropylbenzene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
p-Isopropyltoluene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Methylene Chloride	<0.151		0.151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Methyl tert-butyl ether	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Naphthalene	<0.0754		0.0754		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
N-Propylbenzene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
Styrene	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1
1,1,1,2-Tetrachloroethane	<0.0151		0.0151		mg/Kg	*	10/12/16 07:11	10/12/16 11:36	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-5 2-4'

Lab Sample ID: 310-91286-10

Date Collected: 10/05/16 13:30

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 81.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.0151		0.0151		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
Tetrachloroethene	<0.0151		0.0151		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
Toluene	<0.0151		0.0151		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
1,2,3-Trichlorobenzene	<0.0754		0.0754		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
1,2,4-Trichlorobenzene	<0.0754		0.0754		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
1,1,1-Trichloroethane	<0.0151		0.0151		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
1,1,2-Trichloroethane	<0.0151		0.0151		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
Trichloroethene	<0.0151		0.0151		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
Trichlorofluoromethane	<0.0604		0.0604		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
1,2,3-Trichloropropane	<0.0151		0.0151		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
1,2,4-Trimethylbenzene	<0.0151		0.0151		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
1,3,5-Trimethylbenzene	<0.0151		0.0151		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
Vinyl chloride	<0.0453		0.0453		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
Xylenes, Total	<0.0453		0.0453		mg/Kg	✳	10/12/16 07:11	10/12/16 11:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120				10/12/16 07:11	10/12/16 11:36	1
Dibromofluoromethane (Surr)	90		80 - 120				10/12/16 07:11	10/12/16 11:36	1
Toluene-d8 (Surr)	99		80 - 120				10/12/16 07:11	10/12/16 11:36	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-6 0-2'

Date Collected: 10/05/16 15:15

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-11

Matrix: Soil

Percent Solids: 89.3

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Acenaphthene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Acenaphthylene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Anthracene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Benzo[a]anthracene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Benzo[a]pyrene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Benzo[b]fluoranthene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Benzo[g,h,i]perylene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Benzo[k]fluoranthene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Chrysene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Dibenz[a,h]anthracene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Fluoranthene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Fluorene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Indeno[1,2,3-cd]pyrene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
2-Methylnaphthalene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Naphthalene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Phenanthrene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10
Pyrene	<0.105		0.105		mg/Kg	*	10/11/16 14:22	10/12/16 16:25	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
2-Fluorobiphenyl (Surr)	49		32 - 110	10/11/16 14:22	10/12/16 16:25	10
Nitrobenzene-d5 (Surr)	43		15 - 113	10/11/16 14:22	10/12/16 16:25	10
Terphenyl-d14 (Surr)	60		31 - 110	10/11/16 14:22	10/12/16 16:25	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
PCB-1016	<0.0551		0.0551		mg/Kg	*	10/11/16 14:16	10/12/16 18:58	1
PCB-1221	<0.0551		0.0551		mg/Kg	*	10/11/16 14:16	10/12/16 18:58	1
PCB-1232	<0.0551		0.0551		mg/Kg	*	10/11/16 14:16	10/12/16 18:58	1
PCB-1242	<0.0551		0.0551		mg/Kg	*	10/11/16 14:16	10/12/16 18:58	1
PCB-1248	<0.0551		0.0551		mg/Kg	*	10/11/16 14:16	10/12/16 18:58	1
PCB-1254	<0.0551		0.0551		mg/Kg	*	10/11/16 14:16	10/12/16 18:58	1
PCB-1260	<0.0551		0.0551		mg/Kg	*	10/11/16 14:16	10/12/16 18:58	1
PCB-1268	<0.0551		0.0551		mg/Kg	*	10/11/16 14:16	10/12/16 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
DCB Decachlorobiphenyl (Surr)	43		10 - 110	10/11/16 14:16	10/12/16 18:58	1
Tetrachloro-m-xylene	40		10 - 110	10/11/16 14:16	10/12/16 18:58	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Barium	188		0.445		mg/Kg	*	10/12/16 10:00	10/13/16 21:55	1
Cadmium	1.67		0.890		mg/Kg	*	10/12/16 10:00	10/13/16 21:55	1
Chromium	12.9		0.890		mg/Kg	*	10/12/16 10:00	10/13/16 21:55	1
Lead	688		4.45		mg/Kg	*	10/12/16 10:00	10/13/16 21:55	1
Selenium	<6.68		6.68		mg/Kg	*	10/12/16 10:00	10/13/16 21:55	1
Silver	<0.890		0.890		mg/Kg	*	10/12/16 10:00	10/13/16 21:55	1

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Arsenic	5.27		0.584		mg/Kg	*	10/12/16 10:00	10/13/16 01:26	12

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-6 0-2'

Lab Sample ID: 310-91286-11

Date Collected: 10/05/16 15:15

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 89.3

Method: 7471B - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0691		0.0207		mg/Kg	⊗	10/11/16 15:42	10/13/16 15:22	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-6 2-4'

Date Collected: 10/05/16 15:15

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-12

Matrix: Soil

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.132		0.132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Benzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Bromobenzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Bromochloromethane	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Bromodichloromethane	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Bromoform	<0.0264		0.0264		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Bromomethane	<0.0528		0.0528		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
2-Butanone (MEK)	<0.132		0.132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
n-Butylbenzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
sec-Butylbenzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
tert-Butylbenzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Carbon disulfide	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Carbon tetrachloride	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Chlorobenzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Chlorodibromomethane	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Chloroethane	<0.0528		0.0528		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Chloroform	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Chloromethane	<0.0528		0.0528		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
2-Chlorotoluene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
4-Chlorotoluene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,2-Dibromo-3-Chloropropane	<0.132		0.132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,2-Dibromoethane (EDB)	<0.132		0.132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Dibromomethane	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,2-Dichlorobenzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,3-Dichlorobenzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,4-Dichlorobenzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Dichlorodifluoromethane	<0.0396		0.0396		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,1-Dichloroethane	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,2-Dichloroethane	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,1-Dichloroethene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
cis-1,2-Dichloroethene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
trans-1,2-Dichloroethene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,2-Dichloropropane	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,3-Dichloropropane	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
2,2-Dichloropropane	<0.0528		0.0528		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,1-Dichloropropene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
cis-1,3-Dichloropropene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
trans-1,3-Dichloropropene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Ethylbenzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Hexachlorobutadiene	<0.0660		0.0660		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Hexane	<0.0660		0.0660		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Isopropylbenzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
p-Isopropyltoluene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Methylene Chloride	<0.132		0.132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Methyl tert-butyl ether	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Naphthalene	<0.0660		0.0660		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
N-Propylbenzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Styrene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,1,1,2-Tetrachloroethane	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-6 2-4'

Lab Sample ID: 310-91286-12

Date Collected: 10/05/16 15:15

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 84.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Tetrachloroethene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Toluene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,2,3-Trichlorobenzene	<0.0660		0.0660		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,2,4-Trichlorobenzene	<0.0660		0.0660		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,1,1-Trichloroethane	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,1,2-Trichloroethane	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Trichloroethene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Trichlorofluoromethane	<0.0528		0.0528		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,2,3-Trichloropropane	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,2,4-Trimethylbenzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
1,3,5-Trimethylbenzene	<0.0132		0.0132		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Vinyl chloride	<0.0396		0.0396		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Xylenes, Total	<0.0396		0.0396		mg/Kg	*	10/12/16 07:11	10/12/16 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120				10/12/16 07:11	10/12/16 12:01	1
Dibromofluoromethane (Surr)	93		80 - 120				10/12/16 07:11	10/12/16 12:01	1
Toluene-d8 (Surr)	98		80 - 120				10/12/16 07:11	10/12/16 12:01	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-7 0-2'

Lab Sample ID: 310-91286-13

Date Collected: 10/05/16 17:00

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 86.1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.109		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Acenaphthylene	<0.109		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Anthracene	<0.109		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Benzo[a]anthracene	0.403		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Benzo[a]pyrene	0.410		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Benzo[b]fluoranthene	0.613		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Benzo[g,h,i]perylene	0.268		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Benzo[k]fluoranthene	0.306		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Chrysene	0.470		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Dibenz[a,h]anthracene	<0.109		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Fluoranthene	0.527		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Fluorene	<0.109		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Indeno[1,2,3-cd]pyrene	0.232		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
2-Methylnaphthalene	<0.109		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Naphthalene	<0.109		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Phenanthrene	0.158		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Pyrene	0.488		0.109		mg/Kg	✱	10/11/16 14:22	10/12/16 16:46	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	49		32 - 110				10/11/16 14:22	10/12/16 16:46	10
Nitrobenzene-d5 (Surr)	41		15 - 113				10/11/16 14:22	10/12/16 16:46	10
Terphenyl-d14 (Surr)	58		31 - 110				10/11/16 14:22	10/12/16 16:46	10

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.480		0.281		mg/Kg	✱	10/11/16 14:16	10/18/16 14:06	5
PCB-1221	<0.0561		0.0561		mg/Kg	✱	10/11/16 14:16	10/12/16 19:09	1
PCB-1232	<0.0561		0.0561		mg/Kg	✱	10/11/16 14:16	10/12/16 19:09	1
PCB-1242	<0.0561		0.0561		mg/Kg	✱	10/11/16 14:16	10/12/16 19:09	1
PCB-1248	<0.0561		0.0561		mg/Kg	✱	10/11/16 14:16	10/12/16 19:09	1
PCB-1254	<0.0561		0.0561		mg/Kg	✱	10/11/16 14:16	10/12/16 19:09	1
PCB-1260	0.149		0.0561		mg/Kg	✱	10/11/16 14:16	10/12/16 19:09	1
PCB-1268	<0.0561		0.0561		mg/Kg	✱	10/11/16 14:16	10/12/16 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	28		10 - 110				10/11/16 14:16	10/12/16 19:09	1
Tetrachloro-m-xylene	28		10 - 110				10/11/16 14:16	10/12/16 19:09	1

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	200		0.438		mg/Kg	✱	10/12/16 10:00	10/13/16 21:57	1
Cadmium	3.02		0.877		mg/Kg	✱	10/12/16 10:00	10/13/16 21:57	1
Chromium	14.2		0.877		mg/Kg	✱	10/12/16 10:00	10/13/16 21:57	1
Lead	386		4.38		mg/Kg	✱	10/12/16 10:00	10/13/16 21:57	1
Selenium	<6.58		6.58		mg/Kg	✱	10/12/16 10:00	10/13/16 21:57	1
Silver	<0.877		0.877		mg/Kg	✱	10/12/16 10:00	10/13/16 21:57	1

Method: 7010 - Metals (GFAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.27		0.549		mg/Kg	✱	10/12/16 10:00	10/13/16 01:38	12

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-7 0-2'

Lab Sample ID: 310-91286-13

Date Collected: 10/05/16 17:00

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 86.1

Method: 7471B - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0558		0.0221		mg/Kg	⊗	10/11/16 15:42	10/13/16 15:23	1

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- 14
- 15

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-7 2-4'

Date Collected: 10/05/16 17:00

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-14

Matrix: Soil

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.126		0.126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Benzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Bromobenzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Bromochloromethane	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Bromodichloromethane	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Bromoform	<0.0252		0.0252		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Bromomethane	<0.0503		0.0503		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
2-Butanone (MEK)	<0.126		0.126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
n-Butylbenzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
sec-Butylbenzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
tert-Butylbenzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Carbon disulfide	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Carbon tetrachloride	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Chlorobenzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Chlorodibromomethane	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Chloroethane	<0.0503		0.0503		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Chloroform	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Chloromethane	<0.0503		0.0503		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
2-Chlorotoluene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
4-Chlorotoluene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,2-Dibromo-3-Chloropropane	<0.126		0.126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,2-Dibromoethane (EDB)	<0.126		0.126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Dibromomethane	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,2-Dichlorobenzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,3-Dichlorobenzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,4-Dichlorobenzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Dichlorodifluoromethane	<0.0377		0.0377		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,1-Dichloroethane	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,2-Dichloroethane	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,1-Dichloroethene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
cis-1,2-Dichloroethene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
trans-1,2-Dichloroethene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,2-Dichloropropane	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,3-Dichloropropane	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
2,2-Dichloropropane	<0.0503		0.0503		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,1-Dichloropropene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
cis-1,3-Dichloropropene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
trans-1,3-Dichloropropene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Ethylbenzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Hexachlorobutadiene	<0.0629		0.0629		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Hexane	<0.0629		0.0629		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Isopropylbenzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
p-Isopropyltoluene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Methylene Chloride	<0.126		0.126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Methyl tert-butyl ether	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Naphthalene	<0.0629		0.0629		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
N-Propylbenzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Styrene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,1,1,2-Tetrachloroethane	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-7 2-4'

Lab Sample ID: 310-91286-14

Date Collected: 10/05/16 17:00

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Tetrachloroethene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Toluene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,2,3-Trichlorobenzene	<0.0629		0.0629		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,2,4-Trichlorobenzene	<0.0629		0.0629		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,1,1-Trichloroethane	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,1,2-Trichloroethane	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Trichloroethene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Trichlorofluoromethane	<0.0503		0.0503		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,2,3-Trichloropropane	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,2,4-Trimethylbenzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
1,3,5-Trimethylbenzene	<0.0126		0.0126		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Vinyl chloride	<0.0377		0.0377		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1
Xylenes, Total	<0.0377		0.0377		mg/Kg	*	10/12/16 07:11	10/12/16 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120	10/12/16 07:11	10/12/16 12:26	1
Dibromofluoromethane (Surr)	89		80 - 120	10/12/16 07:11	10/12/16 12:26	1
Toluene-d8 (Surr)	99		80 - 120	10/12/16 07:11	10/12/16 12:26	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-8 0-2'

Date Collected: 10/06/16 07:55

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-15

Matrix: Soil

Percent Solids: 85.7

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Acenaphthylene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Anthracene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Benzo[a]anthracene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Benzo[a]pyrene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Benzo[b]fluoranthene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Benzo[g,h,i]perylene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Benzo[k]fluoranthene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Chrysene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Dibenz(a,h)anthracene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Fluoranthene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Fluorene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Indeno[1,2,3-cd]pyrene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
2-Methylnaphthalene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Naphthalene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Phenanthrene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1
Pyrene	<0.0111		0.0111		mg/Kg	✱	10/11/16 14:22	10/12/16 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	46		32 - 110	10/11/16 14:22	10/12/16 17:07	1
Nitrobenzene-d5 (Surr)	44		15 - 113	10/11/16 14:22	10/12/16 17:07	1
Terphenyl-d14 (Surr)	61		31 - 110	10/11/16 14:22	10/12/16 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0578		0.0578		mg/Kg	✱	10/11/16 14:16	10/12/16 19:19	1
PCB-1221	<0.0578		0.0578		mg/Kg	✱	10/11/16 14:16	10/12/16 19:19	1
PCB-1232	<0.0578		0.0578		mg/Kg	✱	10/11/16 14:16	10/12/16 19:19	1
PCB-1242	<0.0578		0.0578		mg/Kg	✱	10/11/16 14:16	10/12/16 19:19	1
PCB-1248	<0.0578		0.0578		mg/Kg	✱	10/11/16 14:16	10/12/16 19:19	1
PCB-1254	<0.0578		0.0578		mg/Kg	✱	10/11/16 14:16	10/12/16 19:19	1
PCB-1260	<0.0578		0.0578		mg/Kg	✱	10/11/16 14:16	10/12/16 19:19	1
PCB-1268	<0.0578		0.0578		mg/Kg	✱	10/11/16 14:16	10/12/16 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	46		10 - 110	10/11/16 14:16	10/12/16 19:19	1
Tetrachloro-m-xylene	41		10 - 110	10/11/16 14:16	10/12/16 19:19	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	208		0.436		mg/Kg	✱	10/12/16 10:00	10/13/16 21:59	1
Cadmium	<0.872		0.872		mg/Kg	✱	10/12/16 10:00	10/13/16 21:59	1
Chromium	10.9		0.872		mg/Kg	✱	10/12/16 10:00	10/13/16 21:59	1
Lead	33.2		4.36		mg/Kg	✱	10/12/16 10:00	10/13/16 21:59	1
Selenium	<6.54		6.54		mg/Kg	✱	10/12/16 10:00	10/13/16 21:59	1
Silver	<0.872		0.872		mg/Kg	✱	10/12/16 10:00	10/13/16 21:59	1

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<5.75		5.75		mg/Kg	✱	10/12/16 10:00	10/13/16 20:00	120

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-8 0-2'

Lab Sample ID: 310-91286-15

Date Collected: 10/06/16 07:55

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 85.7

Method: 7471B - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0221		0.0221		mg/Kg	⊠	10/11/16 15:42	10/13/16 15:25	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-8 2-4'

Lab Sample ID: 310-91286-16

Date Collected: 10/06/16 07:55

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.145		0.145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Benzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Bromobenzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Bromochloromethane	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Bromodichloromethane	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Bromoform	<0.0290		0.0290		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Bromomethane	<0.0579		0.0579		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
2-Butanone (MEK)	<0.145		0.145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
n-Butylbenzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
sec-Butylbenzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
tert-Butylbenzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Carbon disulfide	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Carbon tetrachloride	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Chlorobenzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Chlorodibromomethane	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Chloroethane	<0.0579		0.0579		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Chloroform	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Chloromethane	<0.0579		0.0579		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
2-Chlorotoluene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
4-Chlorotoluene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,2-Dibromo-3-Chloropropane	<0.145		0.145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,2-Dibromoethane (EDB)	<0.145		0.145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Dibromomethane	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,2-Dichlorobenzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,3-Dichlorobenzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,4-Dichlorobenzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Dichlorodifluoromethane	<0.0434		0.0434		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,1-Dichloroethane	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,2-Dichloroethane	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,1-Dichloroethene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
cis-1,2-Dichloroethene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
trans-1,2-Dichloroethene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,2-Dichloropropane	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,3-Dichloropropane	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
2,2-Dichloropropane	<0.0579		0.0579		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,1-Dichloropropene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
cis-1,3-Dichloropropene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
trans-1,3-Dichloropropene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Ethylbenzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Hexachlorobutadiene	<0.0724		0.0724		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Hexane	<0.0724		0.0724		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Isopropylbenzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
p-Isopropyltoluene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Methylene Chloride	<0.145		0.145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Methyl tert-butyl ether	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Naphthalene	<0.0724		0.0724		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
N-Propylbenzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Styrene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,1,1,2-Tetrachloroethane	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-8 2-4'

Lab Sample ID: 310-91286-16

Date Collected: 10/06/16 07:55

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 80.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Tetrachloroethene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Toluene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,2,3-Trichlorobenzene	<0.0724		0.0724		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,2,4-Trichlorobenzene	<0.0724		0.0724		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,1,1-Trichloroethane	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,1,2-Trichloroethane	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Trichloroethene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Trichlorofluoromethane	<0.0579		0.0579		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,2,3-Trichloropropane	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,2,4-Trimethylbenzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
1,3,5-Trimethylbenzene	<0.0145		0.0145		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Vinyl chloride	<0.0434		0.0434		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Xylenes, Total	<0.0434		0.0434		mg/Kg	*	10/12/16 07:11	10/12/16 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120				10/12/16 07:11	10/12/16 12:50	1
Dibromofluoromethane (Surr)	91		80 - 120				10/12/16 07:11	10/12/16 12:50	1
Toluene-d8 (Surr)	99		80 - 120				10/12/16 07:11	10/12/16 12:50	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-9 0-2'

Lab Sample ID: 310-91286-17

Date Collected: 10/06/16 08:55

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 86.8

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Acenaphthylene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Anthracene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Benzo[a]anthracene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Benzo[a]pyrene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Benzo[b]fluoranthene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Benzo[g,h,i]perylene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Benzo[k]fluoranthene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Chrysene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Dibenz[a,h]anthracene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Fluoranthene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Fluorene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Indeno[1,2,3-cd]pyrene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
2-Methylnaphthalene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Naphthalene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Phenanthrene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Pyrene	<0.113		0.113		mg/Kg	*	10/11/16 14:22	10/12/16 17:29	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	40		32 - 110				10/11/16 14:22	10/12/16 17:29	10
Nitrobenzene-d5 (Surr)	35		15 - 113				10/11/16 14:22	10/12/16 17:29	10
Terphenyl-d14 (Surr)	54		31 - 110				10/11/16 14:22	10/12/16 17:29	10

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0569		0.0569		mg/Kg	*	10/11/16 14:16	10/12/16 19:30	1
PCB-1221	<0.0569		0.0569		mg/Kg	*	10/11/16 14:16	10/12/16 19:30	1
PCB-1232	<0.0569		0.0569		mg/Kg	*	10/11/16 14:16	10/12/16 19:30	1
PCB-1242	<0.0569		0.0569		mg/Kg	*	10/11/16 14:16	10/12/16 19:30	1
PCB-1248	<0.0569		0.0569		mg/Kg	*	10/11/16 14:16	10/12/16 19:30	1
PCB-1254	<0.0569		0.0569		mg/Kg	*	10/11/16 14:16	10/12/16 19:30	1
PCB-1260	<0.0569		0.0569		mg/Kg	*	10/11/16 14:16	10/12/16 19:30	1
PCB-1268	<0.0569		0.0569		mg/Kg	*	10/11/16 14:16	10/12/16 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	36		10 - 110				10/11/16 14:16	10/12/16 19:30	1
Tetrachloro-m-xylene	37		10 - 110				10/11/16 14:16	10/12/16 19:30	1

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	197		0.483		mg/Kg	*	10/12/16 10:00	10/13/16 22:00	1
Cadmium	<0.966		0.966		mg/Kg	*	10/12/16 10:00	10/13/16 22:00	1
Chromium	11.4		0.966		mg/Kg	*	10/12/16 10:00	10/13/16 22:00	1
Lead	24.7		4.83		mg/Kg	*	10/12/16 10:00	10/13/16 22:00	1
Selenium	<7.25		7.25		mg/Kg	*	10/12/16 10:00	10/13/16 22:00	1
Silver	<0.966		0.966		mg/Kg	*	10/12/16 10:00	10/13/16 22:00	1

Method: 7010 - Metals (GFAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.61		0.583		mg/Kg	*	10/12/16 10:00	10/13/16 01:46	12

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-9 0-2'

Lab Sample ID: 310-91286-17

Date Collected: 10/06/16 08:55

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 86.8

Method: 7471B - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0223		0.0223		mg/Kg	⊗	10/11/16 15:42	10/13/16 15:26	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-9 2-4'

Lab Sample ID: 310-91286-18

Date Collected: 10/06/16 08:55

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 87.9

Method: 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.124		0.124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Benzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Bromobenzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Bromochloromethane	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Bromodichloromethane	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Bromoform	<0.0247		0.0247		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Bromomethane	<0.0494		0.0494		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
2-Butanone (MEK)	<0.124		0.124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
n-Butylbenzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
sec-Butylbenzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
tert-Butylbenzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Carbon disulfide	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Carbon tetrachloride	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Chlorobenzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Chlorodibromomethane	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Chloroethane	<0.0494		0.0494		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Chloroform	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Chloromethane	<0.0494		0.0494		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
2-Chlorotoluene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
4-Chlorotoluene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,2-Dibromo-3-Chloropropane	<0.124		0.124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,2-Dibromoethane (EDB)	<0.124		0.124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Dibromomethane	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,2-Dichlorobenzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,3-Dichlorobenzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,4-Dichlorobenzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Dichlorodifluoromethane	<0.0371		0.0371		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,1-Dichloroethane	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,2-Dichloroethane	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,1-Dichloroethene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
cis-1,2-Dichloroethene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
trans-1,2-Dichloroethene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,2-Dichloropropane	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,3-Dichloropropane	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
2,2-Dichloropropane	<0.0494		0.0494		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,1-Dichloropropene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
cis-1,3-Dichloropropene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
trans-1,3-Dichloropropene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Ethylbenzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Hexachlorobutadiene	<0.0618		0.0618		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Hexane	<0.0618		0.0618		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Isopropylbenzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
p-Isopropyltoluene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Methylene Chloride	<0.124		0.124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Methyl tert-butyl ether	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Naphthalene	<0.0618		0.0618		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
N-Propylbenzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Styrene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,1,1,2-Tetrachloroethane	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-9 2-4'

Lab Sample ID: 310-91286-18

Date Collected: 10/06/16 08:55

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 87.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Tetrachloroethene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Toluene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,2,3-Trichlorobenzene	<0.0618		0.0618		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,2,4-Trichlorobenzene	<0.0618		0.0618		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,1,1-Trichloroethane	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,1,2-Trichloroethane	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Trichloroethene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Trichlorofluoromethane	<0.0494		0.0494		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,2,3-Trichloropropane	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,2,4-Trimethylbenzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
1,3,5-Trimethylbenzene	<0.0124		0.0124		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Vinyl chloride	<0.0371		0.0371		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Xylenes, Total	<0.0371		0.0371		mg/Kg	*	10/12/16 07:11	10/12/16 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120				10/12/16 07:11	10/12/16 13:15	1
Dibromofluoromethane (Surr)	93		80 - 120				10/12/16 07:11	10/12/16 13:15	1
Toluene-d8 (Surr)	99		80 - 120				10/12/16 07:11	10/12/16 13:15	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-10 0-2'

Date Collected: 10/06/16 10:05

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91286-19

Matrix: Soil

Percent Solids: 87.7

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.108		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Acenaphthylene	<0.108		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Anthracene	<0.108		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Benzo[a]anthracene	0.425		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Benzo[a]pyrene	0.377		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Benzo[b]fluoranthene	0.522		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Benzo[g,h,i]perylene	0.271		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Benzo[k]fluoranthene	0.272		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Chrysene	0.438		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Dibenz(a,h)anthracene	<0.108		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Fluoranthene	0.855		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Fluorene	<0.108		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Indeno[1,2,3-cd]pyrene	0.214		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
2-Methylnaphthalene	<0.108		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Naphthalene	<0.108		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Phenanthrene	0.438		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10
Pyrene	0.734		0.108		mg/Kg	*	10/11/16 14:22	10/12/16 17:50	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	62		32 - 110	10/11/16 14:22	10/12/16 17:50	10
Nitrobenzene-d5 (Surr)	53		15 - 113	10/11/16 14:22	10/12/16 17:50	10
Terphenyl-d14 (Surr)	79		31 - 110	10/11/16 14:22	10/12/16 17:50	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.117		0.0549		mg/Kg	*	10/11/16 14:16	10/12/16 19:41	1
PCB-1221	<0.0549		0.0549		mg/Kg	*	10/11/16 14:16	10/12/16 19:41	1
PCB-1232	<0.0549		0.0549		mg/Kg	*	10/11/16 14:16	10/12/16 19:41	1
PCB-1242	<0.0549		0.0549		mg/Kg	*	10/11/16 14:16	10/12/16 19:41	1
PCB-1248	<0.0549		0.0549		mg/Kg	*	10/11/16 14:16	10/12/16 19:41	1
PCB-1254	<0.0549		0.0549		mg/Kg	*	10/11/16 14:16	10/12/16 19:41	1
PCB-1260	0.760		0.110		mg/Kg	*	10/11/16 14:16	10/17/16 11:02	2
PCB-1268	<0.0549		0.0549		mg/Kg	*	10/11/16 14:16	10/12/16 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	13		10 - 110	10/11/16 14:16	10/12/16 19:41	1
Tetrachloro-m-xylene	8 X		10 - 110	10/11/16 14:16	10/12/16 19:41	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	252		0.953		mg/Kg	*	10/12/16 10:00	10/14/16 14:15	2
Cadmium	7.22		1.91		mg/Kg	*	10/12/16 10:00	10/14/16 14:15	2
Chromium	52.5		1.91		mg/Kg	*	10/12/16 10:00	10/14/16 14:15	2
Lead	1240		9.53		mg/Kg	*	10/12/16 10:00	10/14/16 14:15	2
Selenium	<14.3		14.3		mg/Kg	*	10/12/16 10:00	10/14/16 14:15	2
Silver	<1.91		1.91		mg/Kg	*	10/12/16 10:00	10/14/16 14:15	2

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.49		2.47		mg/Kg	*	10/12/16 10:00	10/13/16 20:03	60

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-10 0-2'

Lab Sample ID: 310-91286-19

Date Collected: 10/06/16 10:05

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 87.7

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.204		0.0219		mg/Kg	☒	10/11/16 15:42	10/13/16 15:28	1

1

2

3

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TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-10 2-4'

Lab Sample ID: 310-91286-20

Date Collected: 10/06/16 10:05

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.133		0.133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Benzene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Bromobenzene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Bromochloromethane	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Bromodichloromethane	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Bromoform	<0.0265		0.0265		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Bromomethane	<0.0531		0.0531		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
2-Butanone (MEK)	<0.133		0.133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
n-Butylbenzene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
sec-Butylbenzene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
tert-Butylbenzene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Carbon disulfide	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Carbon tetrachloride	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Chlorobenzene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Chlorodibromomethane	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Chloroethane	<0.0531		0.0531		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Chloroform	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Chloromethane	<0.0531		0.0531		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
2-Chlorotoluene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
4-Chlorotoluene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
1,2-Dibromo-3-Chloropropane	<0.133		0.133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
1,2-Dibromoethane (EDB)	<0.133		0.133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Dibromomethane	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
1,2-Dichlorobenzene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
1,3-Dichlorobenzene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
1,4-Dichlorobenzene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Dichlorodifluoromethane	<0.0398		0.0398		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
1,1-Dichloroethane	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
1,2-Dichloroethane	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
1,1-Dichloroethene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
cis-1,2-Dichloroethene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
trans-1,2-Dichloroethene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
1,2-Dichloropropane	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
1,3-Dichloropropane	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
2,2-Dichloropropane	<0.0531		0.0531		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
1,1-Dichloropropene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
cis-1,3-Dichloropropene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
trans-1,3-Dichloropropene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Ethylbenzene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Hexachlorobutadiene	<0.0664		0.0664		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Hexane	<0.0664		0.0664		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Isopropylbenzene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
p-Isopropyltoluene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Methylene Chloride	<0.133		0.133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Methyl tert-butyl ether	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Naphthalene	<0.0664		0.0664		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
N-Propylbenzene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
Styrene	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1
1,1,1,2-Tetrachloroethane	<0.0133		0.0133		mg/Kg	*	10/12/16 07:11	10/12/16 13:40	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: GP-10 2-4'

Lab Sample ID: 310-91286-20

Date Collected: 10/06/16 10:05

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.0133		0.0133		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1
Tetrachloroethene	<0.0133		0.0133		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1
Toluene	<0.0133		0.0133		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1
1,2,3-Trichlorobenzene	<0.0664		0.0664		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1
1,2,4-Trichlorobenzene	<0.0664		0.0664		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1
1,1,1-Trichloroethane	<0.0133		0.0133		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1
1,1,2-Trichloroethane	<0.0133		0.0133		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1
Trichloroethene	<0.0133		0.0133		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1
Trichlorofluoromethane	<0.0531		0.0531		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1
1,2,3-Trichloropropane	<0.0133		0.0133		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1
1,2,4-Trimethylbenzene	<0.0133		0.0133		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1
1,3,5-Trimethylbenzene	<0.0133		0.0133		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1
Vinyl chloride	<0.0398		0.0398		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1
Xylenes, Total	<0.0398		0.0398		mg/Kg	✱	10/12/16 07:11	10/12/16 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120	10/12/16 07:11	10/12/16 13:40	1
Dibromofluoromethane (Surr)	89		80 - 120	10/12/16 07:11	10/12/16 13:40	1
Toluene-d8 (Surr)	97		80 - 120	10/12/16 07:11	10/12/16 13:40	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: Scrap Area #1 (0-1") (CSSA1)

Lab Sample ID: 310-91286-21

Date Collected: 10/06/16 10:10

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.0966		0.0555		mg/Kg	*	10/11/16 14:16	10/12/16 19:52	1
PCB-1221	<0.0555		0.0555		mg/Kg	*	10/11/16 14:16	10/12/16 19:52	1
PCB-1232	<0.0555		0.0555		mg/Kg	*	10/11/16 14:16	10/12/16 19:52	1
PCB-1242	<0.0555		0.0555		mg/Kg	*	10/11/16 14:16	10/12/16 19:52	1
PCB-1248	<0.0555		0.0555		mg/Kg	*	10/11/16 14:16	10/12/16 19:52	1
PCB-1254	<0.0555		0.0555		mg/Kg	*	10/11/16 14:16	10/12/16 19:52	1
PCB-1260	1.02		0.111		mg/Kg	*	10/11/16 14:16	10/17/16 11:13	2
PCB-1268	<0.0555		0.0555		mg/Kg	*	10/11/16 14:16	10/12/16 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	33		10 - 110				10/11/16 14:16	10/12/16 19:52	1
Tetrachloro-m-xylene	36		10 - 110				10/11/16 14:16	10/12/16 19:52	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: Scrap Area #1 (1-12") (CSSA1)

Lab Sample ID: 310-91286-22

Date Collected: 10/06/16 10:10

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 83.2

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Barium	204		0.874		mg/Kg	⊗	10/12/16 10:00	10/14/16 14:17	2	
Cadmium	4.41		1.75		mg/Kg	⊗	10/12/16 10:00	10/14/16 14:17	2	
Chromium	19.5		1.75		mg/Kg	⊗	10/12/16 10:00	10/14/16 14:17	2	
Lead	673		8.74		mg/Kg	⊗	10/12/16 10:00	10/14/16 14:17	2	
Selenium	<13.1		13.1		mg/Kg	⊗	10/12/16 10:00	10/14/16 14:17	2	
Silver	<1.75		1.75		mg/Kg	⊗	10/12/16 10:00	10/14/16 14:17	2	

Method: 7010 - Metals (GFAA)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Arsenic	5.80		0.579		mg/Kg	⊗	10/12/16 10:00	10/13/16 01:54	12	

Method: 7471B - Mercury (CVAA)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Mercury	1.11		0.117		mg/Kg	⊗	10/11/16 15:42	10/13/16 15:51	5	

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: Scrap Area #2 (0-1") (CSSA2)

Lab Sample ID: 310-91286-23

Date Collected: 10/06/16 10:50

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.401		0.112		mg/Kg	*	10/11/16 14:16	10/17/16 11:24	2
PCB-1221	<0.0558		0.0558		mg/Kg	*	10/11/16 14:16	10/12/16 20:02	1
PCB-1232	<0.0558		0.0558		mg/Kg	*	10/11/16 14:16	10/12/16 20:02	1
PCB-1242	<0.0558		0.0558		mg/Kg	*	10/11/16 14:16	10/12/16 20:02	1
PCB-1248	<0.0558		0.0558		mg/Kg	*	10/11/16 14:16	10/12/16 20:02	1
PCB-1254	<0.0558		0.0558		mg/Kg	*	10/11/16 14:16	10/12/16 20:02	1
PCB-1260	0.580		0.112		mg/Kg	*	10/11/16 14:16	10/17/16 11:24	2
PCB-1268	<0.0558		0.0558		mg/Kg	*	10/11/16 14:16	10/12/16 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	24		10 - 110	10/11/16 14:16	10/12/16 20:02	1
Tetrachloro-m-xylene	24		10 - 110	10/11/16 14:16	10/12/16 20:02	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: Scrap Area #2 (1-12") (CSSA2)

Lab Sample ID: 310-91286-24

Date Collected: 10/06/16 10:50

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 88.1

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	258		0.493		mg/Kg	⊗	10/12/16 10:00	10/13/16 22:05	1
Cadmium	11.0		0.987		mg/Kg	⊗	10/12/16 10:00	10/13/16 22:05	1
Chromium	58.9		0.987		mg/Kg	⊗	10/12/16 10:00	10/13/16 22:05	1
Lead	520		4.93		mg/Kg	⊗	10/12/16 10:00	10/13/16 22:05	1
Selenium	<7.40		7.40		mg/Kg	⊗	10/12/16 10:00	10/13/16 22:05	1
Silver	<0.987		0.987		mg/Kg	⊗	10/12/16 10:00	10/13/16 22:05	1

Method: 7010 - Metals (GFAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11.4		0.605		mg/Kg	⊗	10/12/16 10:00	10/13/16 01:57	12

Method: 7471B - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.108		0.0215		mg/Kg	⊗	10/11/16 15:42	10/13/16 15:31	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: Scrap Area #3 (0-1") (CSSA3)

Lab Sample ID: 310-91286-25

Date Collected: 10/06/16 10:30

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.299		0.116		mg/Kg	*	10/11/16 14:16	10/17/16 11:34	2
PCB-1221	<0.0578		0.0578		mg/Kg	*	10/11/16 14:16	10/12/16 20:13	1
PCB-1232	<0.0578		0.0578		mg/Kg	*	10/11/16 14:16	10/12/16 20:13	1
PCB-1242	<0.0578		0.0578		mg/Kg	*	10/11/16 14:16	10/12/16 20:13	1
PCB-1248	<0.0578		0.0578		mg/Kg	*	10/11/16 14:16	10/12/16 20:13	1
PCB-1254	<0.0578		0.0578		mg/Kg	*	10/11/16 14:16	10/12/16 20:13	1
PCB-1260	0.430		0.116		mg/Kg	*	10/11/16 14:16	10/17/16 11:34	2
PCB-1268	<0.0578		0.0578		mg/Kg	*	10/11/16 14:16	10/12/16 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	18		10 - 110	10/11/16 14:16	10/12/16 20:13	1
Tetrachloro-m-xylene	19		10 - 110	10/11/16 14:16	10/12/16 20:13	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: Scrap Area #3 (1-12") (CSSA3)

Lab Sample ID: 310-91286-26

Date Collected: 10/06/16 10:30

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 87.1

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	345		1.29		mg/Kg	*	10/12/16 10:00	10/14/16 14:18	3
Cadmium	13.3		2.58		mg/Kg	*	10/12/16 10:00	10/14/16 14:18	3
Chromium	41.2		2.58		mg/Kg	*	10/12/16 10:00	10/14/16 14:18	3
Lead	2550		12.9		mg/Kg	*	10/12/16 10:00	10/14/16 14:18	3
Selenium	<19.3		19.3		mg/Kg	*	10/12/16 10:00	10/14/16 14:18	3
Silver	<2.58		2.58		mg/Kg	*	10/12/16 10:00	10/14/16 14:18	3

Method: 7010 - Metals (GFAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.69		0.561		mg/Kg	*	10/12/16 10:00	10/13/16 02:01	12

Method: 7471B - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.512		0.0208		mg/Kg	*	10/11/16 15:42	10/13/16 15:38	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-1
SDG: 05159093

Client Sample ID: Scrap Area #4 (0-1") (CSSA4)

Lab Sample ID: 310-91286-27

Date Collected: 10/06/16 11:10

Matrix: Soil

Date Received: 10/11/16 10:25

Percent Solids: 88.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.352		0.277		mg/Kg	*	10/11/16 14:16	10/18/16 15:00	5
PCB-1221	<0.0554		0.0554		mg/Kg	*	10/11/16 14:16	10/12/16 20:24	1
PCB-1232	<0.0554		0.0554		mg/Kg	*	10/11/16 14:16	10/12/16 20:24	1
PCB-1242	<0.0554		0.0554		mg/Kg	*	10/11/16 14:16	10/12/16 20:24	1
PCB-1248	<0.0554		0.0554		mg/Kg	*	10/11/16 14:16	10/12/16 20:24	1
PCB-1254	<0.0554		0.0554		mg/Kg	*	10/11/16 14:16	10/12/16 20:24	1
PCB-1260	0.335 p		0.277		mg/Kg	*	10/11/16 14:16	10/18/16 15:00	5
PCB-1268	<0.0554		0.0554		mg/Kg	*	10/11/16 14:16	10/12/16 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	45		10 - 110				10/11/16 14:16	10/12/16 20:24	1
Tetrachloro-m-xylene	38		10 - 110				10/11/16 14:16	10/12/16 20:24	1

TestAmerica Cedar Falls

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-91286-2
TestAmerica Sample Delivery Group: 05159093
Client Project/Site: B & T Metals - Gering, NE

For:
Terracon Consulting Eng & Scientists
15080 A Circle
Omaha, Nebraska 68144

Attn: Megan Hughes

Angela Muehling

Authorized for release by:
11/2/2016 12:13:01 PM
Angela Muehling, Project Manager I
angela.muehling@testamericainc.com

Designee for
Shawn Hayes, Project Manager II
(319)277-2401
shawn.hayes@testamericainc.com

LINKS

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The
Expert**

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www.testamericainc.com

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

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

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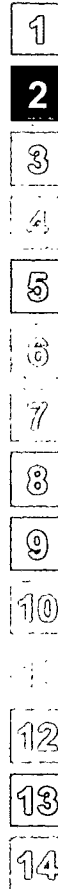
12

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-2
SDG: 05159093

Job ID: 310-91286-2

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-91286-2

Comments

No additional comments.

Receipt

The samples were received on 10/11/2016 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 1.6° C.

Metals

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

Organic Prep

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 310-146868, the temperature 20.1-21.5 was outside of this range.

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-2
SDG: 05159093

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-91286-33	Core Cuttings	Soil	10/06/16 15:15	10/11/16 10:25

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Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-2
SDG: 05159093

Client Sample ID: Core Cuttings

Lab Sample ID: 310-91286-33

Analyte	Result	Qualifier	RL	MDL	Unit	DII Fac	D	Method	Prep Type
Barium	0.997		0.500		mg/L	1		6010C	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-2
SDG: 05159093

Client Sample ID: Core Cuttings

Lab Sample ID: 310-91286-33

Date Collected: 10/06/16 15:15

Matrix: Soil

Date Received: 10/11/16 10:25

Method: 6010C - Metals (ICP) - TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.300		0.300		mg/L		11/01/16 09:50	11/01/16 22:50	1
Barium	0.997		0.500		mg/L		11/01/16 09:50	11/01/16 22:50	1
Cadmium	<0.0200		0.0200		mg/L		11/01/16 09:50	11/01/16 22:50	1
Chromium	<0.0200		0.0200		mg/L		11/01/16 09:50	11/01/16 22:50	1
Lead	<0.100		0.100		mg/L		11/01/16 09:50	11/01/16 22:50	1
Selenium	<0.150		0.150		mg/L		11/01/16 09:50	11/01/16 22:50	1
Silver	<0.0200		0.0200		mg/L		11/01/16 09:50	11/01/16 22:50	1

Method: 7470A - Mercury (CVAA) - TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		11/01/16 10:56	11/01/16 14:49	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-2
SDG: 05159093

Glossary

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

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-2
SDG: 05159093

Method: 6010C - Metals (ICP)

Lab Sample ID: LB 310-146868/1-B
Matrix: Solid
Analysis Batch: 147054

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 146922

Analyte	Result	LB LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.300		0.300		mg/L		11/01/16 09:50	11/01/16 16:03	1
Barium	<0.500		0.500		mg/L		11/01/16 09:50	11/01/16 16:03	1
Cadmium	<0.0200		0.0200		mg/L		11/01/16 09:50	11/01/16 16:03	1
Chromium	<0.0200		0.0200		mg/L		11/01/16 09:50	11/01/16 16:03	1
Lead	<0.100		0.100		mg/L		11/01/16 09:50	11/01/16 16:03	1
Selenium	<0.150		0.150		mg/L		11/01/16 09:50	11/01/16 16:03	1
Silver	<0.0200		0.0200		mg/L		11/01/16 09:50	11/01/16 16:03	1

Lab Sample ID: LCS 310-146868/2-B
Matrix: Solid
Analysis Batch: 147054

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 146922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.00	3.847		mg/L		96	80 - 120
Barium	2.00	1.847		mg/L		92	80 - 120
Cadmium	2.00	1.824		mg/L		91	80 - 120
Chromium	2.00	1.816		mg/L		91	80 - 120
Lead	4.00	3.614		mg/L		90	80 - 120
Selenium	8.00	7.911		mg/L		99	80 - 120
Silver	2.00	2.121		mg/L		106	80 - 120

Lab Sample ID: 310-91286-33 MS
Matrix: Soil
Analysis Batch: 147054

Client Sample ID: Core Cuttings
Prep Type: TCLP
Prep Batch: 146922

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.300		4.00	3.917		mg/L		98	75 - 125
Barium	0.997		2.00	2.773		mg/L		89	75 - 125
Cadmium	<0.0200		2.00	1.718		mg/L		86	75 - 125
Chromium	<0.0200		2.00	1.778		mg/L		89	75 - 125
Lead	<0.100		4.00	3.566		mg/L		89	75 - 125
Selenium	<0.150		8.00	8.082		mg/L		101	75 - 125
Silver	<0.0200		2.00	2.255		mg/L		113	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-146868/1-C
Matrix: Solid
Analysis Batch: 146997

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 146940

Analyte	Result	LB LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		11/01/16 10:56	11/01/16 14:25	1

Lab Sample ID: LCS 310-146868/2-C
Matrix: Solid
Analysis Batch: 146997

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 146940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0167	0.01491		mg/L		89	80 - 120

TestAmerica Cedar Falls

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-2
SDG: 05159093

Lab Sample ID: 310-91286-33 MS

Matrix: Soil

Analysis Batch: 146997

Client Sample ID: Core Cuttings

Prep Type: TCLP

Prep Batch: 146940

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00200		0.0167	0.01405		mg/L		84	80 - 120

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-2
SDG: 05159093

Metals

Leach Batch: 146868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91286-33	Core Cuttings	TCLP	Soil	1311	
LB 310-146868/1-B	Method Blank	TCLP	Solid	1311	
LB 310-146868/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-146868/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-146868/2-C	Lab Control Sample	TCLP	Solid	1311	
310-91286-33 MS	Core Cuttings	TCLP	Soil	1311	

Prep Batch: 146922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91286-33	Core Cuttings	TCLP	Soil	3010A	146868
LB 310-146868/1-B	Method Blank	TCLP	Solid	3010A	146868
LCS 310-146868/2-B	Lab Control Sample	TCLP	Solid	3010A	146868
310-91286-33 MS	Core Cuttings	TCLP	Soil	3010A	146868

Prep Batch: 146940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91286-33	Core Cuttings	TCLP	Soil	7470A	146868
LB 310-146868/1-C	Method Blank	TCLP	Solid	7470A	146868
LCS 310-146868/2-C	Lab Control Sample	TCLP	Solid	7470A	146868
310-91286-33 MS	Core Cuttings	TCLP	Soil	7470A	146868

Analysis Batch: 146997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91286-33	Core Cuttings	TCLP	Soil	7470A	146940
LB 310-146868/1-C	Method Blank	TCLP	Solid	7470A	146940
LCS 310-146868/2-C	Lab Control Sample	TCLP	Solid	7470A	146940
310-91286-33 MS	Core Cuttings	TCLP	Soil	7470A	146940

Analysis Batch: 147054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91286-33	Core Cuttings	TCLP	Soil	6010C	146922
LB 310-146868/1-B	Method Blank	TCLP	Solid	6010C	146922
LCS 310-146868/2-B	Lab Control Sample	TCLP	Solid	6010C	146922
310-91286-33 MS	Core Cuttings	TCLP	Soil	6010C	146922

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-2
SDG: 05159093

Client Sample ID: Core Cuttings

Lab Sample ID: 310-91286-33

Date Collected: 10/06/16 15:15

Matrix: Soil

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			146868	10/31/16 15:05	JTA	TAL CF
TCLP	Prep	3010A			146922	11/01/16 09:50	JNR	TAL CF
TCLP	Analysis	6010C		1	147054	11/01/16 22:50	OAD	TAL CF
TCLP	Leach	1311			146868	10/31/16 15:05	JTA	TAL CF
TCLP	Prep	7470A			146940	11/01/16 10:56	SAD	TAL CF
TCLP	Analysis	7470A		1	146997	11/01/16 14:49	SAD	TAL CF

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-2
SDG: 05159093

Laboratory: TestAmerica Cedar Falls

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

Authority	Program	EPA Region	Certification ID	Expiration Date
AIHA-LAP, LLC	IHLAP		101044	11-01-18
Georgia	State Program	4	N/A	09-29-17
Illinois	NELAP	5	200024	11-29-16
Iowa	State Program	7	007	12-01-17
Kansas	NELAP	7	E-10341	01-31-17
Minnesota	NELAP	5	019-999-319	12-31-16
Minnesota (Petrofund)	State Program	1	3349	08-22-17
North Dakota	State Program	8	R-186	09-29-17
Oregon	NELAP	10	IA100001	09-29-17

TestAmerica Cedar Falls

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91286-2
SDG: 05159093

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF

Protocol References:

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

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

Hayes, Shawn M.

From: Hughes, Megan <Megan.Hughes@terracon.com>
Sent: Friday, October 28, 2016 1:50 PM
To: Hayes, Shawn M.
Subject: J91286-1 UDS Level 2 Report Final Report (004).pdf
Attachments: J91286-1 UDS Level 2 Report Final Report (004).pdf

Categories: Follow Up

We need to also run the Core Cuttings soil sample for TCLP – Metals. Please let me know if you have enough volume and if you have questions.

Thanks!
Megan

Terracon provides environmental, facilities, geotechnical, and materials consulting engineering services delivered with responsiveness, resourcefulness, and reliability.

Private and confidential as detailed here (www.terracon.com/disclaimer). If you cannot access hyperlink, please e-mail sender.

Cedar Falls
704 Enterprise Drive

Cedar Falls, IA 50613
phone 319.277.2401 fax 319.277.2425

Chain of Custody Record

TestAmerica

TEST AMERICA LABORATORIES, INC.

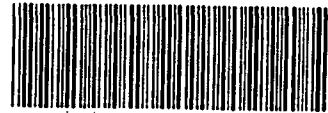
TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Megan Hughes		Site Contact: Andrew Herman		Date:		COC No:				
Terracon Consultants Inc.		Tel/Fax: 402-330-2202 megan.hughes@terracon.com		Lab Contact:		Carrier: FedEx		1 of 1 COCs				
15080 A Circle		Analysis/Turnaround Time						Job No. Project # 05159093				
Omaha, NE 68144		Calendar (C) or Work Days (W) W						SDG No.				
(402) 330-2202 Phone		TAT if different from Below										
(402) 330-7606 FAX		<input type="checkbox"/> 2 weeks										
B & T Metals		<input checked="" type="checkbox"/> 1 week										
Site: Gering, NE		<input type="checkbox"/> 2 days										
P O #: Project# 05159093		<input type="checkbox"/> 1 day										
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	PAHs	PCBs	8 RCRA Metals	TELL METALS	Sample Specific Notes:
SCRAP AREA #3 0-1" (CSSA3)	10/6	10:30	C	S	1	N			1			
SCRAP AREA #3 1-12" (CSSA3)	1	1	C	S	1	N				1		
SCRAP AREA #4 0-1" (CSSA4)	1	11:10	C	S	1	N			1			
SCRAP AREA #4 1-12" (CSSA4)	1	11:10	C	S	1	N				1		
BATTERY STORAGE AREA 0-1"	10/6	11:40	C	S	1	N			1			
BATTERY STORAGE AREA 1-12"	10/6	11:40	C	S	1	N				1		
RAILROAD TRACKS 0-1"	1	11:25	C	S	3	N			3			EXTRA VOLUME FOR MS/MSD
RAILROAD TRACKS 1-12"	1	11:25	C	S	3	N				3		EXTRA VOLUME FOR MS/MSD
if CORE CUTTINGS	1	3:15	C	S	1	N			X	X	✓	HOLD FOR TCLP
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other						1 1 1 1						
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Special Instructions/QC Requirements & Comments: Times are central time zone						REPORT RESULTS IN mg/L Chromatograms Needed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Relinquished by:	Company: Terracon		Date/Time: 10/10/16		Received by:	Company: TestAmerica		Date/Time: 10/11/16 10:25				
Relinquished by:	Company:		Date/Time:		Received by:	Company:		Date/Time:				
Relinquished by:	Company:		Date/Time:		Received by:	Company:		Date/Time:				

Form No. CA-C-WI-002, dated 04/07/2011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



310-91286 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information	
Client: <u>Terracon</u>	Project: <u>AP</u>
City/State: <u>Omaha NE</u>	Project: <u>B+T</u>
Receipt Information	
Date/Time Received: <u>10-11-16 1325</u>	Received By: <u>KP</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____	
Condition of Cooler/Containers	
Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: <u>C13</u>
Multiple Coolers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>
Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? <u>↓</u>
<u>GP-1</u> <u>KP 10-11-16</u>	
Temperature Record	
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE	
Temperature Blank? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ID & Bottle Type: _____
Note: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.	
Thermometer ID: <u>H</u>	Correction Factor (°C): <u>+0.0</u>
Uncorrected Temp (°C): <u>1.6</u>	Corrected Temp (°C): <u>1.6</u>
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login	
Additional Comments	
<u>GP8 GP7 GP6 GP10</u>	
<u>GP5 GP9 Core cuttings</u>	

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information	
Client: <u>terracon</u>	
City/State: <u>Omaha NE</u>	Project: <u>B+T Metals</u>
Receipt Information	
Date/Time Received: <u>10-11-16 1025</u>	Received By: <u>KP</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other:	
Condition of Cooler/Containers	
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler ID:
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler # <u>2</u> of <u>2</u>
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Which VOA samples are in cooler? ↓
Temperature Record	
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: <input type="checkbox"/> NONE	
Temperature Blank?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ID & Bottle Type:
NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.	
Thermometer ID: <u>H1</u>	Correction Factor (°C): <u>+0.0</u>
Uncorrected Temp (°C): <u>1.1</u>	Corrected Temp (°C): <u>1.1</u>
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login.	
Additional Comments	
<u>GP2 GP4 GP3 GP1 2-4</u>	
<u>GP1 0-2</u>	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 310-91286-2

SDG Number: 05159093

Login Number: 91286

List Source: TestAmerica Cedar Falls

List Number: 1

Creator: Muehling, Angela C

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	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 (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Cedar Falls

704 Enterprise Drive

Cedar Falls, IA 50613

Tel: (319)277-2401

TestAmerica Job ID: 310-91288-1

TestAmerica Sample Delivery Group: 05159093

Client Project/Site: B & T Metals - Gering, NE

For:

Terracon Consulting Eng & Scientists

15080 A Circle

Omaha, Nebraska 68144

Attn: Megan Hughes



Authorized for release by:

10/20/2016 4:06:25 PM

Shawn Hayes, Project Manager II

(319)277-2401

shawn.hayes@testamericainc.com

LINKS

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results through

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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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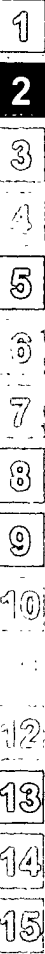
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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Job ID: 310-91288-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-91288-1

Comments

No additional comments.

Receipt

The samples were received on 10/11/2016 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.6° C, 3.1° C and 3.4° C.

GC/MS VOA

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: Decontamination Fluids (310-91288-14). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: GP-2 (310-91288-2), GP-3 (310-91288-3), GP-A (310-91288-4), GP-4 (310-91288-5), GP-5 (310-91288-6), GP-7 (310-91288-8), GP-9 (310-91288-10) and Decontamination Fluids (310-91288-14).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 310-144210 recovered above the upper control limit for Tetrachloroethene (24.1 %D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 310-144210/3).

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 310-144210 was outside the method criteria for the following analytes: Carbon disulfide (-20.3 %D) and 1,1-Dichloroethene (-20.5 %D). A LCS was analyzed with the affected samples and found to be acceptable using CCV criteria.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 310-144210 was outside the spcc criteria for the following analyte: Acetone (-22 %D). A LCS standard was analyzed with the affected samples and found to be acceptable using CCV criteria.

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

GC/MS Semi VOA

Method(s) 8270D SIM: Surrogate recovery for the following sample was outside control limits: GP-1 (310-91288-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method(s) 8082A: Surrogate recovery for the following sample was outside of acceptance limits: Decontamination Fluids (310-91288-14). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

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

Metals

Method(s) 3010 and 7470A: The reference methods require samples to be preserved to a pH of <2. The following samples were received with insufficient preservation at a pH of >2: GP-1 (310-91288-1), GP-2 (310-91288-2), GP-3 (310-91288-3), GP-A (310-91288-4), GP-4 (310-91288-5), GP-7 (310-91288-8) and GP-9 (310-91288-10). The samples were preserved to the appropriate pH in the laboratory.

Method(s) 6020A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: GP-1 (310-91288-1), GP-2 (310-91288-2), GP-3 (310-91288-3), GP-A (310-91288-4), GP-4 (310-91288-5), GP-5 (310-91288-6), GP-6 (310-91288-7), GP-7 (310-91288-8), GP-8 (310-91288-9) and GP-9 (310-91288-10).

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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Job ID: 310-91288-1 (Continued)

Laboratory: TestAmerica Cedar Falls (Continued)

Organic Prep

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

VOA Prep

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

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Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-91288-1	GP-1	Ground Water	10/06/16 12:50	10/11/16 10:25
310-91288-2	GP-2	Ground Water	10/06/16 14:20	10/11/16 10:25
310-91288-3	GP-3	Ground Water	10/06/16 12:00	10/11/16 10:25
310-91288-4	GP-A	Ground Water	10/06/16 12:00	10/11/16 10:25
310-91288-5	GP-4	Ground Water	10/06/16 14:45	10/11/16 10:25
310-91288-6	GP-5	Ground Water	10/05/16 14:35	10/11/16 10:25
310-91288-7	GP-6	Ground Water	10/05/16 16:15	10/11/16 10:25
310-91288-8	GP-7	Ground Water	10/05/16 17:15	10/11/16 10:25
310-91288-9	GP-8	Ground Water	10/06/16 08:15	10/11/16 10:25
310-91288-10	GP-9	Ground Water	10/06/16 09:45	10/11/16 10:25
310-91288-11	TB-1 (C13)	Water	10/05/16 00:00	10/11/16 10:25
310-91288-12	FB-1	Water	10/06/16 07:30	10/11/16 10:25
310-91288-13	EB-1	Water	10/06/16 14:55	10/11/16 10:25
310-91288-14	Decontamination Fluids	Water	10/06/16 15:05	10/11/16 10:25
310-91288-15	TB-2 (8-J)	Water	10/05/16 00:00	10/11/16 10:25
310-91288-16	TB-3 (17-C)	Water	10/05/16 00:00	10/11/16 10:25

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-1

Lab Sample ID: 310-91288-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0171		0.0100		mg/L	1		8260C	Total/NA
Arsenic	0.0975	F1	0.00200		mg/L	1		6020A	Total/NA
Barium	1.01		0.00200		mg/L	1		6020A	Total/NA
Cadmium	0.00549		0.000500		mg/L	1		6020A	Total/NA
Lead	0.00252	F1 F2	0.000500		mg/L	1		6020A	Total/NA
Arsenic	0.0554	F1	0.00200		mg/L	1		6020A	Dissolved
Barium	0.0837	F1	0.00200		mg/L	1		6020A	Dissolved
Lead	0.00987	F1	0.000500		mg/L	1		6020A	Dissolved

Client Sample ID: GP-2

Lab Sample ID: 310-91288-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	0.0255		0.00400		mg/L	1		8260C	Total/NA
Arsenic	0.0589		0.00200		mg/L	1		6020A	Total/NA
Barium	0.352		0.00200		mg/L	1		6020A	Total/NA
Cadmium	0.00919		0.000500		mg/L	1		6020A	Total/NA
Chromium	0.00544		0.00500		mg/L	1		6020A	Total/NA
Lead	0.213		0.000500		mg/L	1		6020A	Total/NA
Arsenic	0.0240		0.00200		mg/L	1		6020A	Dissolved
Barium	0.0831		0.00200		mg/L	1		6020A	Dissolved
Mercury	0.000551		0.000200		mg/L	1		7470A	Total/NA

Client Sample ID: GP-3

Lab Sample ID: 310-91288-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0527		0.00200		mg/L	1		6020A	Total/NA
Barium	0.296		0.00200		mg/L	1		6020A	Total/NA
Cadmium	0.0109		0.000500		mg/L	1		6020A	Total/NA
Chromium	0.00633		0.00500		mg/L	1		6020A	Total/NA
Lead	0.118		0.000500		mg/L	1		6020A	Total/NA
Arsenic	0.0219		0.00200		mg/L	1		6020A	Dissolved
Barium	0.0598		0.00200		mg/L	1		6020A	Dissolved
Lead	0.000778		0.000500		mg/L	1		6020A	Dissolved
Mercury	0.000743		0.000200		mg/L	1		7470A	Total/NA

Client Sample ID: GP-A

Lab Sample ID: 310-91288-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0570		0.00200		mg/L	1		6020A	Total/NA
Barium	0.319		0.00200		mg/L	1		6020A	Total/NA
Cadmium	0.0133		0.000500		mg/L	1		6020A	Total/NA
Chromium	0.00970		0.00500		mg/L	1		6020A	Total/NA
Lead	0.278		0.000500		mg/L	1		6020A	Total/NA
Arsenic	0.0221		0.00200		mg/L	1		6020A	Dissolved
Barium	0.0651		0.00200		mg/L	1		6020A	Dissolved
Lead	0.00163		0.000500		mg/L	1		6020A	Dissolved
Mercury	0.000604		0.000200		mg/L	1		7470A	Total/NA

Client Sample ID: GP-4

Lab Sample ID: 310-91288-5

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-4 (Continued)

Lab Sample ID: 310-91288-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0346		0.00200		mg/L	1		6020A	Total/NA
Barium	0.276		0.00200		mg/L	1		6020A	Total/NA
Cadmium	0.00760		0.000500		mg/L	1		6020A	Total/NA
Lead	0.0413		0.000500		mg/L	1		6020A	Total/NA
Arsenic	0.00974		0.00200		mg/L	1		6020A	Dissolved
Barium	0.0699		0.00200		mg/L	1		6020A	Dissolved
Lead	0.000843		0.000500		mg/L	1		6020A	Dissolved
Selenium	0.00542		0.00500		mg/L	1		6020A	Dissolved

Client Sample ID: GP-5

Lab Sample ID: 310-91288-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0361		0.00200		mg/L	1		6020A	Total/NA
Barium	0.376		0.00200		mg/L	1		6020A	Total/NA
Cadmium	0.00448		0.000500		mg/L	1		6020A	Total/NA
Chromium	0.0230		0.00500		mg/L	1		6020A	Total/NA
Lead	0.0423		0.000500		mg/L	1		6020A	Total/NA
Arsenic	0.00423		0.00200		mg/L	1		6020A	Dissolved
Barium	0.0550		0.00200		mg/L	1		6020A	Dissolved

Client Sample ID: GP-6

Lab Sample ID: 310-91288-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0377		0.00200		mg/L	1		6020A	Total/NA
Barium	0.266		0.00200		mg/L	1		6020A	Total/NA
Cadmium	0.00288		0.000500		mg/L	1		6020A	Total/NA
Chromium	0.0438		0.00500		mg/L	1		6020A	Total/NA
Lead	0.0944		0.000500		mg/L	1		6020A	Total/NA
Arsenic	0.00489		0.00200		mg/L	1		6020A	Dissolved
Barium	0.0670		0.00200		mg/L	1		6020A	Dissolved

Client Sample ID: GP-7

Lab Sample ID: 310-91288-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00511		0.00200		mg/L	1		6020A	Total/NA
Barium	1.12		0.00200		mg/L	1		6020A	Total/NA
Cadmium	0.00427		0.000500		mg/L	1		6020A	Total/NA
Chromium	0.00896		0.00500		mg/L	1		6020A	Total/NA
Lead	0.00441		0.000500		mg/L	1		6020A	Total/NA
Arsenic	0.00291		0.00200		mg/L	1		6020A	Dissolved
Barium	0.163		0.00200		mg/L	1		6020A	Dissolved
Lead	0.00103		0.000500		mg/L	1		6020A	Dissolved
Mercury	0.000216		0.000200		mg/L	1		7470A	Total/NA

Client Sample ID: GP-8

Lab Sample ID: 310-91288-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0347		0.00200		mg/L	1		6020A	Total/NA
Barium	0.230		0.00200		mg/L	1		6020A	Total/NA
Cadmium	0.00206		0.000500		mg/L	1		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-8 (Continued)

Lab Sample ID: 310-91288-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0179		0.00500		mg/L	1		6020A	Total/NA
Lead	0.0858		0.000500		mg/L	1		6020A	Total/NA
Arsenic	0.0185		0.00200		mg/L	1		6020A	Dissolved
Barium	0.143		0.00200		mg/L	1		6020A	Dissolved
Cadmium	0.000601		0.000500		mg/L	1		6020A	Dissolved
Chromium	0.00898		0.00500		mg/L	1		6020A	Dissolved
Lead	0.0344		0.000500		mg/L	1		6020A	Dissolved

Client Sample ID: GP-9

Lab Sample ID: 310-91288-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0209		0.00200		mg/L	1		6020A	Total/NA
Barium	0.552		0.00200		mg/L	1		6020A	Total/NA
Cadmium	0.00507		0.000500		mg/L	1		6020A	Total/NA
Chromium	0.0360		0.00500		mg/L	1		6020A	Total/NA
Lead	0.00733		0.000500		mg/L	1		6020A	Total/NA
Arsenic	0.00313		0.00200		mg/L	1		6020A	Dissolved
Barium	0.133		0.00200		mg/L	1		6020A	Dissolved
Lead	0.0126		0.000500		mg/L	1		6020A	Dissolved

Client Sample ID: TB-1 (C13)

Lab Sample ID: 310-91288-11

No Detections.

Client Sample ID: FB-1

Lab Sample ID: 310-91288-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.000871		0.000500		mg/L	1		6020A	Dissolved

Client Sample ID: EB-1

Lab Sample ID: 310-91288-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.000520		0.000500		mg/L	1		6020A	Total/NA

Client Sample ID: Decontamination Fluids

Lab Sample ID: 310-91288-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.000132		0.0000926		mg/L	1		8270D SIM	Total/NA
Phenanthrene	0.000380		0.0000926		mg/L	1		8270D SIM	Total/NA
Pyrene	0.000202		0.0000926		mg/L	1		8270D SIM	Total/NA
PCB-1260	0.00310		0.000755		mg/L	1		8082A	Total/NA
Polychlorinated biphenyls, Total	0.00310		0.000755		mg/L	1		8082A	Total/NA
Arsenic	0.0105		0.00200		mg/L	1		6020A	Total/NA
Barium	0.248		0.00200		mg/L	1		6020A	Total/NA
Cadmium	0.0165		0.000500		mg/L	1		6020A	Total/NA
Chromium	0.0130		0.00500		mg/L	1		6020A	Total/NA
Lead	1.37		0.000500		mg/L	1		6020A	Total/NA
Arsenic	0.00293		0.00200		mg/L	1		6020A	Dissolved
Barium	0.0532		0.00200		mg/L	1		6020A	Dissolved
Cadmium	0.00798		0.000500		mg/L	1		6020A	Dissolved
Lead	0.526		0.000500		mg/L	1		6020A	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: Decontamination Fluids (Continued)

Lab Sample ID: 310-91288-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.000570		0.000200		mg/L	1		7470A	Total/NA

Client Sample ID: TB-2 (8-J)

Lab Sample ID: 310-91288-15

☐ No Detections.

Client Sample ID: TB-3 (17-C)

Lab Sample ID: 310-91288-16

☐ No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-1

Lab Sample ID: 310-91288-1

Date Collected: 10/06/16 12:50

Matrix: Ground Water

Date Received: 10/11/16 10:25

Method: 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0171		0.0100		mg/L			10/12/16 08:58	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 08:58	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 08:58	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 08:58	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 08:58	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 08:58	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 08:58	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 08:58	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 08:58	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 08:58	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 08:58	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 08:58	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 08:58	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 08:58	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 08:58	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 08:58	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 08:58	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 08:58	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 08:58	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 08:58	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 08:58	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 08:58	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 08:58	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 08:58	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 08:58	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-1

Lab Sample ID: 310-91288-1

Date Collected: 10/06/16 12:50

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 08:58	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 08:58	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 08:58	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 08:58	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 08:58	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 08:58	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 08:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		10/12/16 08:58	1
Dibromofluoromethane (Surr)	104		80 - 120		10/12/16 08:58	1
Toluene-d8 (Surr)	89		80 - 120		10/12/16 08:58	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
Acenaphthylene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
Anthracene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
Benzo[a]anthracene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
Benzo[a]pyrene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
Benzo[b]fluoranthene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
Benzo[g,h,i]perylene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
Benzo[k]fluoranthene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
Chrysene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
Dibenz[a,h]anthracene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
Fluoranthene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
Fluorene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
Indeno[1,2,3-cd]pyrene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
2-Methylnaphthalene	<0.000658		0.000658		mg/L		10/12/16 14:21	10/13/16 18:49	1
Naphthalene	<0.000658		0.000658		mg/L		10/12/16 14:21	10/13/16 18:49	1
Phenanthrene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1
Pyrene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	19		14 - 110	10/12/16 14:21	10/13/16 18:49	1
Nitrobenzene-d5 (Surr)	20		10 - 114	10/12/16 14:21	10/13/16 18:49	1
Terphenyl-d14 (Surr)	21	X	24 - 110	10/12/16 14:21	10/13/16 18:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.000976		0.000976		mg/L		10/14/16 15:03	10/17/16 15:48	1
PCB-1221	<0.000976		0.000976		mg/L		10/14/16 15:03	10/17/16 15:48	1
PCB-1232	<0.000976		0.000976		mg/L		10/14/16 15:03	10/17/16 15:48	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-1

Lab Sample ID: 310-91288-1

Date Collected: 10/06/16 12:50

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.000976		0.000976		mg/L		10/14/16 15:03	10/17/16 15:48	1
PCB-1248	<0.000976		0.000976		mg/L		10/14/16 15:03	10/17/16 15:48	1
PCB-1254	<0.000976		0.000976		mg/L		10/14/16 15:03	10/17/16 15:48	1
PCB-1260	<0.000976		0.000976		mg/L		10/14/16 15:03	10/17/16 15:48	1
PCB-1268	<0.000976		0.000976		mg/L		10/14/16 15:03	10/17/16 15:48	1
Polychlorinated biphenyls, Total	<0.000976		0.000976		mg/L		10/14/16 15:03	10/17/16 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	61		10 - 110				10/14/16 15:03	10/17/16 15:48	1
Tetrachloro-m-xylene	64		10 - 110				10/14/16 15:03	10/17/16 15:48	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0975	F1	0.00200		mg/L		10/13/16 10:00	10/13/16 18:28	1
Barium	1.01		0.00200		mg/L		10/13/16 10:00	10/13/16 18:28	1
Cadmium	0.00549		0.000500		mg/L		10/13/16 10:00	10/13/16 18:28	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 18:28	1
Lead	0.00252	F1 F2	0.000500		mg/L		10/13/16 10:00	10/13/16 18:28	1
Selenium	<0.0250		0.0250		mg/L		10/13/16 10:00	10/14/16 12:11	5
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 18:28	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0554	F1	0.00200		mg/L		10/13/16 10:00	10/13/16 20:07	1
Barium	0.0837	F1	0.00200		mg/L		10/13/16 10:00	10/13/16 20:07	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 20:07	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:07	1
Lead	0.00987	F1	0.000500		mg/L		10/13/16 10:00	10/13/16 20:07	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:07	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 20:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	F1	0.000200		mg/L		10/13/16 10:50	10/14/16 12:14	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:55	10/14/16 10:16	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-2

Lab Sample ID: 310-91288-2

Date Collected: 10/06/16 14:20

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 09:21	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 09:21	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 09:21	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 09:21	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 09:21	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 09:21	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 09:21	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 09:21	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 09:21	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 09:21	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 09:21	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 09:21	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 09:21	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 09:21	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 09:21	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 09:21	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 09:21	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 09:21	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 09:21	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 09:21	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 09:21	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 09:21	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 09:21	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 09:21	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 09:21	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-2

Lab Sample ID: 310-91288-2

Date Collected: 10/06/16 14:20

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 09:21	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 09:21	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 09:21	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Trichlorofluoromethane	0.0255		0.00400		mg/L			10/12/16 09:21	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 09:21	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 09:21	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 09:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		10/12/16 09:21	1
Dibromofluoromethane (Surr)	103		80 - 120		10/12/16 09:21	1
Toluene-d8 (Surr)	89		80 - 120		10/12/16 09:21	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
Acenaphthylene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
Anthracene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
Benzo[a]anthracene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
Benzo[a]pyrene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
Benzo[b]fluoranthene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
Benzo[g,h,i]perylene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
Benzo[k]fluoranthene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
Chrysene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
Dibenz[a,h]anthracene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
Fluoranthene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
Fluorene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
Indeno[1,2,3-cd]pyrene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
2-Methylnaphthalene	<0.000500		0.000500		mg/L		10/12/16 14:21	10/13/16 19:10	1
Naphthalene	<0.000500		0.000500		mg/L		10/12/16 14:21	10/13/16 19:10	1
Phenanthrene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1
Pyrene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	32		14 - 110	10/12/16 14:21	10/13/16 19:10	1
Nitrobenzene-d5 (Surr)	33		10 - 114	10/12/16 14:21	10/13/16 19:10	1
Terphenyl-d14 (Surr)	42		24 - 110	10/12/16 14:21	10/13/16 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.000952		0.000952		mg/L		10/14/16 15:03	10/17/16 15:59	1
PCB-1221	<0.000952		0.000952		mg/L		10/14/16 15:03	10/17/16 15:59	1
PCB-1232	<0.000952		0.000952		mg/L		10/14/16 15:03	10/17/16 15:59	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-2

Lab Sample ID: 310-91288-2

Date Collected: 10/06/16 14:20

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.000952		0.000952		mg/L		10/14/16 15:03	10/17/16 15:59	1
PCB-1248	<0.000952		0.000952		mg/L		10/14/16 15:03	10/17/16 15:59	1
PCB-1254	<0.000952		0.000952		mg/L		10/14/16 15:03	10/17/16 15:59	1
PCB-1260	<0.000952		0.000952		mg/L		10/14/16 15:03	10/17/16 15:59	1
PCB-1268	<0.000952		0.000952		mg/L		10/14/16 15:03	10/17/16 15:59	1
Polychlorinated biphenyls, Total	<0.000952		0.000952		mg/L		10/14/16 15:03	10/17/16 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	42		10 - 110	10/14/16 15:03	10/17/16 15:59	1
Tetrachloro-m-xylene	72		10 - 110	10/14/16 15:03	10/17/16 15:59	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0589		0.00200		mg/L		10/13/16 10:00	10/13/16 18:40	1
Barium	0.352		0.00200		mg/L		10/13/16 10:00	10/13/16 18:40	1
Cadmium	0.00919		0.000500		mg/L		10/13/16 10:00	10/13/16 18:40	1
Chromium	0.00544		0.00500		mg/L		10/13/16 10:00	10/13/16 18:40	1
Lead	0.213		0.000500		mg/L		10/13/16 10:00	10/13/16 18:40	1
Selenium	<0.0250		0.0250		mg/L		10/13/16 10:00	10/14/16 12:21	5
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 18:40	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0240		0.00200		mg/L		10/13/16 10:00	10/13/16 20:29	1
Barium	0.0831		0.00200		mg/L		10/13/16 10:00	10/13/16 20:29	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 20:29	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:29	1
Lead	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 20:29	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:29	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 20:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000551		0.000200		mg/L		10/13/16 10:50	10/14/16 12:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:55	10/14/16 10:21	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-3

Lab Sample ID: 310-91288-3

Date Collected: 10/06/16 12:00

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 09:45	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 09:45	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 09:45	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 09:45	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 09:45	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 09:45	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 09:45	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 09:45	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 09:45	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 09:45	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 09:45	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 09:45	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 09:45	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 09:45	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 09:45	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 09:45	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 09:45	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 09:45	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 09:45	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 09:45	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 09:45	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 09:45	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 09:45	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 09:45	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 09:45	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-3

Lab Sample ID: 310-91288-3

Date Collected: 10/06/16 12:00

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 09:45	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 09:45	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 09:45	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 09:45	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 09:45	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 09:45	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 09:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120		10/12/16 09:45	1
Dibromofluoromethane (Surr)	101		80 - 120		10/12/16 09:45	1
Toluene-d8 (Surr)	90		80 - 120		10/12/16 09:45	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
Acenaphthylene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
Anthracene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
Benzo[a]anthracene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
Benzo[a]pyrene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
Benzo[b]fluoranthene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
Benzo[g,h,i]perylene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
Benzo[k]fluoranthene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
Chrysene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
Dibenz[a,h]anthracene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
Fluoranthene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
Fluorene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
Indeno[1,2,3-cd]pyrene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
2-Methylnaphthalene	<0.000595		0.000595		mg/L		10/12/16 14:21	10/13/16 19:31	1
Naphthalene	<0.000595		0.000595		mg/L		10/12/16 14:21	10/13/16 19:31	1
Phenanthrene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1
Pyrene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	29		14 - 110	10/12/16 14:21	10/13/16 19:31	1
Nitrobenzene-d5 (Surr)	31		10 - 114	10/12/16 14:21	10/13/16 19:31	1
Terphenyl-d14 (Surr)	33		24 - 110	10/12/16 14:21	10/13/16 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.000833		0.000833		mg/L		10/14/16 15:03	10/17/16 16:10	1
PCB-1221	<0.000833		0.000833		mg/L		10/14/16 15:03	10/17/16 16:10	1
PCB-1232	<0.000833		0.000833		mg/L		10/14/16 15:03	10/17/16 16:10	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-3

Lab Sample ID: 310-91288-3

Date Collected: 10/06/16 12:00

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.000833		0.000833		mg/L		10/14/16 15:03	10/17/16 16:10	1
PCB-1248	<0.000833		0.000833		mg/L		10/14/16 15:03	10/17/16 16:10	1
PCB-1254	<0.000833		0.000833		mg/L		10/14/16 15:03	10/17/16 16:10	1
PCB-1260	<0.000833		0.000833		mg/L		10/14/16 15:03	10/17/16 16:10	1
PCB-1268	<0.000833		0.000833		mg/L		10/14/16 15:03	10/17/16 16:10	1
Polychlorinated biphenyls, Total	<0.000833		0.000833		mg/L		10/14/16 15:03	10/17/16 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	28		10 - 110	10/14/16 15:03	10/17/16 16:10	1
Tetrachloro-m-xylene	72		10 - 110	10/14/16 15:03	10/17/16 16:10	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0527		0.00200		mg/L		10/13/16 10:00	10/13/16 18:43	1
Barium	0.296		0.00200		mg/L		10/13/16 10:00	10/13/16 18:43	1
Cadmium	0.0109		0.000500		mg/L		10/13/16 10:00	10/13/16 18:43	1
Chromium	0.00633		0.00500		mg/L		10/13/16 10:00	10/13/16 18:43	1
Lead	0.118		0.000500		mg/L		10/13/16 10:00	10/13/16 18:43	1
Selenium	<0.0250		0.0250		mg/L		10/13/16 10:00	10/14/16 12:24	5
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 18:43	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0219		0.00200		mg/L		10/13/16 10:00	10/13/16 20:32	1
Barium	0.0598		0.00200		mg/L		10/13/16 10:00	10/13/16 20:32	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 20:32	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:32	1
Lead	0.000778		0.000500		mg/L		10/13/16 10:00	10/13/16 20:32	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:32	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 20:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000743		0.000200		mg/L		10/13/16 10:50	10/14/16 12:20	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:55	10/14/16 10:22	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-A

Date Collected: 10/06/16 12:00

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-4

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 10:08	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 10:08	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 10:08	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 10:08	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 10:08	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 10:08	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 10:08	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 10:08	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 10:08	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 10:08	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 10:08	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 10:08	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 10:08	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 10:08	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 10:08	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 10:08	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 10:08	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 10:08	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 10:08	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 10:08	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 10:08	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 10:08	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 10:08	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 10:08	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 10:08	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-A

Lab Sample ID: 310-91288-4

Date Collected: 10/06/16 12:00

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 10:08	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 10:08	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 10:08	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 10:08	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 10:08	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 10:08	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 10:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		10/12/16 10:08	1
Dibromofluoromethane (Surr)	103		80 - 120		10/12/16 10:08	1
Toluene-d8 (Surr)	89		80 - 120		10/12/16 10:08	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
Acenaphthylene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
Anthracene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
Benzo[a]anthracene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
Benzo[a]pyrene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
Benzo[b]fluoranthene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
Benzo[g,h,i]perylene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
Benzo[k]fluoranthene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
Chrysene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
Dibenz(a,h)anthracene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
Fluoranthene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
Fluorene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
Indeno[1,2,3-cd]pyrene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
2-Methylnaphthalene	<0.000658		0.000658		mg/L		10/12/16 14:21	10/13/16 19:52	1
Naphthalene	<0.000658		0.000658		mg/L		10/12/16 14:21	10/13/16 19:52	1
Phenanthrene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1
Pyrene	<0.000132		0.000132		mg/L		10/12/16 14:21	10/13/16 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	29		14 - 110	10/12/16 14:21	10/13/16 19:52	1
Nitrobenzene-d5 (Surr)	30		10 - 114	10/12/16 14:21	10/13/16 19:52	1
Terphenyl-d14 (Surr)	27		24 - 110	10/12/16 14:21	10/13/16 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.000909		0.000909		mg/L		10/14/16 15:03	10/17/16 16:20	1
PCB-1221	<0.000909		0.000909		mg/L		10/14/16 15:03	10/17/16 16:20	1
PCB-1232	<0.000909		0.000909		mg/L		10/14/16 15:03	10/17/16 16:20	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-A

Date Collected: 10/06/16 12:00

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-4

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.000909		0.000909		mg/L		10/14/16 15:03	10/17/16 16:20	1
PCB-1248	<0.000909		0.000909		mg/L		10/14/16 15:03	10/17/16 16:20	1
PCB-1254	<0.000909		0.000909		mg/L		10/14/16 15:03	10/17/16 16:20	1
PCB-1260	<0.000909		0.000909		mg/L		10/14/16 15:03	10/17/16 16:20	1
PCB-1268	<0.000909		0.000909		mg/L		10/14/16 15:03	10/17/16 16:20	1
Polychlorinated biphenyls, Total	<0.000909		0.000909		mg/L		10/14/16 15:03	10/17/16 16:20	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	27		10 - 110				10/14/16 15:03	10/17/16 16:20	1
Tetrachloro-m-xylene	74		10 - 110				10/14/16 15:03	10/17/16 16:20	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0570		0.00200		mg/L		10/13/16 10:00	10/13/16 18:55	1
Barium	0.319		0.00200		mg/L		10/13/16 10:00	10/13/16 18:55	1
Cadmium	0.0133		0.000500		mg/L		10/13/16 10:00	10/13/16 18:55	1
Chromium	0.00970		0.00500		mg/L		10/13/16 10:00	10/13/16 18:55	1
Lead	0.278		0.000500		mg/L		10/13/16 10:00	10/13/16 18:55	1
Selenium	<0.0250		0.0250		mg/L		10/13/16 10:00	10/14/16 12:27	5
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 18:55	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0221		0.00200		mg/L		10/13/16 10:00	10/13/16 20:36	1
Barium	0.0651		0.00200		mg/L		10/13/16 10:00	10/13/16 20:36	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 20:36	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:36	1
Lead	0.00163		0.000500		mg/L		10/13/16 10:00	10/13/16 20:36	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:36	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 20:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000604		0.000200		mg/L		10/13/16 10:50	10/14/16 12:22	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:55	10/14/16 10:27	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-4

Lab Sample ID: 310-91288-5

Date Collected: 10/06/16 14:45

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 10:31	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 10:31	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 10:31	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 10:31	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 10:31	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 10:31	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 10:31	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 10:31	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 10:31	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 10:31	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 10:31	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 10:31	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 10:31	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 10:31	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 10:31	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 10:31	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 10:31	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 10:31	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 10:31	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 10:31	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 10:31	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 10:31	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 10:31	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 10:31	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 10:31	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-4

Lab Sample ID: 310-91288-5

Date Collected: 10/06/16 14:45

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 10:31	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 10:31	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 10:31	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 10:31	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 10:31	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 10:31	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 10:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120					10/12/16 10:31	1
Dibromofluoromethane (Surr)	103		80 - 120					10/12/16 10:31	1
Toluene-d8 (Surr)	90		80 - 120					10/12/16 10:31	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Acenaphthylene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Anthracene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Benzo[a]anthracene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Benzo[a]pyrene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Benzo[b]fluoranthene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Benzo[g,h,i]perylene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Benzo[k]fluoranthene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Chrysene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Dibenz(a,h)anthracene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Fluoranthene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Fluorene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Indeno[1,2,3-cd]pyrene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
2-Methylnaphthalene	<0.000595		0.000595		mg/L		10/12/16 14:21	10/13/16 20:13	1
Naphthalene	<0.000595		0.000595		mg/L		10/12/16 14:21	10/13/16 20:13	1
Phenanthrene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Pyrene	<0.000119		0.000119		mg/L		10/12/16 14:21	10/13/16 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	60		14 - 110				10/12/16 14:21	10/13/16 20:13	1
Nitrobenzene-d5 (Surr)	61		10 - 114				10/12/16 14:21	10/13/16 20:13	1
Terphenyl-d14 (Surr)	68		24 - 110				10/12/16 14:21	10/13/16 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00105		0.00105		mg/L		10/14/16 15:03	10/17/16 16:45	1
PCB-1221	<0.00105		0.00105		mg/L		10/14/16 15:03	10/17/16 16:45	1
PCB-1232	<0.00105		0.00105		mg/L		10/14/16 15:03	10/17/16 16:45	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-4

Date Collected: 10/06/16 14:45

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-5

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.00105		0.00105		mg/L		10/14/16 15:03	10/17/16 16:45	1
PCB-1248	<0.00105		0.00105		mg/L		10/14/16 15:03	10/17/16 16:45	1
PCB-1254	<0.00105		0.00105		mg/L		10/14/16 15:03	10/17/16 16:45	1
PCB-1260	<0.00105		0.00105		mg/L		10/14/16 15:03	10/17/16 16:45	1
PCB-1268	<0.00105		0.00105		mg/L		10/14/16 15:03	10/17/16 16:45	1
Polychlorinated biphenyls, Total	<0.00105		0.00105		mg/L		10/14/16 15:03	10/17/16 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	49		10 - 110	10/14/16 15:03	10/17/16 16:45	1
Tetrachloro-m-xylene	66		10 - 110	10/14/16 15:03	10/17/16 16:45	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0346		0.00200		mg/L		10/13/16 10:00	10/13/16 18:58	1
Barium	0.276		0.00200		mg/L		10/13/16 10:00	10/13/16 18:58	1
Cadmium	0.00760		0.000500		mg/L		10/13/16 10:00	10/13/16 18:58	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 18:58	1
Lead	0.0413		0.000500		mg/L		10/13/16 10:00	10/13/16 18:58	1
Selenium	<0.0250		0.0250		mg/L		10/13/16 10:00	10/14/16 12:30	5
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 18:58	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00974		0.00200		mg/L		10/13/16 10:00	10/14/16 13:05	1
Barium	0.0699		0.00200		mg/L		10/13/16 10:00	10/14/16 13:05	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/14/16 13:05	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/14/16 13:05	1
Lead	0.000843		0.000500		mg/L		10/13/16 10:00	10/14/16 13:05	1
Selenium	0.00542		0.00500		mg/L		10/13/16 10:00	10/14/16 13:05	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/14/16 13:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:50	10/14/16 12:24	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:55	10/14/16 10:29	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-5

Date Collected: 10/05/16 14:35

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-6

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 10:55	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 10:55	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 10:55	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 10:55	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 10:55	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 10:55	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 10:55	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 10:55	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 10:55	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 10:55	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 10:55	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 10:55	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 10:55	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 10:55	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 10:55	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 10:55	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 10:55	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 10:55	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 10:55	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 10:55	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 10:55	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 10:55	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 10:55	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 10:55	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 10:55	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-5

Date Collected: 10/05/16 14:35

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-6

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 10:55	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 10:55	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 10:55	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 10:55	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 10:55	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 10:55	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 10:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120					10/12/16 10:55	1
Dibromofluoromethane (Surr)	103		80 - 120					10/12/16 10:55	1
Toluene-d8 (Surr)	88		80 - 120					10/12/16 10:55	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Acenaphthylene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Anthracene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Benzo[a]anthracene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Benzo[a]pyrene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Benzo[b]fluoranthene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Benzo[g,h,i]perylene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Benzo[k]fluoranthene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Chrysene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Dibenz(a,h)anthracene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Fluoranthene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Fluorene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Indeno[1,2,3-cd]pyrene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
2-Methylnaphthalene	<0.000481		0.000481		mg/L		10/12/16 14:21	10/13/16 20:35	1
Naphthalene	<0.000481		0.000481		mg/L		10/12/16 14:21	10/13/16 20:35	1
Phenanthrene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Pyrene	<0.0000962		0.0000962		mg/L		10/12/16 14:21	10/13/16 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	26		14 - 110				10/12/16 14:21	10/13/16 20:35	1
Nitrobenzene-d5 (Surr)	27		10 - 114				10/12/16 14:21	10/13/16 20:35	1
Terphenyl-d14 (Surr)	36		24 - 110				10/12/16 14:21	10/13/16 20:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.000800		0.000800		mg/L		10/14/16 15:03	10/18/16 12:39	1
PCB-1221	<0.000800		0.000800		mg/L		10/14/16 15:03	10/18/16 12:39	1
PCB-1232	<0.000800		0.000800		mg/L		10/14/16 15:03	10/18/16 12:39	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-5

Lab Sample ID: 310-91288-6

Date Collected: 10/05/16 14:35

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.000800		0.000800		mg/L		10/14/16 15:03	10/18/16 12:39	1
PCB-1248	<0.000800		0.000800		mg/L		10/14/16 15:03	10/18/16 12:39	1
PCB-1254	<0.000800		0.000800		mg/L		10/14/16 15:03	10/18/16 12:39	1
PCB-1260	<0.000800		0.000800		mg/L		10/14/16 15:03	10/18/16 12:39	1
PCB-1268	<0.000800		0.000800		mg/L		10/14/16 15:03	10/18/16 12:39	1
Polychlorinated biphenyls, Total	<0.000800		0.000800		mg/L		10/14/16 15:03	10/18/16 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	27		10 - 110	10/14/16 15:03	10/18/16 12:39	1
Tetrachloro-m-xylene	63		10 - 110	10/14/16 15:03	10/18/16 12:39	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0361		0.00200		mg/L		10/13/16 10:00	10/13/16 19:02	1
Barium	0.376		0.00200		mg/L		10/13/16 10:00	10/13/16 19:02	1
Cadmium	0.00448		0.000500		mg/L		10/13/16 10:00	10/13/16 19:02	1
Chromium	0.0230		0.00500		mg/L		10/13/16 10:00	10/13/16 19:02	1
Lead	0.0423		0.000500		mg/L		10/13/16 10:00	10/13/16 19:02	1
Selenium	<0.0250		0.0250		mg/L		10/13/16 10:00	10/14/16 12:33	5
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 19:02	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00423		0.00200		mg/L		10/13/16 10:00	10/13/16 20:42	1
Barium	0.0550		0.00200		mg/L		10/13/16 10:00	10/13/16 20:42	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 20:42	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:42	1
Lead	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 20:42	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:42	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 20:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:50	10/14/16 12:25	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:55	10/14/16 10:30	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-6

Lab Sample ID: 310-91288-7

Date Collected: 10/05/16 16:15

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 11:18	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 11:18	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 11:18	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 11:18	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 11:18	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 11:18	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 11:18	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 11:18	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 11:18	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 11:18	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 11:18	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 11:18	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 11:18	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 11:18	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 11:18	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 11:18	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 11:18	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 11:18	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 11:18	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 11:18	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 11:18	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 11:18	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 11:18	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 11:18	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 11:18	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-6

Date Collected: 10/05/16 16:15

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-7

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 11:18	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 11:18	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 11:18	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 11:18	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 11:18	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 11:18	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 11:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		10/12/16 11:18	1
Dibromofluoromethane (Surr)	104		80 - 120		10/12/16 11:18	1
Toluene-d8 (Surr)	89		80 - 120		10/12/16 11:18	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
Acenaphthylene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
Anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
Benzo[a]anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
Benzo[a]pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
Benzo[b]fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
Benzo[g,h,i]perylene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
Benzo[k]fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
Chrysene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
Dibenz[a,h]anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
Fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
Fluorene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
Indeno[1,2,3-cd]pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
2-Methylnaphthalene	<0.000472		0.000472		mg/L		10/12/16 14:21	10/13/16 20:56	1
Naphthalene	<0.000472		0.000472		mg/L		10/12/16 14:21	10/13/16 20:56	1
Phenanthrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1
Pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	34		14 - 110	10/12/16 14:21	10/13/16 20:56	1
Nitrobenzene-d5 (Surr)	35		10 - 114	10/12/16 14:21	10/13/16 20:56	1
Terphenyl-d14 (Surr)	44		24 - 110	10/12/16 14:21	10/13/16 20:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 12:50	1
PCB-1221	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 12:50	1
PCB-1232	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 12:50	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-6

Lab Sample ID: 310-91288-7

Date Collected: 10/05/16 16:15

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 12:50	1
PCB-1248	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 12:50	1
PCB-1254	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 12:50	1
PCB-1260	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 12:50	1
PCB-1268	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 12:50	1
Polychlorinated biphenyls, Total	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 12:50	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	34		10 - 110				10/14/16 15:03	10/18/16 12:50	1
Tetrachloro-m-xylene	45		10 - 110				10/14/16 15:03	10/18/16 12:50	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0377		0.00200		mg/L		10/13/16 10:00	10/13/16 19:05	1
Barium	0.266		0.00200		mg/L		10/13/16 10:00	10/13/16 19:05	1
Cadmium	0.00288		0.000500		mg/L		10/13/16 10:00	10/13/16 19:05	1
Chromium	0.0438		0.00500		mg/L		10/13/16 10:00	10/13/16 19:05	1
Lead	0.0944		0.000500		mg/L		10/13/16 10:00	10/13/16 19:05	1
Selenium	<0.0250		0.0250		mg/L		10/13/16 10:00	10/14/16 12:37	5
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 19:05	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00489		0.00200		mg/L		10/13/16 10:00	10/13/16 20:45	1
Barium	0.0670		0.00200		mg/L		10/13/16 10:00	10/13/16 20:45	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 20:45	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:45	1
Lead	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 20:45	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:45	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 20:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:50	10/14/16 12:27	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:55	10/14/16 10:32	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-7

Date Collected: 10/05/16 17:15

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-8

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 11:41	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 11:41	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 11:41	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 11:41	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 11:41	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 11:41	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 11:41	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 11:41	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 11:41	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 11:41	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 11:41	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 11:41	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 11:41	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 11:41	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 11:41	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 11:41	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 11:41	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 11:41	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 11:41	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 11:41	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 11:41	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 11:41	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 11:41	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 11:41	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 11:41	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-7

Lab Sample ID: 310-91288-8

Date Collected: 10/05/16 17:15

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 11:41	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 11:41	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 11:41	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 11:41	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 11:41	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 11:41	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		10/12/16 11:41	1
Dibromofluoromethane (Surr)	103		80 - 120		10/12/16 11:41	1
Toluene-d8 (Surr)	89		80 - 120		10/12/16 11:41	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
Acenaphthylene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
Anthracene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
Benzo[a]anthracene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
Benzo[a]pyrene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
Benzo[b]fluoranthene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
Benzo[g,h,i]perylene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
Benzo[k]fluoranthene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
Chrysene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
Dibenz(a,h)anthracene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
Fluoranthene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
Fluorene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
Indeno[1,2,3-cd]pyrene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
2-Methylnaphthalene	<0.000500		0.000500		mg/L		10/12/16 14:21	10/13/16 21:17	1
Naphthalene	<0.000500		0.000500		mg/L		10/12/16 14:21	10/13/16 21:17	1
Phenanthrene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1
Pyrene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	37		14 - 110	10/12/16 14:21	10/13/16 21:17	1
Nitrobenzene-d5 (Surr)	39		10 - 114	10/12/16 14:21	10/13/16 21:17	1
Terphenyl-d14 (Surr)	49		24 - 110	10/12/16 14:21	10/13/16 21:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:01	1
PCB-1221	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:01	1
PCB-1232	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:01	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-7

Lab Sample ID: 310-91288-8

Date Collected: 10/05/16 17:15

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:01	1
PCB-1248	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:01	1
PCB-1254	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:01	1
PCB-1260	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:01	1
PCB-1268	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:01	1
Polychlorinated biphenyls, Total	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	39		10 - 110	10/14/16 15:03	10/18/16 13:01	1
Tetrachloro-m-xylene	63		10 - 110	10/14/16 15:03	10/18/16 13:01	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00511		0.00200		mg/L		10/13/16 10:00	10/13/16 19:08	1
Barium	1.12		0.00200		mg/L		10/13/16 10:00	10/13/16 19:08	1
Cadmium	0.00427		0.000500		mg/L		10/13/16 10:00	10/13/16 19:08	1
Chromium	0.00896		0.00500		mg/L		10/13/16 10:00	10/13/16 19:08	1
Lead	0.00441		0.000500		mg/L		10/13/16 10:00	10/13/16 19:08	1
Selenium	<0.0250		0.0250		mg/L		10/13/16 10:00	10/14/16 12:40	5
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 19:08	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00291		0.00200		mg/L		10/13/16 10:00	10/13/16 20:48	1
Barium	0.163		0.00200		mg/L		10/13/16 10:00	10/13/16 20:48	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 20:48	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:48	1
Lead	0.00103		0.000500		mg/L		10/13/16 10:00	10/13/16 20:48	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:48	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 20:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000216		0.000200		mg/L		10/13/16 10:50	10/14/16 12:32	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:55	10/14/16 10:34	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-8

Lab Sample ID: 310-91288-9

Date Collected: 10/06/16 08:15

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 12:05	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 12:05	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 12:05	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 12:05	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 12:05	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 12:05	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 12:05	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 12:05	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 12:05	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 12:05	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 12:05	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 12:05	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 12:05	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 12:05	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 12:05	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 12:05	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 12:05	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 12:05	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 12:05	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 12:05	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 12:05	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 12:05	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 12:05	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 12:05	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 12:05	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-8

Date Collected: 10/06/16 08:15

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-9

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 12:05	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 12:05	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 12:05	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 12:05	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 12:05	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 12:05	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		10/12/16 12:05	1
Dibromofluoromethane (Surr)	106		80 - 120		10/12/16 12:05	1
Toluene-d8 (Surr)	88		80 - 120		10/12/16 12:05	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
Acenaphthylene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
Anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
Benzo[a]anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
Benzo[a]pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
Benzo[b]fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
Benzo[g,h,i]perylene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
Benzo[k]fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
Chrysene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
Dibenz(a,h)anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
Fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
Fluorene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
Indeno[1,2,3-cd]pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
2-Methylnaphthalene	<0.000472		0.000472		mg/L		10/12/16 14:21	10/13/16 21:38	1
Naphthalene	<0.000472		0.000472		mg/L		10/12/16 14:21	10/13/16 21:38	1
Phenanthrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1
Pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	39		14 - 110	10/12/16 14:21	10/13/16 21:38	1
Nitrobenzene-d5 (Surr)	40		10 - 114	10/12/16 14:21	10/13/16 21:38	1
Terphenyl-d14 (Surr)	53		24 - 110	10/12/16 14:21	10/13/16 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:12	1
PCB-1221	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:12	1
PCB-1232	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:12	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-8

Lab Sample ID: 310-91288-9

Date Collected: 10/06/16 08:15

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:12	1
PCB-1248	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:12	1
PCB-1254	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:12	1
PCB-1260	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:12	1
PCB-1268	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:12	1
Polychlorinated biphenyls, Total	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:12	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	25		10 - 110				10/14/16 15:03	10/18/16 13:12	1
Tetrachloro-m-xylene	50		10 - 110				10/14/16 15:03	10/18/16 13:12	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0347		0.00200		mg/L		10/13/16 10:00	10/13/16 19:11	1
Barium	0.230		0.00200		mg/L		10/13/16 10:00	10/13/16 19:11	1
Cadmium	0.00206		0.000500		mg/L		10/13/16 10:00	10/13/16 19:11	1
Chromium	0.0179		0.00500		mg/L		10/13/16 10:00	10/13/16 19:11	1
Lead	0.0858		0.000500		mg/L		10/13/16 10:00	10/13/16 19:11	1
Selenium	<0.0250		0.0250		mg/L		10/13/16 10:00	10/14/16 12:52	5
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 19:11	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0185		0.00200		mg/L		10/13/16 10:00	10/13/16 20:51	1
Barium	0.143		0.00200		mg/L		10/13/16 10:00	10/13/16 20:51	1
Cadmium	0.000601		0.000500		mg/L		10/13/16 10:00	10/13/16 20:51	1
Chromium	0.00898		0.00500		mg/L		10/13/16 10:00	10/13/16 20:51	1
Lead	0.0344		0.000500		mg/L		10/13/16 10:00	10/13/16 20:51	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:51	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 20:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:50	10/14/16 12:33	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:55	10/14/16 10:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-9

Lab Sample ID: 310-91288-10

Date Collected: 10/06/16 09:45

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 12:28	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 12:28	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 12:28	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 12:28	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 12:28	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 12:28	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 12:28	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 12:28	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 12:28	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 12:28	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 12:28	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 12:28	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 12:28	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 12:28	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 12:28	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 12:28	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 12:28	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 12:28	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 12:28	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 12:28	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 12:28	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 12:28	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 12:28	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 12:28	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 12:28	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-9

Date Collected: 10/06/16 09:45

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-10

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 12:28	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 12:28	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 12:28	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 12:28	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 12:28	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 12:28	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		10/12/16 12:28	1
Dibromofluoromethane (Surr)	103		80 - 120		10/12/16 12:28	1
Toluene-d8 (Surr)	90		80 - 120		10/12/16 12:28	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
Acenaphthylene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
Anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
Benzo[a]anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
Benzo[a]pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
Benzo[b]fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
Benzo[g,h,i]perylene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
Benzo[k]fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
Chrysene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
Dibenz(a,h)anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
Fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
Fluorene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
Indeno[1,2,3-cd]pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
2-Methylnaphthalene	<0.000472		0.000472		mg/L		10/12/16 14:21	10/13/16 22:00	1
Naphthalene	<0.000472		0.000472		mg/L		10/12/16 14:21	10/13/16 22:00	1
Phenanthrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1
Pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/13/16 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	36		14 - 110	10/12/16 14:21	10/13/16 22:00	1
Nitrobenzene-d5 (Surr)	37		10 - 114	10/12/16 14:21	10/13/16 22:00	1
Terphenyl-d14 (Surr)	38		24 - 110	10/12/16 14:21	10/13/16 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:23	1
PCB-1221	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:23	1
PCB-1232	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:23	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-9

Lab Sample ID: 310-91288-10

Date Collected: 10/06/16 09:45

Matrix: Ground Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:23	1
PCB-1248	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:23	1
PCB-1254	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:23	1
PCB-1260	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:23	1
PCB-1268	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:23	1
Polychlorinated biphenyls, Total	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	33		10 - 110	10/14/16 15:03	10/18/16 13:23	1
Tetrachloro-m-xylene	49		10 - 110	10/14/16 15:03	10/18/16 13:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0209		0.00200		mg/L		10/13/16 10:00	10/13/16 19:14	1
Barium	0.552		0.00200		mg/L		10/13/16 10:00	10/13/16 19:14	1
Cadmium	0.00507		0.000500		mg/L		10/13/16 10:00	10/13/16 19:14	1
Chromium	0.0360		0.00500		mg/L		10/13/16 10:00	10/13/16 19:14	1
Lead	0.00733		0.000500		mg/L		10/13/16 10:00	10/13/16 19:14	1
Selenium	<0.0250		0.0250		mg/L		10/13/16 10:00	10/14/16 12:55	5
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 19:14	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00313		0.00200		mg/L		10/13/16 10:00	10/13/16 21:04	1
Barium	0.133		0.00200		mg/L		10/13/16 10:00	10/13/16 21:04	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 21:04	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 21:04	1
Lead	0.0126		0.000500		mg/L		10/13/16 10:00	10/13/16 21:04	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 21:04	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 21:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:50	10/14/16 12:35	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:55	10/14/16 10:37	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: TB-1 (C13)

Date Collected: 10/05/16 00:00

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 12:51	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 12:51	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 12:51	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 12:51	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 12:51	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 12:51	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 12:51	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 12:51	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 12:51	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 12:51	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 12:51	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 12:51	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 12:51	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 12:51	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 12:51	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 12:51	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 12:51	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 12:51	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 12:51	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 12:51	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 12:51	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 12:51	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 12:51	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 12:51	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 12:51	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: TB-1 (C13)

Lab Sample ID: 310-91288-11

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 12:51	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 12:51	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 12:51	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 12:51	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 12:51	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 12:51	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 12:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120					10/12/16 12:51	1
Dibromofluoromethane (Surr)	102		80 - 120					10/12/16 12:51	1
Toluene-d8 (Surr)	88		80 - 120					10/12/16 12:51	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: FB-1

Lab Sample ID: 310-91288-12

Date Collected: 10/06/16 07:30

Matrix: Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 13:15	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 13:15	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 13:15	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 13:15	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 13:15	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 13:15	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 13:15	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 13:15	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 13:15	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 13:15	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 13:15	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 13:15	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 13:15	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 13:15	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 13:15	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 13:15	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 13:15	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 13:15	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 13:15	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 13:15	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 13:15	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 13:15	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 13:15	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 13:15	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 13:15	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: FB-1

Lab Sample ID: 310-91288-12

Date Collected: 10/06/16 07:30

Matrix: Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 13:15	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 13:15	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 13:15	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 13:15	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 13:15	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 13:15	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		10/12/16 13:15	1
Dibromofluoromethane (Surr)	104		80 - 120		10/12/16 13:15	1
Toluene-d8 (Surr)	88		80 - 120		10/12/16 13:15	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
Acenaphthylene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
Anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
Benzo[a]anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
Benzo[a]pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
Benzo[b]fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
Benzo[g,h,i]perylene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
Benzo[k]fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
Chrysene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
Dibenz(a,h)anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
Fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
Fluorene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
Indeno[1,2,3-cd]pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
2-Methylnaphthalene	<0.000472		0.000472		mg/L		10/12/16 14:21	10/14/16 11:20	1
Naphthalene	<0.000472		0.000472		mg/L		10/12/16 14:21	10/14/16 11:20	1
Phenanthrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1
Pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	39		14 - 110	10/12/16 14:21	10/14/16 11:20	1
Nitrobenzene-d5 (Surr)	42		10 - 114	10/12/16 14:21	10/14/16 11:20	1
Terphenyl-d14 (Surr)	52		24 - 110	10/12/16 14:21	10/14/16 11:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:33	1
PCB-1221	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:33	1
PCB-1232	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:33	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: FB-1

Date Collected: 10/06/16 07:30

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:33	1
PCB-1248	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:33	1
PCB-1254	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:33	1
PCB-1260	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:33	1
PCB-1268	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:33	1
Polychlorinated biphenyls, Total	<0.000769		0.000769		mg/L		10/14/16 15:03	10/18/16 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	65		10 - 110	10/14/16 15:03	10/18/16 13:33	1
Tetrachloro-m-xylene	67		10 - 110	10/14/16 15:03	10/18/16 13:33	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		10/13/16 10:00	10/13/16 19:17	1
Barium	<0.00200		0.00200		mg/L		10/13/16 10:00	10/13/16 19:17	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 19:17	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 19:17	1
Lead	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 19:17	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 19:17	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 19:17	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		10/13/16 10:00	10/13/16 21:07	1
Barium	<0.00200		0.00200		mg/L		10/13/16 10:00	10/13/16 21:07	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 21:07	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 21:07	1
Lead	0.000871		0.000500		mg/L		10/13/16 10:00	10/13/16 21:07	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 21:07	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 21:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:50	10/14/16 12:36	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:55	10/14/16 10:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: EB-1

Lab Sample ID: 310-91288-13

Date Collected: 10/06/16 14:55

Matrix: Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 13:38	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 13:38	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 13:38	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 13:38	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 13:38	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 13:38	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 13:38	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 13:38	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 13:38	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 13:38	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 13:38	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 13:38	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 13:38	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 13:38	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 13:38	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 13:38	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 13:38	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 13:38	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 13:38	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 13:38	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 13:38	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 13:38	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 13:38	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 13:38	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 13:38	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: EB-1

Date Collected: 10/06/16 14:55

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 13:38	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 13:38	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 13:38	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 13:38	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 13:38	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 13:38	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		10/12/16 13:38	1
Dibromofluoromethane (Surr)	103		80 - 120		10/12/16 13:38	1
Toluene-d8 (Surr)	89		80 - 120		10/12/16 13:38	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
Acenaphthylene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
Anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
Benzo[a]anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
Benzo[a]pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
Benzo[b]fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
Benzo[g,h,i]perylene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
Benzo[k]fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
Chrysene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
Dibenz[a,h]anthracene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
Fluoranthene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
Fluorene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
Indeno[1,2,3-cd]pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
2-Methylnaphthalene	<0.000472		0.000472		mg/L		10/12/16 14:21	10/14/16 11:41	1
Naphthalene	<0.000472		0.000472		mg/L		10/12/16 14:21	10/14/16 11:41	1
Phenanthrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1
Pyrene	<0.0000943		0.0000943		mg/L		10/12/16 14:21	10/14/16 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		14 - 110	10/12/16 14:21	10/14/16 11:41	1
Nitrobenzene-d5 (Surr)	62		10 - 114	10/12/16 14:21	10/14/16 11:41	1
Terphenyl-d14 (Surr)	64		24 - 110	10/12/16 14:21	10/14/16 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.000741		0.000741		mg/L		10/14/16 15:03	10/18/16 13:44	1
PCB-1221	<0.000741		0.000741		mg/L		10/14/16 15:03	10/18/16 13:44	1
PCB-1232	<0.000741		0.000741		mg/L		10/14/16 15:03	10/18/16 13:44	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: EB-1

Lab Sample ID: 310-91288-13

Date Collected: 10/06/16 14:55

Matrix: Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.000741		0.000741		mg/L		10/14/16 15:03	10/18/16 13:44	1
PCB-1248	<0.000741		0.000741		mg/L		10/14/16 15:03	10/18/16 13:44	1
PCB-1254	<0.000741		0.000741		mg/L		10/14/16 15:03	10/18/16 13:44	1
PCB-1260	<0.000741		0.000741		mg/L		10/14/16 15:03	10/18/16 13:44	1
PCB-1268	<0.000741		0.000741		mg/L		10/14/16 15:03	10/18/16 13:44	1
Polychlorinated biphenyls, Total	<0.000741		0.000741		mg/L		10/14/16 15:03	10/18/16 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	51		10 - 110				10/14/16 15:03	10/18/16 13:44	1
Tetrachloro-m-xylene	45		10 - 110				10/14/16 15:03	10/18/16 13:44	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		10/13/16 10:00	10/13/16 19:23	1
Barium	<0.00200		0.00200		mg/L		10/13/16 10:00	10/13/16 19:23	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 19:23	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 19:23	1
Lead	0.000520		0.000500		mg/L		10/13/16 10:00	10/13/16 19:23	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 19:23	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 19:23	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		10/13/16 10:00	10/13/16 21:13	1
Barium	<0.00200		0.00200		mg/L		10/13/16 10:00	10/13/16 21:13	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 21:13	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 21:13	1
Lead	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 21:13	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 21:13	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 21:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:50	10/14/16 12:38	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:55	10/14/16 10:40	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: Decontamination Fluids

Lab Sample ID: 310-91288-14

Date Collected: 10/06/16 15:05

Matrix: Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.100		0.100		mg/L			10/12/16 15:35	10
Benzene	<0.00500		0.00500		mg/L			10/12/16 15:35	10
Bromobenzene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Bromochloromethane	<0.0500		0.0500		mg/L			10/12/16 15:35	10
Bromodichloromethane	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Bromoform	<0.0500		0.0500		mg/L			10/12/16 15:35	10
Bromomethane	<0.0400		0.0400		mg/L			10/12/16 15:35	10
2-Butanone (MEK)	<0.100		0.100		mg/L			10/12/16 15:35	10
n-Butylbenzene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
sec-Butylbenzene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
tert-Butylbenzene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Carbon disulfide	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Carbon tetrachloride	<0.0200		0.0200		mg/L			10/12/16 15:35	10
Chlorobenzene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Chlorodibromomethane	<0.0500		0.0500		mg/L			10/12/16 15:35	10
Chloroethane	<0.0400		0.0400		mg/L			10/12/16 15:35	10
Chloroform	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Chloromethane	<0.0300		0.0300		mg/L			10/12/16 15:35	10
2-Chlorotoluene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
4-Chlorotoluene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
1,2-Dibromo-3-Chloropropane	<0.0500		0.0500		mg/L			10/12/16 15:35	10
1,2-Dibromoethane (EDB)	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Dibromomethane	<0.0100		0.0100		mg/L			10/12/16 15:35	10
1,2-Dichlorobenzene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
1,3-Dichlorobenzene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
1,4-Dichlorobenzene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Dichlorodifluoromethane	<0.0300		0.0300		mg/L			10/12/16 15:35	10
1,1-Dichloroethane	<0.0100		0.0100		mg/L			10/12/16 15:35	10
1,2-Dichloroethane	<0.0100		0.0100		mg/L			10/12/16 15:35	10
1,1-Dichloroethene	<0.0200		0.0200		mg/L			10/12/16 15:35	10
cis-1,2-Dichloroethene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
trans-1,2-Dichloroethene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
1,2-Dichloropropane	<0.0100		0.0100		mg/L			10/12/16 15:35	10
1,3-Dichloropropane	<0.0100		0.0100		mg/L			10/12/16 15:35	10
2,2-Dichloropropane	<0.0400		0.0400		mg/L			10/12/16 15:35	10
1,1-Dichloropropene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
cis-1,3-Dichloropropene	<0.0500		0.0500		mg/L			10/12/16 15:35	10
trans-1,3-Dichloropropene	<0.0500		0.0500		mg/L			10/12/16 15:35	10
Ethylbenzene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Hexachlorobutadiene	<0.0500		0.0500		mg/L			10/12/16 15:35	10
Hexane	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Isopropylbenzene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
p-Isopropyltoluene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Methylene Chloride	<0.0500		0.0500		mg/L			10/12/16 15:35	10
Methyl tert-butyl ether	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Naphthalene	<0.0500		0.0500		mg/L			10/12/16 15:35	10
N-Propylbenzene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Styrene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
1,1,1,2-Tetrachloroethane	<0.0100		0.0100		mg/L			10/12/16 15:35	10

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: Decontamination Fluids

Lab Sample ID: 310-91288-14

Date Collected: 10/06/16 15:05

Matrix: Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Tetrachloroethene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Toluene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
1,2,3-Trichlorobenzene	<0.0500		0.0500		mg/L			10/12/16 15:35	10
1,2,4-Trichlorobenzene	<0.0500		0.0500		mg/L			10/12/16 15:35	10
1,1,1-Trichloroethane	<0.0100		0.0100		mg/L			10/12/16 15:35	10
1,1,2-Trichloroethane	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Trichloroethene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Trichlorofluoromethane	<0.0400		0.0400		mg/L			10/12/16 15:35	10
1,2,3-Trichloropropane	<0.0100		0.0100		mg/L			10/12/16 15:35	10
1,2,4-Trimethylbenzene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
1,3,5-Trimethylbenzene	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Vinyl chloride	<0.0100		0.0100		mg/L			10/12/16 15:35	10
Xylenes, Total	<0.0300		0.0300		mg/L			10/12/16 15:35	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		80 - 120					10/12/16 15:35	10
Dibromofluoromethane (Surr)	88		80 - 120					10/12/16 15:35	10
Toluene-d8 (Surr)	88		80 - 120					10/12/16 15:35	10

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000926		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Acenaphthylene	<0.0000926		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Anthracene	<0.0000926		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Benzo[a]anthracene	<0.0000926		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Benzo[a]pyrene	<0.0000926		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Benzo[b]fluoranthene	<0.0000926		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Benzo[g,h,i]perylene	<0.0000926		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Benzo[k]fluoranthene	<0.0000926		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Chrysene	<0.0000926		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Dibenz(a,h)anthracene	<0.0000926		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Fluoranthene	<0.0000926		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Fluorene	0.000132		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Indeno[1,2,3-cd]pyrene	<0.0000926		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
2-Methylnaphthalene	<0.000463		0.000463		mg/L		10/12/16 14:21	10/14/16 12:02	1
Naphthalene	<0.000463		0.000463		mg/L		10/12/16 14:21	10/14/16 12:02	1
Phenanthrene	0.000380		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Pyrene	0.000202		0.0000926		mg/L		10/12/16 14:21	10/14/16 12:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	26		14 - 110				10/12/16 14:21	10/14/16 12:02	1
Nitrobenzene-d5 (Surr)	27		10 - 114				10/12/16 14:21	10/14/16 12:02	1
Terphenyl-d14 (Surr)	24		24 - 110				10/12/16 14:21	10/14/16 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:55	1
PCB-1221	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:55	1
PCB-1232	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:55	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: Decontamination Fluids

Lab Sample ID: 310-91288-14

Date Collected: 10/06/16 15:05

Matrix: Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:55	1
PCB-1248	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:55	1
PCB-1254	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:55	1
PCB-1260	0.00310		0.000755		mg/L		10/14/16 15:03	10/18/16 13:55	1
PCB-1268	<0.000755		0.000755		mg/L		10/14/16 15:03	10/18/16 13:55	1
Polychlorinated biphenyls, Total	0.00310		0.000755		mg/L		10/14/16 15:03	10/18/16 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	5	X	10 - 110	10/14/16 15:03	10/18/16 13:55	1
Tetrachloro-m-xylene	30		10 - 110	10/14/16 15:03	10/18/16 13:55	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0105		0.00200		mg/L		10/13/16 10:00	10/13/16 19:36	1
Barium	0.248		0.00200		mg/L		10/13/16 10:00	10/13/16 19:36	1
Cadmium	0.0165		0.000500		mg/L		10/13/16 10:00	10/13/16 19:36	1
Chromium	0.0130		0.00500		mg/L		10/13/16 10:00	10/13/16 19:36	1
Lead	1.37		0.000500		mg/L		10/13/16 10:00	10/13/16 19:36	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 19:36	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 19:36	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00293		0.00200		mg/L		10/13/16 10:00	10/13/16 21:16	1
Barium	0.0532		0.00200		mg/L		10/13/16 10:00	10/13/16 21:16	1
Cadmium	0.00798		0.000500		mg/L		10/13/16 10:00	10/13/16 21:16	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 21:16	1
Lead	0.526		0.000500		mg/L		10/13/16 10:00	10/13/16 21:16	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 21:16	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 21:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000570		0.000200		mg/L		10/13/16 10:50	10/14/16 12:39	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:55	10/14/16 10:42	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: TB-2 (8-J)

Lab Sample ID: 310-91288-15

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 14:01	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 14:01	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 14:01	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 14:01	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 14:01	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 14:01	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 14:01	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 14:01	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 14:01	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 14:01	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 14:01	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 14:01	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 14:01	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 14:01	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 14:01	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 14:01	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 14:01	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 14:01	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 14:01	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 14:01	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 14:01	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 14:01	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 14:01	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 14:01	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 14:01	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: TB-2 (8-J)

Lab Sample ID: 310-91288-15

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/11/16 10:25

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 14:01	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 14:01	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 14:01	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 14:01	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 14:01	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 14:01	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120					10/12/16 14:01	1
Dibromofluoromethane (Surr)	103		80 - 120					10/12/16 14:01	1
Toluene-d8 (Surr)	88		80 - 120					10/12/16 14:01	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: TB-3 (17-C)

Lab Sample ID: 310-91288-16

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/11/16 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 14:25	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 14:25	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 14:25	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 14:25	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 14:25	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 14:25	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 14:25	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 14:25	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 14:25	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 14:25	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 14:25	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 14:25	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 14:25	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 14:25	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 14:25	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 14:25	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 14:25	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 14:25	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 14:25	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 14:25	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 14:25	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 14:25	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 14:25	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 14:25	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 14:25	1

TestAmerica Cedar Falls

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: TB-3 (17-C)

Lab Sample ID: 310-91288-16

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/11/16 10:25

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 14:25	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 14:25	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 14:25	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 14:25	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 14:25	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 14:25	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120					10/12/16 14:25	1
Dibromofluoromethane (Surr)	103		80 - 120					10/12/16 14:25	1
Toluene-d8 (Surr)	89		80 - 120					10/12/16 14:25	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

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

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (80-120)	DBFM (80-120)	TOL (80-120)
310-91288-1	GP-1	104	104	89
310-91288-1MS	GP-1	104	102	89
310-91288-1MSD	GP-1	103	102	89
310-91288-2	GP-2	106	103	89
310-91288-3	GP-3	107	101	90
310-91288-4	GP-A	105	103	89
310-91288-5	GP-4	105	103	90
310-91288-6	GP-5	105	103	88
310-91288-7	GP-6	104	104	89
310-91288-8	GP-7	104	103	89
310-91288-9	GP-8	106	106	88
310-91288-10	GP-9	105	103	90

Surrogate Legend
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (80-120)	DBFM (80-120)	TOL (80-120)
310-91288-11	TB-1 (C13)	105	102	88
310-91288-12	FB-1	105	104	88
310-91288-13	EB-1	103	103	89
310-91288-14	Decontamination Fluids	115	88	88
310-91288-15	TB-2 (8-J)	107	103	88
310-91288-16	TB-3 (17-C)	106	103	89
LCS 310-144210/5	Lab Control Sample	103	101	90
LCS 310-144210/6	Lab Control Sample	105	103	88
MB 310-144210/7	Method Blank	102	105	89

Surrogate Legend
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (14-110)	NBZ (10-114)	TPH (24-110)
310-91288-1	GP-1	19	20	21 X
310-91288-1MS	GP-1	36	36	34
310-91288-1MSD	GP-1	34	35	33
310-91288-2	GP-2	32	33	42
310-91288-3	GP-3	29	31	33

TestAmerica Cedar Falls

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (14-110)	NBZ (10-114)	TPH (24-110)
310-91288-4	GP-A	29	30	27
310-91288-5	GP-4	60	61	68
310-91288-6	GP-5	26	27	36
310-91288-7	GP-6	34	35	44
310-91288-8	GP-7	37	39	49
310-91288-9	GP-8	39	40	53
310-91288-10	GP-9	36	37	38
Surrogate Legend				
FBP = 2-Fluorobiphenyl (Surr)				
NBZ = Nitrobenzene-d5 (Surr)				
TPH = Terphenyl-d14 (Surr)				

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (14-110)	NBZ (10-114)	TPH (24-110)
310-91288-12	FB-1	39	42	52
310-91288-13	EB-1	58	62	64
310-91288-14	Decontamination Fluids	26	27	24
LCS 310-144491/2-A	Lab Control Sample	32	33	52
MB 310-144491/1-A	Method Blank	36	40	49
Surrogate Legend				
FBP = 2-Fluorobiphenyl (Surr)				
NBZ = Nitrobenzene-d5 (Surr)				
TPH = Terphenyl-d14 (Surr)				

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

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (10-110)	TCX1 (10-110)
310-91288-1	GP-1	61	64
310-91288-1MS	GP-1	64	68
310-91288-1MSD	GP-1	65	72
310-91288-2	GP-2	42	72
310-91288-3	GP-3	28	72
310-91288-4	GP-A	27	74
310-91288-5	GP-4	49	66
310-91288-6	GP-5	27	63
310-91288-7	GP-6	34	45
310-91288-8	GP-7	39	63
310-91288-9	GP-8	25	50
310-91288-10	GP-9	33	49
Surrogate Legend			

TestAmerica Cedar Falls

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB1	TCX1
		(10-110)	(10-110)
310-91288-12	FB-1	65	67
310-91288-13	EB-1	51	45
310-91288-14	Decontamination Fluids	5 X	30
LCS 310-144842/2-A	Lab Control Sample	78	65
MB 310-144842/1-A	Method Blank	77	64

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

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

Lab Sample ID: MB 310-144210/7

Matrix: Water

Analysis Batch: 144210

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0100		0.0100		mg/L			10/12/16 08:11	1
Benzene	<0.000500		0.000500		mg/L			10/12/16 08:11	1
Bromobenzene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Bromochloromethane	<0.00500		0.00500		mg/L			10/12/16 08:11	1
Bromodichloromethane	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Bromoform	<0.00500		0.00500		mg/L			10/12/16 08:11	1
Bromomethane	<0.00400		0.00400		mg/L			10/12/16 08:11	1
2-Butanone (MEK)	<0.0100		0.0100		mg/L			10/12/16 08:11	1
n-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
sec-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
tert-Butylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Carbon disulfide	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Carbon tetrachloride	<0.00200		0.00200		mg/L			10/12/16 08:11	1
Chlorobenzene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Chlorodibromomethane	<0.00500		0.00500		mg/L			10/12/16 08:11	1
Chloroethane	<0.00400		0.00400		mg/L			10/12/16 08:11	1
Chloroform	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Chloromethane	<0.00300		0.00300		mg/L			10/12/16 08:11	1
2-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
4-Chlorotoluene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
1,2-Dibromo-3-Chloropropane	<0.00500		0.00500		mg/L			10/12/16 08:11	1
1,2-Dibromoethane (EDB)	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Dibromomethane	<0.00100		0.00100		mg/L			10/12/16 08:11	1
1,2-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
1,3-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
1,4-Dichlorobenzene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Dichlorodifluoromethane	<0.00300		0.00300		mg/L			10/12/16 08:11	1
1,1-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 08:11	1
1,2-Dichloroethane	<0.00100		0.00100		mg/L			10/12/16 08:11	1
1,1-Dichloroethene	<0.00200		0.00200		mg/L			10/12/16 08:11	1
cis-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
trans-1,2-Dichloroethene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
1,2-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 08:11	1
1,3-Dichloropropane	<0.00100		0.00100		mg/L			10/12/16 08:11	1
2,2-Dichloropropane	<0.00400		0.00400		mg/L			10/12/16 08:11	1
1,1-Dichloropropene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
cis-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 08:11	1
trans-1,3-Dichloropropene	<0.00500		0.00500		mg/L			10/12/16 08:11	1
Ethylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Hexachlorobutadiene	<0.00500		0.00500		mg/L			10/12/16 08:11	1
Hexane	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Isopropylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
p-Isopropyltoluene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Methylene Chloride	<0.00500		0.00500		mg/L			10/12/16 08:11	1
Methyl tert-butyl ether	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Naphthalene	<0.00500		0.00500		mg/L			10/12/16 08:11	1
N-Propylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Styrene	<0.00100		0.00100		mg/L			10/12/16 08:11	1

TestAmerica Cedar Falls

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

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

Lab Sample ID: MB 310-144210/7
Matrix: Water
Analysis Batch: 144210

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 08:11	1
1,1,2,2-Tetrachloroethane	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Tetrachloroethene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Toluene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
1,2,3-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 08:11	1
1,2,4-Trichlorobenzene	<0.00500		0.00500		mg/L			10/12/16 08:11	1
1,1,1-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 08:11	1
1,1,2-Trichloroethane	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Trichloroethene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Trichlorofluoromethane	<0.00400		0.00400		mg/L			10/12/16 08:11	1
1,2,3-Trichloropropane	<0.00100		0.00100		mg/L			10/12/16 08:11	1
1,2,4-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
1,3,5-Trimethylbenzene	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Vinyl chloride	<0.00100		0.00100		mg/L			10/12/16 08:11	1
Xylenes, Total	<0.00300		0.00300		mg/L			10/12/16 08:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		10/12/16 08:11	1
Dibromofluoromethane (Surr)	105		80 - 120		10/12/16 08:11	1
Toluene-d8 (Surr)	89		80 - 120		10/12/16 08:11	1

Lab Sample ID: LCS 310-144210/5
Matrix: Water
Analysis Batch: 144210

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.04093		mg/L		102	55 - 150
Benzene	0.0200	0.01973		mg/L		99	70 - 125
Bromobenzene	0.0200	0.01999		mg/L		100	70 - 120
Bromochloromethane	0.0200	0.02249		mg/L		112	65 - 145
Bromodichloromethane	0.0200	0.01887		mg/L		94	65 - 125
Bromoform	0.0200	0.01759		mg/L		88	45 - 120
2-Butanone (MEK)	0.0400	0.03628		mg/L		91	60 - 135
n-Butylbenzene	0.0200	0.01740		mg/L		87	60 - 135
sec-Butylbenzene	0.0200	0.01843		mg/L		92	70 - 125
tert-Butylbenzene	0.0200	0.01894		mg/L		95	70 - 125
Carbon disulfide	0.0200	0.01930		mg/L		96	65 - 135
Carbon tetrachloride	0.0200	0.02102		mg/L		105	60 - 135
Chlorobenzene	0.0200	0.01993		mg/L		100	70 - 125
Chlorodibromomethane	0.0200	0.01837		mg/L		92	65 - 125
Chloroform	0.0200	0.01997		mg/L		100	70 - 130
2-Chlorotoluene	0.0200	0.01776		mg/L		89	70 - 120
4-Chlorotoluene	0.0200	0.01718		mg/L		86	70 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.01191		mg/L		60	40 - 135
1,2-Dibromoethane (EDB)	0.0200	0.01981		mg/L		99	75 - 125
Dibromomethane	0.0200	0.02085		mg/L		104	75 - 130
1,2-Dichlorobenzene	0.0200	0.02013		mg/L		101	70 - 120
1,3-Dichlorobenzene	0.0200	0.02057		mg/L		103	70 - 125

TestAmerica Cedar Falls

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

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

Lab Sample ID: LCS 310-144210/5

Matrix: Water

Analysis Batch: 144210

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0200	0.01997		mg/L		100	70 - 125
1,1-Dichloroethane	0.0200	0.01904		mg/L		95	70 - 130
1,2-Dichloroethane	0.0200	0.01787		mg/L		89	70 - 130
1,1-Dichloroethene	0.0200	0.02112		mg/L		106	65 - 140
cis-1,2-Dichloroethene	0.0200	0.02152		mg/L		108	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02051		mg/L		103	65 - 135
1,2-Dichloropropane	0.0200	0.01863		mg/L		93	70 - 125
1,3-Dichloropropane	0.0200	0.01958		mg/L		98	75 - 125
2,2-Dichloropropane	0.0200	0.02028		mg/L		101	55 - 140
1,1-Dichloropropene	0.0200	0.02054		mg/L		103	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01808		mg/L		90	60 - 130
trans-1,3-Dichloropropene	0.0200	0.01774		mg/L		89	65 - 120
Ethylbenzene	0.0200	0.01859		mg/L		93	70 - 125
Hexachlorobutadiene	0.0200	0.02440		mg/L		122	60 - 125
Hexane	0.0200	0.01944		mg/L		97	55 - 145
Isopropylbenzene	0.0200	0.01853		mg/L		93	75 - 125
p-Isopropyltoluene	0.0200	0.01867		mg/L		93	70 - 125
Methylene Chloride	0.0200	0.02041		mg/L		102	50 - 140
Methyl tert-butyl ether	0.0200	0.01865		mg/L		93	70 - 125
Naphthalene	0.0200	0.01911		mg/L		96	45 - 130
N-Propylbenzene	0.0200	0.01837		mg/L		92	75 - 125
Styrene	0.0200	0.01780		mg/L		89	70 - 120
1,1,1,2-Tetrachloroethane	0.0200	0.01943		mg/L		97	70 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.01740		mg/L		87	65 - 125
Tetrachloroethene	0.0200	0.02451		mg/L		123	55 - 150
Toluene	0.0200	0.02002		mg/L		100	75 - 125
1,2,3-Trichlorobenzene	0.0200	0.02116		mg/L		106	60 - 125
1,2,4-Trichlorobenzene	0.0200	0.02103		mg/L		105	60 - 125
1,1,1-Trichloroethane	0.0200	0.02059		mg/L		103	70 - 130
1,1,2-Trichloroethane	0.0200	0.01956		mg/L		98	70 - 130
Trichloroethene	0.0200	0.02067		mg/L		103	70 - 130
1,2,3-Trichloropropane	0.0200	0.01642		mg/L		82	65 - 130
1,2,4-Trimethylbenzene	0.0200	0.01814		mg/L		91	70 - 125
1,3,5-Trimethylbenzene	0.0200	0.01830		mg/L		91	75 - 125
Xylenes, Total	0.0400	0.03711		mg/L		93	75 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	90		80 - 120

Lab Sample ID: LCS 310-144210/6

Matrix: Water

Analysis Batch: 144210

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	0.0200	0.01044		mg/L		52	35 - 130
Chloroethane	0.0200	0.01530		mg/L		76	55 - 140

TestAmerica Cedar Falls

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

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

Lab Sample ID: LCS 310-144210/6

Matrix: Water

Analysis Batch: 144210

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	0.0200	0.01555		mg/L		78	40 - 135
Dichlorodifluoromethane	0.0200	0.01981		mg/L		99	35 - 130
Trichlorofluoromethane	0.0200	0.01550		mg/L		78	50 - 145
Vinyl chloride	0.0200	0.01518		mg/L		76	50 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	88		80 - 120

Lab Sample ID: 310-91288-1MS

Matrix: Ground Water

Analysis Batch: 144210

Client Sample ID: GP-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0171		0.0400	0.04280		mg/L		64	50 - 150
Benzene	<0.000500		0.0200	0.01885		mg/L		94	50 - 135
Bromobenzene	<0.00100		0.0200	0.01908		mg/L		95	50 - 140
Bromochloromethane	<0.00500		0.0200	0.02104		mg/L		105	50 - 145
Bromodichloromethane	<0.00100		0.0200	0.01698		mg/L		85	50 - 130
Bromoform	<0.00500		0.0200	0.01589		mg/L		79	35 - 125
2-Butanone (MEK)	<0.0100		0.0400	0.02740		mg/L		69	50 - 145
n-Butylbenzene	<0.00100		0.0200	0.01621		mg/L		81	35 - 135
sec-Butylbenzene	<0.00100		0.0200	0.01742		mg/L		87	40 - 125
tert-Butylbenzene	<0.00100		0.0200	0.01757		mg/L		88	45 - 130
Carbon disulfide	<0.00100		0.0200	0.01839		mg/L		92	40 - 135
Carbon tetrachloride	<0.00200		0.0200	0.02061		mg/L		103	45 - 135
Chlorobenzene	<0.00100		0.0200	0.01870		mg/L		94	50 - 135
Chlorodibromomethane	<0.00500		0.0200	0.01805		mg/L		90	45 - 130
Chloroform	<0.00100		0.0200	0.01842		mg/L		92	50 - 130
2-Chlorotoluene	<0.00100		0.0200	0.01631		mg/L		82	45 - 130
4-Chlorotoluene	<0.00100		0.0200	0.01617		mg/L		81	45 - 130
1,2-Dibromo-3-Chloropropane	<0.00500		0.0200	0.009859		mg/L		49	40 - 135
1,2-Dibromoethane (EDB)	<0.00100		0.0200	0.01902		mg/L		95	50 - 140
Dibromomethane	<0.00100		0.0200	0.01877		mg/L		94	55 - 140
1,2-Dichlorobenzene	<0.00100		0.0200	0.01839		mg/L		92	45 - 135
1,3-Dichlorobenzene	<0.00100		0.0200	0.01897		mg/L		95	45 - 140
1,4-Dichlorobenzene	<0.00100		0.0200	0.01828		mg/L		91	45 - 135
1,1-Dichloroethane	<0.00100		0.0200	0.01779		mg/L		89	45 - 140
1,2-Dichloroethane	<0.00100		0.0200	0.01670		mg/L		84	60 - 130
1,1-Dichloroethene	<0.00200		0.0200	0.02064		mg/L		103	45 - 140
cis-1,2-Dichloroethene	<0.00100		0.0200	0.01973		mg/L		99	50 - 135
trans-1,2-Dichloroethene	<0.00100		0.0200	0.01958		mg/L		98	45 - 135
1,2-Dichloropropane	<0.00100		0.0200	0.01742		mg/L		87	55 - 135
1,3-Dichloropropane	<0.00100		0.0200	0.01799		mg/L		90	55 - 135
2,2-Dichloropropane	<0.00400		0.0200	0.01778		mg/L		89	40 - 140
1,1-Dichloropropene	<0.00100		0.0200	0.01920		mg/L		96	50 - 130
cis-1,3-Dichloropropene	<0.00500		0.0200	0.01678		mg/L		84	50 - 130

TestAmerica Cedar Falls

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

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

Lab Sample ID: 310-91288-1MS

Matrix: Ground Water

Analysis Batch: 144210

Client Sample ID: GP-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	<0.00500		0.0200	0.01568		mg/L		78	45 - 125
Ethylbenzene	<0.00100		0.0200	0.01738		mg/L		87	45 - 125
Hexachlorobutadiene	<0.00500		0.0200	0.02184		mg/L		109	35 - 130
Hexane	<0.00100		0.0200	0.01716		mg/L		86	35 - 145
Isopropylbenzene	<0.00100		0.0200	0.01738		mg/L		87	45 - 125
p-Isopropyltoluene	<0.00100		0.0200	0.01728		mg/L		86	45 - 125
Methylene Chloride	<0.00500		0.0200	0.01937		mg/L		97	45 - 140
Methyl tert-butyl ether	<0.00100		0.0200	0.01705		mg/L		85	55 - 130
Naphthalene	<0.00500		0.0200	0.01633		mg/L		82	40 - 135
N-Propylbenzene	<0.00100		0.0200	0.01681		mg/L		84	45 - 125
Styrene	<0.00100		0.0200	0.01661		mg/L		83	45 - 130
1,1,1,2-Tetrachloroethane	<0.00100		0.0200	0.01833		mg/L		92	50 - 130
1,1,2,2-Tetrachloroethane	<0.00100		0.0200	0.01530		mg/L		76	45 - 140
Tetrachloroethene	<0.00100		0.0200	0.02452		mg/L		123	35 - 150
Toluene	<0.00100		0.0200	0.01864		mg/L		93	45 - 130
1,2,3-Trichlorobenzene	<0.00500		0.0200	0.01819		mg/L		91	45 - 140
1,2,4-Trichlorobenzene	<0.00500		0.0200	0.01862		mg/L		93	40 - 135
1,1,1-Trichloroethane	<0.00100		0.0200	0.01942		mg/L		97	50 - 130
1,1,2-Trichloroethane	<0.00100		0.0200	0.01809		mg/L		90	50 - 145
Trichloroethene	<0.00100		0.0200	0.01958		mg/L		98	50 - 130
1,2,3-Trichloropropane	<0.00100		0.0200	0.01521		mg/L		76	45 - 140
1,2,4-Trimethylbenzene	<0.00100		0.0200	0.01664		mg/L		83	45 - 130
1,3,5-Trimethylbenzene	<0.00100		0.0200	0.01720		mg/L		86	10 - 125
Xylenes, Total	<0.00300		0.0400	0.03445		mg/L		86	45 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	89		80 - 120

Lab Sample ID: 310-91288-1MSD

Matrix: Ground Water

Analysis Batch: 144210

Client Sample ID: GP-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0171		0.0400	0.04744		mg/L		76	50 - 150	10	30
Benzene	<0.000500		0.0200	0.01875		mg/L		94	50 - 135	1	15
Bromobenzene	<0.00100		0.0200	0.02009		mg/L		100	50 - 140	5	15
Bromochloromethane	<0.00500		0.0200	0.02192		mg/L		110	50 - 145	4	20
Bromodichloromethane	<0.00100		0.0200	0.01790		mg/L		90	50 - 130	5	15
Bromoform	<0.00500		0.0200	0.01681		mg/L		84	35 - 125	6	20
2-Butanone (MEK)	<0.0100		0.0400	0.03173		mg/L		79	50 - 145	15	35
n-Butylbenzene	<0.00100		0.0200	0.01626		mg/L		81	35 - 135	0	25
sec-Butylbenzene	<0.00100		0.0200	0.01747		mg/L		87	40 - 125	0	25
tert-Butylbenzene	<0.00100		0.0200	0.01787		mg/L		89	45 - 130	2	25
Carbon disulfide	<0.00100		0.0200	0.01828		mg/L		91	40 - 135	1	35
Carbon tetrachloride	<0.00200		0.0200	0.01978		mg/L		99	45 - 135	4	20
Chlorobenzene	<0.00100		0.0200	0.01892		mg/L		95	50 - 135	1	20

TestAmerica Cedar Falls

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

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

Lab Sample ID: 310-91288-1MSD

Matrix: Ground Water

Analysis Batch: 144210

Client Sample ID: GP-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorodibromomethane	<0.00500		0.0200	0.01880		mg/L		94	45 - 130	4	15
Chloroform	<0.00100		0.0200	0.01848		mg/L		92	50 - 130	0	15
2-Chlorotoluene	<0.00100		0.0200	0.01694		mg/L		85	45 - 130	4	20
4-Chlorotoluene	<0.00100		0.0200	0.01633		mg/L		82	45 - 130	1	20
1,2-Dibromo-3-Chloropropane	<0.00500		0.0200	0.009104		mg/L		46	40 - 135	8	35
1,2-Dibromoethane (EDB)	<0.00100		0.0200	0.01987		mg/L		99	50 - 140	4	15
Dibromomethane	<0.00100		0.0200	0.01963		mg/L		98	55 - 140	5	20
1,2-Dichlorobenzene	<0.00100		0.0200	0.01882		mg/L		94	45 - 135	2	15
1,3-Dichlorobenzene	<0.00100		0.0200	0.01985		mg/L		99	45 - 140	5	20
1,4-Dichlorobenzene	<0.00100		0.0200	0.01892		mg/L		95	45 - 135	3	20
1,1-Dichloroethane	<0.00100		0.0200	0.01812		mg/L		91	45 - 140	2	15
1,2-Dichloroethane	<0.00100		0.0200	0.01756		mg/L		88	60 - 130	5	15
1,1-Dichloroethene	<0.00200		0.0200	0.02027		mg/L		101	45 - 140	2	20
cis-1,2-Dichloroethene	<0.00100		0.0200	0.02031		mg/L		102	50 - 135	3	15
trans-1,2-Dichloroethene	<0.00100		0.0200	0.01940		mg/L		97	45 - 135	1	20
1,2-Dichloropropane	<0.00100		0.0200	0.01790		mg/L		90	55 - 135	3	15
1,3-Dichloropropane	<0.00100		0.0200	0.01875		mg/L		94	55 - 135	4	20
2,2-Dichloropropane	<0.00400		0.0200	0.01756		mg/L		88	40 - 140	1	20
1,1-Dichloropropene	<0.00100		0.0200	0.01854		mg/L		93	50 - 130	3	20
cis-1,3-Dichloropropene	<0.00500		0.0200	0.01713		mg/L		86	50 - 130	2	15
trans-1,3-Dichloropropene	<0.00500		0.0200	0.01587		mg/L		79	45 - 125	1	20
Ethylbenzene	<0.00100		0.0200	0.01773		mg/L		89	45 - 125	2	20
Hexachlorobutadiene	<0.00500		0.0200	0.02202		mg/L		110	35 - 130	1	35
Hexane	<0.00100		0.0200	0.01628		mg/L		81	35 - 145	5	30
Isopropylbenzene	<0.00100		0.0200	0.01764		mg/L		88	45 - 125	1	20
p-Isopropyltoluene	<0.00100		0.0200	0.01761		mg/L		88	45 - 125	2	20
Methylene Chloride	<0.00500		0.0200	0.01925		mg/L		96	45 - 140	1	15
Methyl tert-butyl ether	<0.00100		0.0200	0.01773		mg/L		89	55 - 130	4	15
Naphthalene	<0.00500		0.0200	0.01694		mg/L		85	40 - 135	4	25
N-Propylbenzene	<0.00100		0.0200	0.01703		mg/L		85	45 - 125	1	20
Styrene	<0.00100		0.0200	0.01703		mg/L		85	45 - 130	2	20
1,1,1,2-Tetrachloroethane	<0.00100		0.0200	0.01884		mg/L		94	50 - 130	3	15
1,1,2,2-Tetrachloroethane	<0.00100		0.0200	0.01645		mg/L		82	45 - 140	7	20
Tetrachloroethene	<0.00100		0.0200	0.02410		mg/L		121	35 - 150	2	20
Toluene	<0.00100		0.0200	0.01909		mg/L		95	45 - 130	2	15
1,2,3-Trichlorobenzene	<0.00500		0.0200	0.01903		mg/L		95	45 - 140	5	25
1,2,4-Trichlorobenzene	<0.00500		0.0200	0.01918		mg/L		96	40 - 135	3	25
1,1,1-Trichloroethane	<0.00100		0.0200	0.01911		mg/L		96	50 - 130	2	15
1,1,2-Trichloroethane	<0.00100		0.0200	0.01890		mg/L		94	50 - 145	4	20
Trichloroethene	<0.00100		0.0200	0.01980		mg/L		99	50 - 130	1	15
1,2,3-Trichloropropane	<0.00100		0.0200	0.01650		mg/L		82	45 - 140	8	25
1,2,4-Trimethylbenzene	<0.00100		0.0200	0.01716		mg/L		86	45 - 130	3	20
1,3,5-Trimethylbenzene	<0.00100		0.0200	0.01741		mg/L		87	10 - 125	1	35
Xylenes, Total	<0.00300		0.0400	0.03510		mg/L		88	45 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120

TestAmerica Cedar Falls

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

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

Lab Sample ID: 310-91288-1MSD
Matrix: Ground Water
Analysis Batch: 144210

Client Sample ID: GP-1
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	89		80 - 120

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Lab Sample ID: MB 310-144491/1-A
Matrix: Water
Analysis Batch: 144592

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 144491

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Acenaphthene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
Acenaphthylene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
Anthracene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
Benzo[a]anthracene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
Benzo[a]pyrene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
Benzo[b]fluoranthene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
Benzo[g,h,i]perylene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
Benzo[k]fluoranthene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
Chrysene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
Dibenz[a,h]anthracene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
Fluoranthene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
Fluorene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
Indeno[1,2,3-cd]pyrene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
2-Methylnaphthalene	<0.000500		0.000500		mg/L		10/12/16 14:21	10/13/16 17:24	1
Naphthalene	<0.000500		0.000500		mg/L		10/12/16 14:21	10/13/16 17:24	1
Phenanthrene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1
Pyrene	<0.000100		0.000100		mg/L		10/12/16 14:21	10/13/16 17:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	DII Fac
2-Fluorobiphenyl (Surr)	36		14 - 110	10/12/16 14:21	10/13/16 17:24	1
Nitrobenzene-d5 (Surr)	40		10 - 114	10/12/16 14:21	10/13/16 17:24	1
Terphenyl-d14 (Surr)	49		24 - 110	10/12/16 14:21	10/13/16 17:24	1

Lab Sample ID: LCS 310-144491/2-A
Matrix: Water
Analysis Batch: 144592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 144491

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.00200	0.001012		mg/L		51	17 - 110
Acenaphthylene	0.00200	0.0009711		mg/L		49	18 - 110
Anthracene	0.00200	0.001221		mg/L		61	20 - 110
Benzo[a]anthracene	0.00200	0.001580		mg/L		79	28 - 111
Benzo[a]pyrene	0.00200	0.001527		mg/L		76	26 - 110
Benzo[b]fluoranthene	0.00200	0.001506		mg/L		75	27 - 111
Benzo[g,h,i]perylene	0.00200	0.001466		mg/L		73	14 - 110
Benzo[k]fluoranthene	0.00200	0.001708		mg/L		85	25 - 110
Chrysene	0.00200	0.001581		mg/L		79	25 - 110
Dibenz[a,h]anthracene	0.00200	0.001380		mg/L		69	10 - 110

TestAmerica Cedar Falls

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: LCS 310-144491/2-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 144592				Prep Batch: 144491			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	0.00200	0.001472		mg/L		74	26 - 110
Fluorene	0.00200	0.001108		mg/L		55	17 - 110
Indeno[1,2,3-cd]pyrene	0.00200	0.001497		mg/L		75	27 - 110
2-Methylnaphthalene	0.00200	0.0009022		mg/L		45	12 - 110
Naphthalene	0.00200	0.0008976		mg/L		45	12 - 110
Phenanthrene	0.00200	0.001191		mg/L		60	22 - 110
Pyrene	0.00200	0.001476		mg/L		74	23 - 110
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl (Surr)	32		14 - 110				
Nitrobenzene-d5 (Surr)	33		10 - 114				
Terphenyl-d14 (Surr)	52		24 - 110				

Lab Sample ID: 310-91288-1MS				Client Sample ID: GP-1					
Matrix: Ground Water				Prep Type: Total/NA					
Analysis Batch: 144592				Prep Batch: 144491					
	Sample	Sample	Spike	MS	MS			%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthene	0.000006825		0.00278	0.001497		mg/L		54	10 - 110
Acenaphthylene	0.000006473		0.00278	0.001544		mg/L		56	10 - 113
Anthracene	0.000005071		0.00278	0.001754		mg/L		63	10 - 132
Benzo[a]anthracene	-0.00000970		0.00278	0.001780		mg/L		64	14 - 111
	6								
Benzo[a]pyrene	0.000004753		0.00278	0.001214		mg/L		44	10 - 110
Benzo[b]fluoranthene	0.000007322		0.00278	0.001240		mg/L		45	10 - 111
Benzo[g,h,i]perylene	0.000004000		0.00278	0.0008311		mg/L		30	10 - 110
Benzo[k]fluoranthene	0.000003785		0.00278	0.001466		mg/L		53	10 - 110
Chrysene	0.000007039		0.00278	0.001733		mg/L		62	11 - 111
Dibenz(a,h)anthracene	0.000002247		0.00278	0.0008257		mg/L		30	10 - 110
Fluoranthene	0.00001269		0.00278	0.001995		mg/L		72	10 - 150
Fluorene	0.000007657		0.00278	0.001644		mg/L		59	10 - 110
Indeno[1,2,3-cd]pyrene	0.000003235		0.00278	0.0008459		mg/L		30	10 - 110
2-Methylnaphthalene	0.00001091		0.00278	0.001372		mg/L		49	10 - 110
Naphthalene	0.00001525		0.00278	0.001504		mg/L		54	10 - 110
Phenanthrene	0.00001984		0.00278	0.001721		mg/L		62	17 - 110
Pyrene	0.00001224		0.00278	0.001950		mg/L		70	20 - 113
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
2-Fluorobiphenyl (Surr)	36		14 - 110						
Nitrobenzene-d5 (Surr)	36		10 - 114						
Terphenyl-d14 (Surr)	34		24 - 110						

Lab Sample ID: 310-91288-1MSD									Client Sample ID: GP-1		
Matrix: Ground Water									Prep Type: Total/NA		
Analysis Batch: 144592									Prep Batch: 144491		
Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
Acenaphthene	0.000006825		0.00263	0.001347		mg/L		51	10 - 110	11	35

TestAmerica Cedar Falls

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 310-91288-1MSD							Client Sample ID: GP-1				
Matrix: Ground Water							Prep Type: Total/NA				
Analysis Batch: 144592							Prep Batch: 144491				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	0.000006473		0.00263	0.001354		mg/L		51	10 - 113	13	35
Anthracene	0.000005071		0.00263	0.001591		mg/L		60	10 - 132	10	35
Benzo[a]anthracene	-0.00000970		0.00263	0.001716		mg/L		65	14 - 111	4	35
Benzo[a]pyrene	0.000004753	6	0.00263	0.001135		mg/L		43	10 - 110	7	35
Benzo[b]fluoranthene	0.000007322		0.00263	0.001262		mg/L		48	10 - 111	2	35
Benzo[g,h,i]perylene	0.000004000		0.00263	0.0006854		mg/L		26	10 - 110	19	35
Benzo[k]fluoranthene	0.000003785		0.00263	0.001237		mg/L		47	10 - 110	17	35
Chrysene	0.000007039		0.00263	0.001707		mg/L		65	11 - 111	2	35
Dibenz(a,h)anthracene	0.000002247		0.00263	0.0006655		mg/L		25	10 - 110	21	35
Fluoranthene	0.00001269		0.00263	0.001862		mg/L		71	10 - 150	7	35
Fluorene	0.000007657		0.00263	0.001480		mg/L		56	10 - 110	10	35
Indeno[1,2,3-cd]pyrene	0.000003235		0.00263	0.0006826		mg/L		26	10 - 110	21	35
2-Methylnaphthalene	0.00001091		0.00263	0.001186		mg/L		45	10 - 110	15	35
Naphthalene	0.00001525		0.00263	0.001174		mg/L		45	10 - 110	25	35
Phenanthrene	0.00001984		0.00263	0.001586		mg/L		60	17 - 110	8	35
Pyrene	0.00001224		0.00263	0.001852		mg/L		70	20 - 113	5	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
2-Fluorobiphenyl (Surr)	34		14 - 110								
Nitrobenzene-d5 (Surr)	35		10 - 114								
Terphenyl-d14 (Surr)	33		24 - 110								

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

Lab Sample ID: MB 310-144842/1-A							Client Sample ID: Method Blank		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 145030							Prep Batch: 144842		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.000800		0.000800		mg/L		10/14/16 15:03	10/17/16 15:05	1
PCB-1221	<0.000800		0.000800		mg/L		10/14/16 15:03	10/17/16 15:05	1
PCB-1232	<0.000800		0.000800		mg/L		10/14/16 15:03	10/17/16 15:05	1
PCB-1242	<0.000800		0.000800		mg/L		10/14/16 15:03	10/17/16 15:05	1
PCB-1248	<0.000800		0.000800		mg/L		10/14/16 15:03	10/17/16 15:05	1
PCB-1254	<0.000800		0.000800		mg/L		10/14/16 15:03	10/17/16 15:05	1
PCB-1260	<0.000800		0.000800		mg/L		10/14/16 15:03	10/17/16 15:05	1
PCB-1268	<0.000800		0.000800		mg/L		10/14/16 15:03	10/17/16 15:05	1
Polychlorinated biphenyls, Total	<0.000800		0.000800		mg/L		10/14/16 15:03	10/17/16 15:05	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	77		10 - 110				10/14/16 15:03	10/17/16 15:05	1
Tetrachloro-m-xylene	64		10 - 110				10/14/16 15:03	10/17/16 15:05	1

TestAmerica Cedar Falls

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

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

Lab Sample ID: LCS 310-144842/2-A
Matrix: Water
Analysis Batch: 145030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 144842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.0200	0.01448		mg/L		72	30 - 110
PCB-1260	0.0200	0.01569		mg/L		78	30 - 110
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
DCB Decachlorobiphenyl (Surr)	78		10 - 110				
Tetrachloro-m-xylene	65		10 - 110				

Lab Sample ID: 310-91288-1MS
Matrix: Ground Water
Analysis Batch: 145030

Client Sample ID: GP-1
Prep Type: Total/NA
Prep Batch: 144842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	<0.000976		0.0263	0.01919		mg/L		73	30 - 110
PCB-1260	<0.000976		0.0263	0.01956		mg/L		74	30 - 110
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
DCB Decachlorobiphenyl (Surr)	64		10 - 110						
Tetrachloro-m-xylene	68		10 - 110						

Lab Sample ID: 310-91288-1MSD
Matrix: Ground Water
Analysis Batch: 145030

Client Sample ID: GP-1
Prep Type: Total/NA
Prep Batch: 144842

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<0.000976		0.0244	0.01945		mg/L		80	30 - 110	1	35
PCB-1260	<0.000976		0.0244	0.01936		mg/L		79	30 - 110	1	30
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
DCB Decachlorobiphenyl (Surr)	65		10 - 110								
Tetrachloro-m-xylene	72		10 - 110								

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-144522/1-A
Matrix: Water
Analysis Batch: 144741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 144522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		10/13/16 10:00	10/13/16 20:01	1
Barium	<0.00200		0.00200		mg/L		10/13/16 10:00	10/13/16 20:01	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 20:01	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:01	1
Lead	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 20:01	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 20:01	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 20:01	1

TestAmerica Cedar Falls

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

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

Lab Sample ID: LCS 310-144522/2-A

Matrix: Water

Analysis Batch: 144741

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 144522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0400	0.04086		mg/L		102	80 - 120
Barium	0.0400	0.04116		mg/L		103	80 - 120
Cadmium	0.0200	0.02019		mg/L		101	80 - 120
Chromium	0.0400	0.04175		mg/L		104	80 - 120
Lead	0.0200	0.02114		mg/L		106	80 - 120
Selenium	0.0400	0.03841		mg/L		96	80 - 120
Silver	0.0200	0.02085		mg/L		104	80 - 120

Lab Sample ID: 310-91288-12 DU

Matrix: Water

Analysis Batch: 144832

Client Sample ID: FB-1

Prep Type: Total/NA

Prep Batch: 144522

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	<0.00200		<0.00200		mg/L		NC	20
Barium	<0.00200		<0.00200		mg/L		NC	20
Cadmium	<0.000500		<0.000500		mg/L		NC	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Lead	<0.000500		0.001031		mg/L		NC	20
Selenium	<0.00500		<0.00500		mg/L		NC	20
Silver	<0.00100		<0.00100		mg/L		NC	20

Lab Sample ID: MB 310-144523/1-A

Matrix: Water

Analysis Batch: 144741

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 144523

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		10/13/16 10:00	10/13/16 18:21	1
Barium	<0.00200		0.00200		mg/L		10/13/16 10:00	10/13/16 18:21	1
Cadmium	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 18:21	1
Chromium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 18:21	1
Lead	<0.000500		0.000500		mg/L		10/13/16 10:00	10/13/16 18:21	1
Selenium	<0.00500		0.00500		mg/L		10/13/16 10:00	10/13/16 18:21	1
Silver	<0.00100		0.00100		mg/L		10/13/16 10:00	10/13/16 18:21	1

Lab Sample ID: LCS 310-144523/2-A

Matrix: Water

Analysis Batch: 144741

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 144523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0400	0.04183		mg/L		105	80 - 120
Barium	0.0400	0.04253		mg/L		106	80 - 120
Cadmium	0.0200	0.02037		mg/L		102	80 - 120
Chromium	0.0400	0.04175		mg/L		104	80 - 120
Lead	0.0200	0.02160		mg/L		108	80 - 120
Selenium	0.0400	0.03972		mg/L		99	80 - 120
Silver	0.0200	0.02096		mg/L		105	80 - 120

TestAmerica Cedar Falls

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

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

Lab Sample ID: 310-91288-1MS
Matrix: Ground Water
Analysis Batch: 144741

Client Sample ID: GP-1
Prep Type: Total/NA
Prep Batch: 144523

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0975	F1	0.0400	0.1329		mg/L		88	75 - 125
Barium	1.01		0.0400	0.9156	4	mg/L		-235	75 - 125
Cadmium	0.00549		0.0200	0.02440		mg/L		95	75 - 125
Chromium	<0.00500		0.0400	0.04452		mg/L		104	75 - 125
Lead	0.00252	F1 F2	0.0200	0.03414	F1	mg/L		158	75 - 125
Silver	<0.00100		0.0200	0.02035		mg/L		102	75 - 125

Lab Sample ID: 310-91288-1MS
Matrix: Ground Water
Analysis Batch: 144832

Client Sample ID: GP-1
Prep Type: Total/NA
Prep Batch: 144523

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	<0.0250		0.0400	0.04974		mg/L		105	75 - 125

Lab Sample ID: 310-91288-1MSD
Matrix: Ground Water
Analysis Batch: 144741

Client Sample ID: GP-1
Prep Type: Total/NA
Prep Batch: 144523

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0975	F1	0.0400	0.1522	F1	mg/L		137	75 - 125	14	20
Barium	1.01		0.0400	1.066	4	mg/L		142	75 - 125	15	20
Cadmium	0.00549		0.0200	0.02613		mg/L		103	75 - 125	7	20
Chromium	<0.00500		0.0400	0.04137		mg/L		96	75 - 125	7	20
Lead	0.00252	F1 F2	0.0200	0.01909	F2	mg/L		83	75 - 125	57	20
Silver	<0.00100		0.0200	0.01993		mg/L		100	75 - 125	2	20

Lab Sample ID: 310-91288-1MSD
Matrix: Ground Water
Analysis Batch: 144832

Client Sample ID: GP-1
Prep Type: Total/NA
Prep Batch: 144523

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	<0.0250		0.0400	0.04868		mg/L		102	75 - 125	2	20

Lab Sample ID: 310-91288-12 DU
Matrix: Water
Analysis Batch: 144741

Client Sample ID: FB-1
Prep Type: Total/NA
Prep Batch: 144523

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	<0.00200		<0.00200		mg/L		NC	20
Barium	<0.00200		<0.00200		mg/L		NC	20
Cadmium	<0.000500		<0.000500		mg/L		NC	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Selenium	<0.00500		<0.00500		mg/L		NC	20
Silver	<0.00100		<0.00100		mg/L		NC	20

TestAmerica Cedar Falls

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

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

Lab Sample ID: 310-91288-1MS

Matrix: Ground Water

Analysis Batch: 144741

Client Sample ID: GP-1

Prep Type: Dissolved

Prep Batch: 144522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0554	F1	0.0400	0.1127	F1	mg/L		143	75 - 125
Barium	0.0837	F1	0.0400	0.08517	F1	mg/L		4	75 - 125
Cadmium	<0.000500		0.0200	0.02090		mg/L		103	75 - 125
Chromium	<0.00500		0.0400	0.04125		mg/L		95	75 - 125
Lead	0.00987	F1	0.0200	0.02198	F1	mg/L		61	75 - 125
Selenium	<0.00500		0.0400	0.03982		mg/L		90	75 - 125
Silver	<0.00100		0.0200	0.02067		mg/L		103	75 - 125

Lab Sample ID: 310-91288-1MSD

Matrix: Ground Water

Analysis Batch: 144741

Client Sample ID: GP-1

Prep Type: Dissolved

Prep Batch: 144522

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0554	F1	0.0400	0.1325	F1	mg/L		193	75 - 125	16	20
Barium	0.0837	F1	0.0400	0.09168	F1	mg/L		20	75 - 125	7	20
Cadmium	<0.000500		0.0200	0.02081		mg/L		103	75 - 125	0	20
Chromium	<0.00500		0.0400	0.04054		mg/L		93	75 - 125	2	20
Lead	0.00987	F1	0.0200	0.02061	F1	mg/L		54	75 - 125	6	20
Selenium	<0.00500		0.0400	0.04106		mg/L		93	75 - 125	3	20
Silver	<0.00100		0.0200	0.02070		mg/L		103	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-144624/1-A

Matrix: Water

Analysis Batch: 144824

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 144624

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		10/13/16 10:50	10/14/16 12:08	1

Lab Sample ID: LCS 310-144624/2-A

Matrix: Water

Analysis Batch: 144824

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 144624

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00167	0.001529		mg/L		92	80 - 120

Lab Sample ID: 310-91288-1MS

Matrix: Ground Water

Analysis Batch: 144824

Client Sample ID: GP-1

Prep Type: Total/NA

Prep Batch: 144624

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.000200	F1	0.00167	0.001969		mg/L		118	80 - 120

TestAmerica Cedar Falls

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

GC/MS VOA

Analysis Batch: 144210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1	GP-1	Total/NA	Ground Water	8260C	
310-91288-2	GP-2	Total/NA	Ground Water	8260C	
310-91288-3	GP-3	Total/NA	Ground Water	8260C	
310-91288-4	GP-A	Total/NA	Ground Water	8260C	
310-91288-5	GP-4	Total/NA	Ground Water	8260C	
310-91288-6	GP-5	Total/NA	Ground Water	8260C	
310-91288-7	GP-6	Total/NA	Ground Water	8260C	
310-91288-8	GP-7	Total/NA	Ground Water	8260C	
310-91288-9	GP-8	Total/NA	Ground Water	8260C	
310-91288-10	GP-9	Total/NA	Ground Water	8260C	
310-91288-11	TB-1 (C13)	Total/NA	Water	8260C	
310-91288-12	FB-1	Total/NA	Water	8260C	
310-91288-13	EB-1	Total/NA	Water	8260C	
310-91288-14	Decontamination Fluids	Total/NA	Water	8260C	
310-91288-15	TB-2 (8-J)	Total/NA	Water	8260C	
310-91288-16	TB-3 (17-C)	Total/NA	Water	8260C	
MB 310-144210/7	Method Blank	Total/NA	Water	8260C	
LCS 310-144210/5	Lab Control Sample	Total/NA	Water	8260C	
LCS 310-144210/6	Lab Control Sample	Total/NA	Water	8260C	
310-91288-1MS	GP-1	Total/NA	Ground Water	8260C	
310-91288-1MSD	GP-1	Total/NA	Ground Water	8260C	

GC/MS Semi VOA

Prep Batch: 144491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1	GP-1	Total/NA	Ground Water	3510C	
310-91288-2	GP-2	Total/NA	Ground Water	3510C	
310-91288-3	GP-3	Total/NA	Ground Water	3510C	
310-91288-4	GP-A	Total/NA	Ground Water	3510C	
310-91288-5	GP-4	Total/NA	Ground Water	3510C	
310-91288-6	GP-5	Total/NA	Ground Water	3510C	
310-91288-7	GP-6	Total/NA	Ground Water	3510C	
310-91288-8	GP-7	Total/NA	Ground Water	3510C	
310-91288-9	GP-8	Total/NA	Ground Water	3510C	
310-91288-10	GP-9	Total/NA	Ground Water	3510C	
310-91288-12	FB-1	Total/NA	Water	3510C	
310-91288-13	EB-1	Total/NA	Water	3510C	
310-91288-14	Decontamination Fluids	Total/NA	Water	3510C	
MB 310-144491/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-144491/2-A	Lab Control Sample	Total/NA	Water	3510C	
310-91288-1MS	GP-1	Total/NA	Ground Water	3510C	
310-91288-1MSD	GP-1	Total/NA	Ground Water	3510C	

Analysis Batch: 144592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1	GP-1	Total/NA	Ground Water	8270D SIM	144491
310-91288-2	GP-2	Total/NA	Ground Water	8270D SIM	144491
310-91288-3	GP-3	Total/NA	Ground Water	8270D SIM	144491
310-91288-4	GP-A	Total/NA	Ground Water	8270D SIM	144491

TestAmerica Cedar Falls



QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

GC/MS Semi VOA (Continued)

Analysis Batch: 144592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-5	GP-4	Total/NA	Ground Water	8270D SIM	144491
310-91288-6	GP-5	Total/NA	Ground Water	8270D SIM	144491
310-91288-7	GP-6	Total/NA	Ground Water	8270D SIM	144491
310-91288-8	GP-7	Total/NA	Ground Water	8270D SIM	144491
310-91288-9	GP-8	Total/NA	Ground Water	8270D SIM	144491
310-91288-10	GP-9	Total/NA	Ground Water	8270D SIM	144491
MB 310-144491/1-A	Method Blank	Total/NA	Water	8270D SIM	144491
LCS 310-144491/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	144491
310-91288-1MS	GP-1	Total/NA	Ground Water	8270D SIM	144491
310-91288-1MSD	GP-1	Total/NA	Ground Water	8270D SIM	144491

Analysis Batch: 144776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-12	FB-1	Total/NA	Water	8270D SIM	144491
310-91288-13	EB-1	Total/NA	Water	8270D SIM	144491
310-91288-14	Decontamination Fluids	Total/NA	Water	8270D SIM	144491

GC Semi VOA

Prep Batch: 144842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1	GP-1	Total/NA	Ground Water	3510C	
310-91288-2	GP-2	Total/NA	Ground Water	3510C	
310-91288-3	GP-3	Total/NA	Ground Water	3510C	
310-91288-4	GP-A	Total/NA	Ground Water	3510C	
310-91288-5	GP-4	Total/NA	Ground Water	3510C	
310-91288-6	GP-5	Total/NA	Ground Water	3510C	
310-91288-7	GP-6	Total/NA	Ground Water	3510C	
310-91288-8	GP-7	Total/NA	Ground Water	3510C	
310-91288-9	GP-8	Total/NA	Ground Water	3510C	
310-91288-10	GP-9	Total/NA	Ground Water	3510C	
310-91288-12	FB-1	Total/NA	Water	3510C	
310-91288-13	EB-1	Total/NA	Water	3510C	
310-91288-14	Decontamination Fluids	Total/NA	Water	3510C	
MB 310-144842/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-144842/2-A	Lab Control Sample	Total/NA	Water	3510C	
310-91288-1MS	GP-1	Total/NA	Ground Water	3510C	
310-91288-1MSD	GP-1	Total/NA	Ground Water	3510C	

Analysis Batch: 145030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1	GP-1	Total/NA	Ground Water	8082A	144842
310-91288-2	GP-2	Total/NA	Ground Water	8082A	144842
310-91288-3	GP-3	Total/NA	Ground Water	8082A	144842
310-91288-4	GP-A	Total/NA	Ground Water	8082A	144842
310-91288-5	GP-4	Total/NA	Ground Water	8082A	144842
MB 310-144842/1-A	Method Blank	Total/NA	Water	8082A	144842
LCS 310-144842/2-A	Lab Control Sample	Total/NA	Water	8082A	144842
310-91288-1MS	GP-1	Total/NA	Ground Water	8082A	144842
310-91288-1MSD	GP-1	Total/NA	Ground Water	8082A	144842

TestAmerica Cedar Falls

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

GC Semi VOA (Continued)

Analysis Batch: 145145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-6	GP-5	Total/NA	Ground Water	8082A	144842
310-91288-7	GP-6	Total/NA	Ground Water	8082A	144842
310-91288-8	GP-7	Total/NA	Ground Water	8082A	144842
310-91288-9	GP-8	Total/NA	Ground Water	8082A	144842
310-91288-10	GP-9	Total/NA	Ground Water	8082A	144842
310-91288-12	FB-1	Total/NA	Water	8082A	144842
310-91288-13	EB-1	Total/NA	Water	8082A	144842
310-91288-14	Decontamination Fluids	Total/NA	Water	8082A	144842

Metals

Prep Batch: 144522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1	GP-1	Dissolved	Ground Water	3010A	
310-91288-2	GP-2	Dissolved	Ground Water	3010A	
310-91288-3	GP-3	Dissolved	Ground Water	3010A	
310-91288-4	GP-A	Dissolved	Ground Water	3010A	
310-91288-5	GP-4	Dissolved	Ground Water	3010A	
310-91288-6	GP-5	Dissolved	Ground Water	3010A	
310-91288-7	GP-6	Dissolved	Ground Water	3010A	
310-91288-8	GP-7	Dissolved	Ground Water	3010A	
310-91288-9	GP-8	Dissolved	Ground Water	3010A	
310-91288-10	GP-9	Dissolved	Ground Water	3010A	
310-91288-12	FB-1	Dissolved	Water	3010A	
310-91288-13	EB-1	Dissolved	Water	3010A	
310-91288-14	Decontamination Fluids	Dissolved	Water	3010A	
MB 310-144522/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-144522/2-A	Lab Control Sample	Total/NA	Water	3010A	
310-91288-1MS	GP-1	Dissolved	Ground Water	3010A	
310-91288-1MSD	GP-1	Dissolved	Ground Water	3010A	
310-91288-12 DU	FB-1	Total/NA	Water	3010A	

Prep Batch: 144523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1	GP-1	Total/NA	Ground Water	3010A	
310-91288-2	GP-2	Total/NA	Ground Water	3010A	
310-91288-3	GP-3	Total/NA	Ground Water	3010A	
310-91288-4	GP-A	Total/NA	Ground Water	3010A	
310-91288-5	GP-4	Total/NA	Ground Water	3010A	
310-91288-6	GP-5	Total/NA	Ground Water	3010A	
310-91288-7	GP-6	Total/NA	Ground Water	3010A	
310-91288-8	GP-7	Total/NA	Ground Water	3010A	
310-91288-9	GP-8	Total/NA	Ground Water	3010A	
310-91288-10	GP-9	Total/NA	Ground Water	3010A	
310-91288-12	FB-1	Total/NA	Water	3010A	
310-91288-13	EB-1	Total/NA	Water	3010A	
310-91288-14	Decontamination Fluids	Total/NA	Water	3010A	
MB 310-144523/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-144523/2-A	Lab Control Sample	Total/NA	Water	3010A	
310-91288-1MS	GP-1	Total/NA	Ground Water	3010A	

TestAmerica Cedar Falls

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Metals (Continued)

Prep Batch: 144523 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1MSD	GP-1	Total/NA	Ground Water	3010A	
310-91288-12 DU	FB-1	Total/NA	Water	3010A	

Prep Batch: 144624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1	GP-1	Total/NA	Ground Water	7470A	
310-91288-2	GP-2	Total/NA	Ground Water	7470A	
310-91288-3	GP-3	Total/NA	Ground Water	7470A	
310-91288-4	GP-A	Total/NA	Ground Water	7470A	
310-91288-5	GP-4	Total/NA	Ground Water	7470A	
310-91288-6	GP-5	Total/NA	Ground Water	7470A	
310-91288-7	GP-6	Total/NA	Ground Water	7470A	
310-91288-8	GP-7	Total/NA	Ground Water	7470A	
310-91288-9	GP-8	Total/NA	Ground Water	7470A	
310-91288-10	GP-9	Total/NA	Ground Water	7470A	
310-91288-12	FB-1	Total/NA	Water	7470A	
310-91288-13	EB-1	Total/NA	Water	7470A	
310-91288-14	Decontamination Fluids	Total/NA	Water	7470A	
MB 310-144624/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-144624/2-A	Lab Control Sample	Total/NA	Water	7470A	
310-91288-1MS	GP-1	Total/NA	Ground Water	7470A	
310-91288-1MSD	GP-1	Total/NA	Ground Water	7470A	

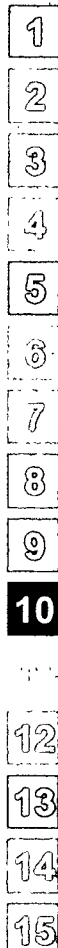
Prep Batch: 144629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1	GP-1	Dissolved	Ground Water	7470A	
310-91288-2	GP-2	Dissolved	Ground Water	7470A	
310-91288-3	GP-3	Dissolved	Ground Water	7470A	
310-91288-4	GP-A	Dissolved	Ground Water	7470A	
310-91288-5	GP-4	Dissolved	Ground Water	7470A	
310-91288-6	GP-5	Dissolved	Ground Water	7470A	
310-91288-7	GP-6	Dissolved	Ground Water	7470A	
310-91288-8	GP-7	Dissolved	Ground Water	7470A	
310-91288-9	GP-8	Dissolved	Ground Water	7470A	
310-91288-10	GP-9	Dissolved	Ground Water	7470A	
310-91288-12	FB-1	Dissolved	Water	7470A	
310-91288-13	EB-1	Dissolved	Water	7470A	
310-91288-14	Decontamination Fluids	Dissolved	Water	7470A	
MB 310-144629/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-144629/2-A	Lab Control Sample	Total/NA	Water	7470A	
310-91288-1MS	GP-1	Dissolved	Ground Water	7470A	
310-91288-1MSD	GP-1	Dissolved	Ground Water	7470A	

Analysis Batch: 144741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1	GP-1	Dissolved	Ground Water	6020A	144522
310-91288-1	GP-1	Total/NA	Ground Water	6020A	144523
310-91288-2	GP-2	Dissolved	Ground Water	6020A	144522
310-91288-2	GP-2	Total/NA	Ground Water	6020A	144523
310-91288-3	GP-3	Dissolved	Ground Water	6020A	144522
310-91288-3	GP-3	Total/NA	Ground Water	6020A	144523

TestAmerica Cedar Falls



QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Metals (Continued)

Analysis Batch: 144741 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-4	GP-A	Dissolved	Ground Water	6020A	144522
310-91288-4	GP-A	Total/NA	Ground Water	6020A	144523
310-91288-5	GP-4	Total/NA	Ground Water	6020A	144523
310-91288-6	GP-5	Dissolved	Ground Water	6020A	144522
310-91288-6	GP-5	Total/NA	Ground Water	6020A	144523
310-91288-7	GP-6	Dissolved	Ground Water	6020A	144522
310-91288-7	GP-6	Total/NA	Ground Water	6020A	144523
310-91288-8	GP-7	Dissolved	Ground Water	6020A	144522
310-91288-8	GP-7	Total/NA	Ground Water	6020A	144523
310-91288-9	GP-8	Dissolved	Ground Water	6020A	144522
310-91288-9	GP-8	Total/NA	Ground Water	6020A	144523
310-91288-10	GP-9	Dissolved	Ground Water	6020A	144522
310-91288-10	GP-9	Total/NA	Ground Water	6020A	144523
310-91288-12	FB-1	Dissolved	Water	6020A	144522
310-91288-12	FB-1	Total/NA	Water	6020A	144523
310-91288-13	EB-1	Dissolved	Water	6020A	144522
310-91288-13	EB-1	Total/NA	Water	6020A	144523
310-91288-14	Decontamination Fluids	Dissolved	Water	6020A	144522
310-91288-14	Decontamination Fluids	Total/NA	Water	6020A	144523
MB 310-144522/1-A	Method Blank	Total/NA	Water	6020A	144522
MB 310-144523/1-A	Method Blank	Total/NA	Water	6020A	144523
LCS 310-144522/2-A	Lab Control Sample	Total/NA	Water	6020A	144522
LCS 310-144523/2-A	Lab Control Sample	Total/NA	Water	6020A	144523
310-91288-1MS	GP-1	Dissolved	Ground Water	6020A	144522
310-91288-1MS	GP-1	Total/NA	Ground Water	6020A	144523
310-91288-1MSD	GP-1	Dissolved	Ground Water	6020A	144522
310-91288-1MSD	GP-1	Total/NA	Ground Water	6020A	144523
310-91288-12 DU	FB-1	Total/NA	Water	6020A	144523

Analysis Batch: 144824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1	GP-1	Total/NA	Ground Water	7470A	144624
310-91288-2	GP-2	Total/NA	Ground Water	7470A	144624
310-91288-3	GP-3	Total/NA	Ground Water	7470A	144624
310-91288-4	GP-A	Total/NA	Ground Water	7470A	144624
310-91288-5	GP-4	Total/NA	Ground Water	7470A	144624
310-91288-6	GP-5	Total/NA	Ground Water	7470A	144624
310-91288-7	GP-6	Total/NA	Ground Water	7470A	144624
310-91288-8	GP-7	Total/NA	Ground Water	7470A	144624
310-91288-9	GP-8	Total/NA	Ground Water	7470A	144624
310-91288-10	GP-9	Total/NA	Ground Water	7470A	144624
310-91288-12	FB-1	Total/NA	Water	7470A	144624
310-91288-13	EB-1	Total/NA	Water	7470A	144624
310-91288-14	Decontamination Fluids	Total/NA	Water	7470A	144624
MB 310-144624/1-A	Method Blank	Total/NA	Water	7470A	144624
LCS 310-144624/2-A	Lab Control Sample	Total/NA	Water	7470A	144624
310-91288-1MS	GP-1	Total/NA	Ground Water	7470A	144624
310-91288-1MSD	GP-1	Total/NA	Ground Water	7470A	144624

TestAmerica Cedar Falls

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Metals (Continued)

Analysis Batch: 144825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1	GP-1	Dissolved	Ground Water	7470A	144629
310-91288-2	GP-2	Dissolved	Ground Water	7470A	144629
310-91288-3	GP-3	Dissolved	Ground Water	7470A	144629
310-91288-4	GP-A	Dissolved	Ground Water	7470A	144629
310-91288-5	GP-4	Dissolved	Ground Water	7470A	144629
310-91288-6	GP-5	Dissolved	Ground Water	7470A	144629
310-91288-7	GP-6	Dissolved	Ground Water	7470A	144629
310-91288-8	GP-7	Dissolved	Ground Water	7470A	144629
310-91288-9	GP-8	Dissolved	Ground Water	7470A	144629
310-91288-10	GP-9	Dissolved	Ground Water	7470A	144629
310-91288-12	FB-1	Dissolved	Water	7470A	144629
310-91288-13	EB-1	Dissolved	Water	7470A	144629
310-91288-14	Decontamination Fluids	Dissolved	Water	7470A	144629
MB 310-144629/1-A	Method Blank	Total/NA	Water	7470A	144629
LCS 310-144629/2-A	Lab Control Sample	Total/NA	Water	7470A	144629
310-91288-1MS	GP-1	Dissolved	Ground Water	7470A	144629
310-91288-1MSD	GP-1	Dissolved	Ground Water	7470A	144629

Analysis Batch: 144832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-91288-1	GP-1	Total/NA	Ground Water	6020A	144523
310-91288-2	GP-2	Total/NA	Ground Water	6020A	144523
310-91288-3	GP-3	Total/NA	Ground Water	6020A	144523
310-91288-4	GP-A	Total/NA	Ground Water	6020A	144523
310-91288-5	GP-4	Dissolved	Ground Water	6020A	144522
310-91288-5	GP-4	Total/NA	Ground Water	6020A	144523
310-91288-6	GP-5	Total/NA	Ground Water	6020A	144523
310-91288-7	GP-6	Total/NA	Ground Water	6020A	144523
310-91288-8	GP-7	Total/NA	Ground Water	6020A	144523
310-91288-9	GP-8	Total/NA	Ground Water	6020A	144523
310-91288-10	GP-9	Total/NA	Ground Water	6020A	144523
310-91288-1MS	GP-1	Total/NA	Ground Water	6020A	144523
310-91288-1MSD	GP-1	Total/NA	Ground Water	6020A	144523
310-91288-12 DU	FB-1	Total/NA	Water	6020A	144522

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-1

Lab Sample ID: 310-91288-1

Date Collected: 10/06/16 12:50

Matrix: Ground Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 08:58	SJN	TAL CF
Total/NA	Prep	3510C			144491	10/12/16 14:21	DEM1	TAL CF
Total/NA	Analysis	8270D SIM		1	144592	10/13/16 18:49	DMD	TAL CF
Total/NA	Prep	3510C			144842	10/14/16 15:03	DEM1	TAL CF
Total/NA	Analysis	8082A		1	145030	10/17/16 15:48	BKT	TAL CF
Dissolved	Prep	3010A			144522	10/13/16 10:00	JNR	TAL CF
Dissolved	Analysis	6020A		1	144741	10/13/16 20:07	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		1	144741	10/13/16 18:28	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		5	144832	10/14/16 12:11	OAD	TAL CF
Dissolved	Prep	7470A			144629	10/13/16 10:55	SAD	TAL CF
Dissolved	Analysis	7470A		1	144825	10/14/16 10:16	OAD	TAL CF
Total/NA	Prep	7470A			144624	10/13/16 10:50	SAD	TAL CF
Total/NA	Analysis	7470A		1	144824	10/14/16 12:14	OAD	TAL CF

Client Sample ID: GP-2

Lab Sample ID: 310-91288-2

Date Collected: 10/06/16 14:20

Matrix: Ground Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 09:21	SJN	TAL CF
Total/NA	Prep	3510C			144491	10/12/16 14:21	DEM1	TAL CF
Total/NA	Analysis	8270D SIM		1	144592	10/13/16 19:10	DMD	TAL CF
Total/NA	Prep	3510C			144842	10/14/16 15:03	DEM1	TAL CF
Total/NA	Analysis	8082A		1	145030	10/17/16 15:59	BKT	TAL CF
Dissolved	Prep	3010A			144522	10/13/16 10:00	JNR	TAL CF
Dissolved	Analysis	6020A		1	144741	10/13/16 20:29	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		1	144741	10/13/16 18:40	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		5	144832	10/14/16 12:21	OAD	TAL CF
Dissolved	Prep	7470A			144629	10/13/16 10:55	SAD	TAL CF
Dissolved	Analysis	7470A		1	144825	10/14/16 10:21	OAD	TAL CF
Total/NA	Prep	7470A			144624	10/13/16 10:50	SAD	TAL CF
Total/NA	Analysis	7470A		1	144824	10/14/16 12:19	OAD	TAL CF

Client Sample ID: GP-3

Lab Sample ID: 310-91288-3

Date Collected: 10/06/16 12:00

Matrix: Ground Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 09:45	SJN	TAL CF

TestAmerica Cedar Falls

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-3

Lab Sample ID: 310-91288-3

Date Collected: 10/06/16 12:00

Matrix: Ground Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			144491	10/12/16 14:21	DEM1	TAL CF
Total/NA	Analysis	8270D SIM		1	144592	10/13/16 19:31	DMD	TAL CF
Total/NA	Prep	3510C			144842	10/14/16 15:03	DEM1	TAL CF
Total/NA	Analysis	8082A		1	145030	10/17/16 16:10	BKT	TAL CF
Dissolved	Prep	3010A			144522	10/13/16 10:00	JNR	TAL CF
Dissolved	Analysis	6020A		1	144741	10/13/16 20:32	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		1	144741	10/13/16 18:43	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		5	144832	10/14/16 12:24	OAD	TAL CF
Dissolved	Prep	7470A			144629	10/13/16 10:55	SAD	TAL CF
Dissolved	Analysis	7470A		1	144825	10/14/16 10:22	OAD	TAL CF
Total/NA	Prep	7470A			144624	10/13/16 10:50	SAD	TAL CF
Total/NA	Analysis	7470A		1	144824	10/14/16 12:20	OAD	TAL CF

Client Sample ID: GP-A

Lab Sample ID: 310-91288-4

Date Collected: 10/06/16 12:00

Matrix: Ground Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 10:08	SJN	TAL CF
Total/NA	Prep	3510C			144491	10/12/16 14:21	DEM1	TAL CF
Total/NA	Analysis	8270D SIM		1	144592	10/13/16 19:52	DMD	TAL CF
Total/NA	Prep	3510C			144842	10/14/16 15:03	DEM1	TAL CF
Total/NA	Analysis	8082A		1	145030	10/17/16 16:20	BKT	TAL CF
Dissolved	Prep	3010A			144522	10/13/16 10:00	JNR	TAL CF
Dissolved	Analysis	6020A		1	144741	10/13/16 20:36	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		1	144741	10/13/16 18:55	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		5	144832	10/14/16 12:27	OAD	TAL CF
Dissolved	Prep	7470A			144629	10/13/16 10:55	SAD	TAL CF
Dissolved	Analysis	7470A		1	144825	10/14/16 10:27	OAD	TAL CF
Total/NA	Prep	7470A			144624	10/13/16 10:50	SAD	TAL CF
Total/NA	Analysis	7470A		1	144824	10/14/16 12:22	OAD	TAL CF

Client Sample ID: GP-4

Lab Sample ID: 310-91288-5

Date Collected: 10/06/16 14:45

Matrix: Ground Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 10:31	SJN	TAL CF
Total/NA	Prep	3510C			144491	10/12/16 14:21	DEM1	TAL CF

TestAmerica Cedar Falls

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-4

Date Collected: 10/06/16 14:45

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D SIM		1	144592	10/13/16 20:13	DMD	TAL CF
Total/NA	Prep	3510C			144842	10/14/16 15:03	DEM1	TAL CF
Total/NA	Analysis	8082A		1	145030	10/17/16 16:45	BKT	TAL CF
Dissolved	Prep	3010A			144522	10/13/16 10:00	JNR	TAL CF
Dissolved	Analysis	6020A		1	144832	10/14/16 13:05	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		1	144741	10/13/16 18:58	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		5	144832	10/14/16 12:30	OAD	TAL CF
Dissolved	Prep	7470A			144629	10/13/16 10:55	SAD	TAL CF
Dissolved	Analysis	7470A		1	144825	10/14/16 10:29	OAD	TAL CF
Total/NA	Prep	7470A			144624	10/13/16 10:50	SAD	TAL CF
Total/NA	Analysis	7470A		1	144824	10/14/16 12:24	OAD	TAL CF

Client Sample ID: GP-5

Date Collected: 10/05/16 14:35

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 10:55	SJN	TAL CF
Total/NA	Prep	3510C			144491	10/12/16 14:21	DEM1	TAL CF
Total/NA	Analysis	8270D SIM		1	144592	10/13/16 20:35	DMD	TAL CF
Total/NA	Prep	3510C			144842	10/14/16 15:03	DEM1	TAL CF
Total/NA	Analysis	8082A		1	145145	10/18/16 12:39	BKT	TAL CF
Dissolved	Prep	3010A			144522	10/13/16 10:00	JNR	TAL CF
Dissolved	Analysis	6020A		1	144741	10/13/16 20:42	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		1	144741	10/13/16 19:02	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		5	144832	10/14/16 12:33	OAD	TAL CF
Dissolved	Prep	7470A			144629	10/13/16 10:55	SAD	TAL CF
Dissolved	Analysis	7470A		1	144825	10/14/16 10:30	OAD	TAL CF
Total/NA	Prep	7470A			144624	10/13/16 10:50	SAD	TAL CF
Total/NA	Analysis	7470A		1	144824	10/14/16 12:25	OAD	TAL CF

Client Sample ID: GP-6

Date Collected: 10/05/16 16:15

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 11:18	SJN	TAL CF
Total/NA	Prep	3510C			144491	10/12/16 14:21	DEM1	TAL CF
Total/NA	Analysis	8270D SIM		1	144592	10/13/16 20:56	DMD	TAL CF

TestAmerica Cedar Falls

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-6

Date Collected: 10/05/16 16:15

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			144842	10/14/16 15:03	DEM1	TAL CF
Total/NA	Analysis	8082A		1	145145	10/18/16 12:50	BKT	TAL CF
Dissolved	Prep	3010A			144522	10/13/16 10:00	JNR	TAL CF
Dissolved	Analysis	6020A		1	144741	10/13/16 20:45	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		1	144741	10/13/16 19:05	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		5	144832	10/14/16 12:37	OAD	TAL CF
Dissolved	Prep	7470A			144629	10/13/16 10:55	SAD	TAL CF
Dissolved	Analysis	7470A		1	144825	10/14/16 10:32	OAD	TAL CF
Total/NA	Prep	7470A			144624	10/13/16 10:50	SAD	TAL CF
Total/NA	Analysis	7470A		1	144824	10/14/16 12:27	OAD	TAL CF

Client Sample ID: GP-7

Date Collected: 10/05/16 17:15

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 11:41	SJN	TAL CF
Total/NA	Prep	3510C			144491	10/12/16 14:21	DEM1	TAL CF
Total/NA	Analysis	8270D SIM		1	144592	10/13/16 21:17	DMD	TAL CF
Total/NA	Prep	3510C			144842	10/14/16 15:03	DEM1	TAL CF
Total/NA	Analysis	8082A		1	145145	10/18/16 13:01	BKT	TAL CF
Dissolved	Prep	3010A			144522	10/13/16 10:00	JNR	TAL CF
Dissolved	Analysis	6020A		1	144741	10/13/16 20:48	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		1	144741	10/13/16 19:08	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		5	144832	10/14/16 12:40	OAD	TAL CF
Dissolved	Prep	7470A			144629	10/13/16 10:55	SAD	TAL CF
Dissolved	Analysis	7470A		1	144825	10/14/16 10:34	OAD	TAL CF
Total/NA	Prep	7470A			144624	10/13/16 10:50	SAD	TAL CF
Total/NA	Analysis	7470A		1	144824	10/14/16 12:32	OAD	TAL CF

Client Sample ID: GP-8

Date Collected: 10/06/16 08:15

Date Received: 10/11/16 10:25

Lab Sample ID: 310-91288-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 12:05	SJN	TAL CF
Total/NA	Prep	3510C			144491	10/12/16 14:21	DEM1	TAL CF
Total/NA	Analysis	8270D SIM		1	144592	10/13/16 21:38	DMD	TAL CF
Total/NA	Prep	3510C			144842	10/14/16 15:03	DEM1	TAL CF

TestAmerica Cedar Falls

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: GP-8

Lab Sample ID: 310-91288-9

Date Collected: 10/06/16 08:15

Matrix: Ground Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082A		1	145145	10/18/16 13:12	BKT	TAL CF
Dissolved	Prep	3010A			144522	10/13/16 10:00	JNR	TAL CF
Dissolved	Analysis	6020A		1	144741	10/13/16 20:51	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		1	144741	10/13/16 19:11	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		5	144832	10/14/16 12:52	OAD	TAL CF
Dissolved	Prep	7470A			144629	10/13/16 10:55	SAD	TAL CF
Dissolved	Analysis	7470A		1	144825	10/14/16 10:35	OAD	TAL CF
Total/NA	Prep	7470A			144624	10/13/16 10:50	SAD	TAL CF
Total/NA	Analysis	7470A		1	144824	10/14/16 12:33	OAD	TAL CF

Client Sample ID: GP-9

Lab Sample ID: 310-91288-10

Date Collected: 10/06/16 09:45

Matrix: Ground Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 12:28	SJN	TAL CF
Total/NA	Prep	3510C			144491	10/12/16 14:21	DEM1	TAL CF
Total/NA	Analysis	8270D SIM		1	144592	10/13/16 22:00	DMD	TAL CF
Total/NA	Prep	3510C			144842	10/14/16 15:03	DEM1	TAL CF
Total/NA	Analysis	8082A		1	145145	10/18/16 13:23	BKT	TAL CF
Dissolved	Prep	3010A			144522	10/13/16 10:00	JNR	TAL CF
Dissolved	Analysis	6020A		1	144741	10/13/16 21:04	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		1	144741	10/13/16 19:14	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		5	144832	10/14/16 12:55	OAD	TAL CF
Dissolved	Prep	7470A			144629	10/13/16 10:55	SAD	TAL CF
Dissolved	Analysis	7470A		1	144825	10/14/16 10:37	OAD	TAL CF
Total/NA	Prep	7470A			144624	10/13/16 10:50	SAD	TAL CF
Total/NA	Analysis	7470A		1	144824	10/14/16 12:35	OAD	TAL CF

Client Sample ID: TB-1 (C13)

Lab Sample ID: 310-91288-11

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 12:51	SJN	TAL CF

TestAmerica Cedar Falls

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: FB-1

Lab Sample ID: 310-91288-12

Date Collected: 10/06/16 07:30

Matrix: Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 13:15	SJN	TAL CF
Total/NA	Prep	3510C			144491	10/12/16 14:21	DEM1	TAL CF
Total/NA	Analysis	8270D SIM		1	144776	10/14/16 11:20	DMD	TAL CF
Total/NA	Prep	3510C			144842	10/14/16 15:03	DEM1	TAL CF
Total/NA	Analysis	8082A		1	145145	10/18/16 13:33	BKT	TAL CF
Dissolved	Prep	3010A			144522	10/13/16 10:00	JNR	TAL CF
Dissolved	Analysis	6020A		1	144741	10/13/16 21:07	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		1	144741	10/13/16 19:17	OAD	TAL CF
Dissolved	Prep	7470A			144629	10/13/16 10:55	SAD	TAL CF
Dissolved	Analysis	7470A		1	144825	10/14/16 10:39	OAD	TAL CF
Total/NA	Prep	7470A			144624	10/13/16 10:50	SAD	TAL CF
Total/NA	Analysis	7470A		1	144824	10/14/16 12:36	OAD	TAL CF

Client Sample ID: EB-1

Lab Sample ID: 310-91288-13

Date Collected: 10/06/16 14:55

Matrix: Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 13:38	SJN	TAL CF
Total/NA	Prep	3510C			144491	10/12/16 14:21	DEM1	TAL CF
Total/NA	Analysis	8270D SIM		1	144776	10/14/16 11:41	DMD	TAL CF
Total/NA	Prep	3510C			144842	10/14/16 15:03	DEM1	TAL CF
Total/NA	Analysis	8082A		1	145145	10/18/16 13:44	BKT	TAL CF
Dissolved	Prep	3010A			144522	10/13/16 10:00	JNR	TAL CF
Dissolved	Analysis	6020A		1	144741	10/13/16 21:13	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		1	144741	10/13/16 19:23	OAD	TAL CF
Dissolved	Prep	7470A			144629	10/13/16 10:55	SAD	TAL CF
Dissolved	Analysis	7470A		1	144825	10/14/16 10:40	OAD	TAL CF
Total/NA	Prep	7470A			144624	10/13/16 10:50	SAD	TAL CF
Total/NA	Analysis	7470A		1	144824	10/14/16 12:38	OAD	TAL CF

Client Sample ID: Decontamination Fluids

Lab Sample ID: 310-91288-14

Date Collected: 10/06/16 15:05

Matrix: Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	144210	10/12/16 15:35	SJN	TAL CF
Total/NA	Prep	3510C			144491	10/12/16 14:21	DEM1	TAL CF
Total/NA	Analysis	8270D SIM		1	144776	10/14/16 12:02	DMD	TAL CF
Total/NA	Prep	3510C			144842	10/14/16 15:03	DEM1	TAL CF
Total/NA	Analysis	8082A		1	145145	10/18/16 13:55	BKT	TAL CF

TestAmerica Cedar Falls

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Client Sample ID: Decontamination Fluids

Lab Sample ID: 310-91288-14

Date Collected: 10/06/16 15:05

Matrix: Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3010A			144522	10/13/16 10:00	JNR	TAL CF
Dissolved	Analysis	6020A		1	144741	10/13/16 21:16	OAD	TAL CF
Total/NA	Prep	3010A			144523	10/13/16 10:00	JNR	TAL CF
Total/NA	Analysis	6020A		1	144741	10/13/16 19:36	OAD	TAL CF
Dissolved	Prep	7470A			144629	10/13/16 10:55	SAD	TAL CF
Dissolved	Analysis	7470A		1	144825	10/14/16 10:42	OAD	TAL CF
Total/NA	Prep	7470A			144624	10/13/16 10:50	SAD	TAL CF
Total/NA	Analysis	7470A		1	144824	10/14/16 12:39	OAD	TAL CF

Client Sample ID: TB-2 (8-J)

Lab Sample ID: 310-91288-15

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 14:01	SJN	TAL CF

Client Sample ID: TB-3 (17-C)

Lab Sample ID: 310-91288-16

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/11/16 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144210	10/12/16 14:25	SJN	TAL CF

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Laboratory: TestAmerica Cedar Falls

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

Authority	Program	EPA Region	Certification ID	Expiration Date
AIHA-LAP, LLC	IHLAP		101044	11-01-16
Georgia	State Program	4	N/A	09-29-17
Illinois	NELAP	5	200024	11-29-16
Iowa	State Program	7	007	12-01-17
Kansas	NELAP	7	E-10341	01-31-17
Minnesota	NELAP	5	019-999-319	12-31-16
Minnesota (Petrofund)	State Program	1	3349	08-22-17
North Dakota	State Program	8	R-186	09-29-16 *
Oregon	NELAP	10	IA100001	09-29-17

* Certification renewal pending - certification considered valid.

TestAmerica Cedar Falls

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: B & T Metals - Gering, NE

TestAmerica Job ID: 310-91288-1
SDG: 05159093

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CF
8270D SIM	Semivolatile Organic Compound (GC/MS SIM LL)	SW846	TAL CF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
6020A	Metals (ICP/MS)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF

Protocol References:

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

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401



310-91288 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information	
Client: <u>Terracon</u>	Project: <u>AP</u>
City/State: <u>Omaha NE</u>	Project: <u>GE Energy B+T</u>
Receipt Information	
Date/Time Received: <u>10-11-16 1325</u>	Received By: <u>KP</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other:	
Condition of Cooler/Containers	
Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: <u>C13</u>
Multiple Coolers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>3</u>
Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Which VOA samples are in cooler? <u>↓</u>
<u>GP-1</u>	
Temperature Record	
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: <input type="checkbox"/> NONE	
Temperature Blank? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ID & Bottle Type:
NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.	
Thermometer ID: <u>H</u>	Correction Factor (°C): <u>+0.0</u>
Uncorrected Temp (°C): <u>1.6</u>	Corrected Temp (°C): <u>1.6</u>
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login	
Additional Comments	

10-11-16
Metals

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Terra con</u>			
City/State: <u>Omaha NE</u>		Project: <u>B + T Metals</u>	
Receipt Information			
Date/Time Received: <u>10-11-16 1025</u>		Received By: <u>KP</u>	
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes: Cooler ID: <u>8-5</u>	
Multiple Coolers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes: Cooler # <u>2</u> of <u>3</u>	
Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes: Which VOA samples are in cooler? ↓	
<u>See below</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Temperature Blank? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		ID & Bottle Type: _____	
NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.			
Thermometer ID: <u>H</u>		Correction Factor (°C): <u>+0.0</u>	
Uncorrected Temp (°C): <u>3.1</u>		Corrected Temp (°C): <u>3.1</u>	
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			
<u>GPA GP5 GP3 GP2</u>			
<u>GP1 (filtered) GP4</u>			

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Terracon</u>			
City/State: <u>Omaha NE</u>		Project: <u>B + T Metals</u>	
Receipt Information			
Date/Time Received: <u>10-11-16 1025</u>		Received By: <u>KP</u>	
Delivery Type: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		If yes: Cooler ID:	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<u>17-C</u>	
Multiple Coolers?		If yes: Cooler #	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<u>3 of 3</u>	
Cooler Custody Seals Present?		If yes: Cooler custody seals intact?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?		If yes: Sample custody seals intact?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?		If yes: Which VOA samples are in cooler?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<u>↓</u>	
<u>See below</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Temperature Blank?		ID & Bottle Type:	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.			
Thermometer ID: <u>H</u>		Correction Factor (°C): <u>to 0</u>	
Uncorrected Temp (°C): <u>3.4</u>		Corrected Temp (°C): <u>3.4</u>	
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			
<u>EB-1 GP 8 GP 9 FBI</u>			
<u>GP 7 GP 6 Decor Fluids</u>			

Cedar Falls
704 Enterprise Drive

Chain of Custody Record

3 of 4

TestAmerica

100 LEAD IN ENVIRONMENTAL TESTING

Cedar Falls, IA 50613
phone 319.277.2401 fax 319.277.2425

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Megan Hughes		Site Contact: Andrew Herman		Date:		COC No:				
Terracon Consultants Inc.		Tel/Fax: 402-330-2202 megan.hughes@terracon.com		Lab Contact:		Carrier: FedEx		I of COCs				
15080 A Circle		Analysis Turnaround Time						Job No. Project # 05159093				
Omaha, NE 68144		Calendar (C) or Work Days (W) W						SDG No.				
(402) 330-2202 Phone		TAT if different from Below										
(402) 330-7606 FAX		<input type="checkbox"/> 2 weeks										
B & T Metals		<input checked="" type="checkbox"/> 1 week										
Site: Gering, NE		<input type="checkbox"/> 2 days										
P.O.#: Project# 05159093		<input type="checkbox"/> 1 day										
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	PAHs	PCBs	8 RCRA Metals	Sample Specific Notes:
GP-1	10/6	12:50	G	GW	24	N	12	4	4	4		EXTRA VOLUME FOR MS/MSD
GP-1			G	GW	1	Y				4		
GP-2		2:20	G	GW	6	N	3	1	1	1		
GP-2			G	GW	1	Y				1		
GP-3		12:50	G	GW	6	N	3	1	1	1		
GP-3			G	GW	1	Y				1		
GP-A			G	GW	6	N	3	1	1	1		
GP-A			G	GW	1	Y				1		
GP-4		2:45	G	GW	6	N	3	1	1	1		
GP-4			G	GW	1	Y				1		
GP-5	10/5	2:35	G	GW	6	N	3	1	1	1		
GP-5			G	GW	1	Y				1		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							1,2	1	1	1,4		
Possible Hazard Identification							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months					
Special Instructions/QC Requirements & Comments:							REPORT RESULTS IN mg/L					
Times are central time zone							Chromatograms Needed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Relinquished by:		Company: Terracon		Date/Time: 10/10/600		Received by:		Company: TA		Date/Time: 10.11.16 1025		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		

Form No. CA-C-WI-002, dated 04/07/2011.

Cedar Falls
704 Enterprise Drive


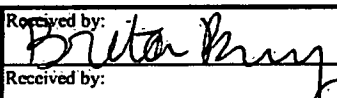
Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Cedar Falls, IA 50613
phone 319.277.2401 fax 319.277.2425

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Megan Hughes		Site Contact: Andrew Herman		Date:		COC No:				
Terracon Consultants Inc.		Tel/Fax: 402-330-2202 megan.hughes@terracon.com		Lab Contact:		Carrier: FedEx		of COCs				
15080 A Circle		Analysis Turnaround Time						Job No. Project # 05159093				
Omaha, NE 68144		Calendar (C) or Work Days (W) W						SDG No.				
(402) 330-2202 Phone		TAT if different from Below										
(402) 330-7606 FAX		<input type="checkbox"/> 2 weeks										
B & T Metals		<input checked="" type="checkbox"/> 1 week										
Site: Gering, NE		<input type="checkbox"/> 2 days										
P O #: Project# 05159093		<input type="checkbox"/> 1 day										
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	PAHs	PCBs	8 ECRA Metals	Sample Specific Notes:
GP-6	10/5	3:45	G	GW	6	N	3	1	1	1		ENTER VOLUME FOR METALS
GP-6	+	+	G	GW	1	Y						
GP-7	+	5:45	G	GW	6	N	3	1	1	1		
GP-7	+	+	G	GW	1	Y						
GP-8	10/6	8:15	G	GW	6	N	3	1	1	1		
GP-8	+	+	G	GW	1	Y						
GP-9	+	9:45	G	GW	6	N	3	1	1	1		
GP-9	+	+	G	GW	1	Y						
TB-1	lab reported		G	GW	3	N	3					
FB-1	10/6	7:30	G	GW	6	N	3	1	1	1		
FB-1	+	+	G	GW	1	Y						
EB-1	10/6	7:55	G	GW	6	N	3	1	1	1		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other							1,2	1	1	1,4		
Possible Hazard Identification							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>							<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months					
Special Instructions/QC Requirements & Comments:												
Times are central time zone												
REPORT RESULTS IN mg/L												
Chromatograms Needed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												
Relinquished by: 		Company: Terracon		Date/Time: 10/10/16		Received by: 		Company: TA		Date/Time: 10.11.16 1025		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		

Form No. CA-C-W1-002, dated 04/07/2011

704 Enterprise Drive

phone 319.277.2401 fax 319.277.2425

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL ISSUES

TestAmerica Laboratories, Inc.

[illegible]

Form No. CA-C-W1-002, dated 04/07/2011

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> pH	<u>Preservative</u> Added (mls)	<u>Lot #</u>
GP-1	310-91288-C-1	Plastic 250ml - with Nitric Acid	>2	2mL	_____
GP-1	310-91288-C-1 MS	Plastic 250ml - with Nitric Acid	>2	2mL	_____
GP-1	310-91288-C-1 MSD	Plastic 250ml - with Nitric Acid	>2	2mL	_____
GP-1	310-91288-D-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-1	310-91288-D-1 MS	Plastic 250ml - with Nitric Acid	>2	1mL	_____
GP-1	310-91288-D-1 MSD	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-1	310-91288-J-1 MSD	Plastic 250ml - with Nitric Acid	>2	3mL	_____
GP-1	310-91288-K-1 MSD	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-2	310-91288-C-2	Plastic 250ml - with Nitric Acid	>2	1mL	_____
GP-2	310-91288-D-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-3	310-91288-C-3	Plastic 250ml - with Nitric Acid	>2	1mL	_____
GP-3	310-91288-D-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-A	310-91288-C-4	Plastic 250ml - with Nitric Acid	>2	1mL	_____
GP-A	310-91288-D-4	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-4	310-91288-C-5	Plastic 250ml - with Nitric Acid	>2	1mL	_____
GP-4	310-91288-D-5	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-5	310-91288-C-6	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-5	310-91288-D-6	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-6	310-91288-C-7	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-6	310-91288-D-7	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-7	310-91288-C-8	Plastic 250ml - with Nitric Acid	>2	1mL	_____
GP-7	310-91288-D-8	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-8	310-91288-C-9	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-8	310-91288-D-9	Plastic 250ml - with Nitric Acid	<2	_____	_____
GP-9	310-91288-C-10	Plastic 250ml - with Nitric Acid	>2	1mL	_____
GP-9	310-91288-D-10	Plastic 250ml - with Nitric Acid	<2	_____	_____
FB-1	310-91288-C-12	Plastic 250ml - with Nitric Acid	<2	_____	_____
FB-1	310-91288-D-12	Plastic 250ml - with Nitric Acid	<2	_____	_____
EB-1	310-91288-C-13	Plastic 250ml - with Nitric Acid	<2	_____	_____
EB-1	310-91288-D-13	Plastic 250ml - with Nitric Acid	<2	_____	_____
Decontamination Fluids	310-91288-C-14	Plastic 250ml - with Nitric Acid	<2	_____	_____
Decontamination Fluids	310-91288-D-14	Plastic 250ml - with Nitric Acid	<2	_____	_____

HNO3
LOT #
1280305

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 310-91288-1

SDG Number: 05159093

Login Number: 91288

List Number: 1

Creator: Berry, Brita K

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	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 (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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APPENDIX E

**RELATIVE PERCENT DIFFERENCE
QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sampling Date: 10/6/2016

Sampling Method: Groundwater sampling using flexible tubing equipped with a check valve

Sample and Duplicate Identification GP-3 and GP-A

Analysis Method: SW 7470A (Aqueous)

Parameter	Sample Results	Duplicate Results	Relative Percent Difference (RPD)	RPD Within Acceptable Range*?
Mercury	0.000743 mg/L	0.000604 mg/L	20.6	insufficient data
Mercury, Dissolved	<0.0002 mg/L	<0.0002 mg/L	0.0	Yes

Comments: None.

**RELATIVE PERCENT DIFFERENCE
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sampling Date: 10/6/2016

Analysis Method: SW 8260B (Aqueous)

Parameter	Sample Results	Duplicate Results	Relative Percent Difference (RPD)	RPD Within Acceptable Range*?
1,1,1,2-Tetrachloroethane	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,1,1-Trichloroethane	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,1,2,2-Tetrachloroethane	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,1,2-Trichloroethane	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,1-Dichloroethane	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,1-Dichloroethene	<0.002 mg/L	<0.002 mg/L	0.0	Yes
1,1-Dichloropropene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,2,3-Trichlorobenzene	<0.005 mg/L	<0.005 mg/L	0.0	Yes
1,2,3-Trichloropropane	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,2,4-Trichlorobenzene	<0.005 mg/L	<0.005 mg/L	0.0	Yes
1,2,4-Trimethylbenzene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,2-Dibromo-3-Chloropropane	<0.005 mg/L	<0.005 mg/L	0.0	Yes
1,2-Dibromoethane (EDB)	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,2-Dichlorobenzene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,2-Dichloroethane	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,2-Dichloropropane	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,3,5-Trimethylbenzene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,3-Dichlorobenzene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,3-Dichloropropane	<0.001 mg/L	<0.001 mg/L	0.0	Yes
1,4-Dichlorobenzene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
2,2-Dichloropropane	<0.004 mg/L	<0.004 mg/L	0.0	Yes
2-Butanone (MEK)	<0.01 mg/L	<0.01 mg/L	0.0	Yes
2-Chlorotoluene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
4-Chlorotoluene	<0.001 mg/L	<0.001 mg/L	0.0	Yes

**RELATIVE PERCENT DIFFERENCE
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sampling Date: 10/6/2016

Acetone	<0.01 mg/L	<0.01 mg/L	0.0	Yes
Benzene	<0.0005 mg/L	<0.0005 mg/L	0.0	Yes
Bromobenzene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Bromochloromethane	<0.005 mg/L	<0.005 mg/L	0.0	Yes
Bromodichloromethane	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Bromoform	<0.005 mg/L	<0.005 mg/L	0.0	Yes
Bromomethane	<0.004 mg/L	<0.004 mg/L	0.0	Yes
Carbon disulfide	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Carbon tetrachloride	<0.002 mg/L	<0.002 mg/L	0.0	Yes
Chlorobenzene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Chlorodibromomethane	<0.005 mg/L	<0.005 mg/L	0.0	Yes
Chloroethane	<0.004 mg/L	<0.004 mg/L	0.0	Yes
Chloroform	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Chloromethane	<0.003 mg/L	<0.003 mg/L	0.0	Yes
cis-1,2-Dichloroethene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
cis-1,3-Dichloropropene	<0.005 mg/L	<0.005 mg/L	0.0	Yes
Dibromomethane	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Dichlorodifluoromethane	<0.003 mg/L	<0.003 mg/L	0.0	Yes
Ethylbenzene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Hexachlorobutadiene	<0.005 mg/L	<0.005 mg/L	0.0	Yes
Hexane	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Isopropylbenzene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Methyl tert-butyl ether	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Methylene Chloride	<0.005 mg/L	<0.005 mg/L	0.0	Yes
Naphthalene	<0.005 mg/L	<0.005 mg/L	0.0	Yes
n-Butylbenzene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
N-Propylbenzene	<0.001 mg/L	<0.001 mg/L	0.0	Yes

**RELATIVE PERCENT DIFFERENCE
QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sampling Date: 10/6/2016

p-Isopropyltoluene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
sec-Butylbenzene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Styrene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
tert-Butylbenzene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Tetrachloroethene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Toluene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
trans-1,2-Dichloroethene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
trans-1,3-Dichloropropene	<0.005 mg/L	<0.005 mg/L	0.0	Yes
Trichloroethene	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Trichlorofluoromethane	<0.004 mg/L	<0.004 mg/L	0.0	Yes
Vinyl chloride	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Xylenes, Total	<0.003 mg/L	<0.003 mg/L	0.0	Yes

Comments: None.

**RELATIVE PERCENT DIFFERENCE
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sampling Date: 10/6/2016

Analysis Method: SW846 6020A (Aqueous)

Parameter	Sample Results	Duplicate Results	Relative Percent Difference (RPD)	RPD Within Acceptable Range*?
Arsenic	0.0527 mg/L	0.057 mg/L	7.8	insufficient data
Arsenic, Dissolved	0.0219 mg/L	0.0221 mg/L	0.9	insufficient data
Barium	0.296 mg/L	0.319 mg/L	7.5	insufficient data
Barium, Dissolved	0.0598 mg/L	0.0651 mg/L	8.5	insufficient data
Cadmium	0.0109 mg/L	0.0133 mg/L	19.8	insufficient data
Cadmium, Dissolved	<0.0005 mg/L	<0.0005 mg/L	0.0	Yes
Chromium	0.00633 mg/L	0.0097 mg/L	42.0	insufficient data
Chromium, Dissolved	<0.005 mg/L	<0.005 mg/L	0.0	Yes
Lead	0.118 mg/L	0.278 mg/L	80.8	insufficient data
Lead, Dissolved	0.000778 mg/L	0.00163 mg/L	70.8	insufficient data
Selenium	<0.025 mg/L	<0.025 mg/L	0.0	Yes
Selenium, Dissolved	<0.005 mg/L	<0.005 mg/L	0.0	Yes
Silver	<0.001 mg/L	<0.001 mg/L	0.0	Yes
Silver, Dissolved	<0.001 mg/L	<0.001 mg/L	0.0	Yes

Comments: None.

Report Notes:

***"Acceptable" means the RPD is within two standard deviations of Terracon's average RPD for the sampling method and analysis. "Insufficient data" means Terracon does not have enough data for this parameter to statistically evaluate the RPD. "Results too close to the PQL" means the RPD calculation is not valid since the RPD calculation may be skewed because the analytical results are too close to the practical quantitation limit.

**FIELD BLANK
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sampling Date: 10/6/2016

Field Blank Identification FB-1

Parameter	Field Blank Results	Field Blank Contamination*
1,1,1,2-Tetrachloroethane	<0.001 mg/L	No
1,1,1-Trichloroethane	<0.001 mg/L	No
1,1,2,2-Tetrachloroethane	<0.001 mg/L	No
1,1,2-Trichloroethane	<0.001 mg/L	No
1,1-Dichloroethane	<0.001 mg/L	No
1,1-Dichloroethene	<0.002 mg/L	No
1,1-Dichloropropene	<0.001 mg/L	No
1,2,3-Trichlorobenzene	<0.005 mg/L	No
1,2,3-Trichloropropane	<0.001 mg/L	No
1,2,4-Trichlorobenzene	<0.005 mg/L	No
1,2,4-Trimethylbenzene	<0.001 mg/L	No
1,2-Dibromo-3-Chloropropane	<0.005 mg/L	No
1,2-Dibromoethane (EDB)	<0.001 mg/L	No
1,2-Dichlorobenzene	<0.001 mg/L	No
1,2-Dichloroethane	<0.001 mg/L	No
1,2-Dichloropropane	<0.001 mg/L	No
1,3,5-Trimethylbenzene	<0.001 mg/L	No
1,3-Dichlorobenzene	<0.001 mg/L	No
1,3-Dichloropropane	<0.001 mg/L	No
1,4-Dichlorobenzene	<0.001 mg/L	No
2,2-Dichloropropane	<0.004 mg/L	No
2-Butanone (MEK)	<0.01 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**FIELD BLANK
 QUALITY CONTROL REPORT**

2-Chlorotoluene	<0.001 mg/L	No
2-Methylnaphthalene	<0.000472 mg/L	No
4-Chlorotoluene	<0.001 mg/L	No
Acenaphthene	<0.0000943 mg/L	No
Acenaphthylene	<0.0000943 mg/L	No
Acetone	<0.01 mg/L	No
Anthracene	<0.0000943 mg/L	No
Arsenic	<0.002 mg/L	No
Arsenic, Dissolved	<0.002 mg/L	No
Barium	<0.002 mg/L	No
Barium, Dissolved	<0.002 mg/L	No
Benzene	<0.0005 mg/L	No
Benzo[a]anthracene	<0.0000943 mg/L	No
Benzo[a]pyrene	<0.0000943 mg/L	No
Benzo[b]fluoranthene	<0.0000943 mg/L	No
Benzo[g,h,i]perylene	<0.0000943 mg/L	No
Benzo[k]fluoranthene	<0.0000943 mg/L	No
Bromobenzene	<0.001 mg/L	No
Bromochloromethane	<0.005 mg/L	No
Bromodichloromethane	<0.001 mg/L	No
Bromoform	<0.005 mg/L	No
Bromomethane	<0.004 mg/L	No
Cadmium	<0.0005 mg/L	No
Cadmium, Dissolved	<0.0005 mg/L	No
Carbon disulfide	<0.001 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**FIELD BLANK
 QUALITY CONTROL REPORT**

Carbon tetrachloride	<0.002 mg/L	No
Chlorobenzene	<0.001 mg/L	No
Chlorodibromomethane	<0.005 mg/L	No
Chloroethane	<0.004 mg/L	No
Chloroform	<0.001 mg/L	No
Chloromethane	<0.003 mg/L	No
Chromium	<0.005 mg/L	No
Chromium, Dissolved	<0.005 mg/L	No
Chrysene	<0.0000943 mg/L	No
cis-1,2-Dichloroethene	<0.001 mg/L	No
cis-1,3-Dichloropropene	<0.005 mg/L	No
Dibenz(a,h)anthracene	<0.0000943 mg/L	No
Dibromomethane	<0.001 mg/L	No
Dichlorodifluoromethane	<0.003 mg/L	No
Ethylbenzene	<0.001 mg/L	No
Fluoranthene	<0.0000943 mg/L	No
Fluorene	<0.0000943 mg/L	No
Hexachlorobutadiene	<0.005 mg/L	No
Hexane	<0.001 mg/L	No
Indeno[1,2,3-cd]pyrene	<0.0000943 mg/L	No
Isopropylbenzene	<0.001 mg/L	No
Lead	<0.0005 mg/L	No
Lead, Dissolved	0.000871 mg/L	Yes
Mercury	<0.0002 mg/L	No
Mercury, Dissolved	<0.0002 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**FIELD BLANK
 QUALITY CONTROL REPORT**

Methyl tert-butyl ether	<0.001 mg/L	No
Methylene Chloride	<0.005 mg/L	No
Naphthalene	<0.000472 mg/L	No
Naphthalene	<0.005 mg/L	No
n-Butylbenzene	<0.001 mg/L	No
N-Propylbenzene	<0.001 mg/L	No
PCB-1016	<0.000769 mg/L	No
PCB-1221	<0.000769 mg/L	No
PCB-1232	<0.000769 mg/L	No
PCB-1242	<0.000769 mg/L	No
PCB-1248	<0.000769 mg/L	No
PCB-1254	<0.000769 mg/L	No
PCB-1260	<0.000769 mg/L	No
PCB-1268	<0.000769 mg/L	No
Phenanthrene	<0.0000943 mg/L	No
p-Isopropyltoluene	<0.001 mg/L	No
Polychlorinated biphenyls, Total	<0.000769 mg/L	No
Pyrene	<0.0000943 mg/L	No
sec-Butylbenzene	<0.001 mg/L	No
Selenium	<0.005 mg/L	No
Selenium, Dissolved	<0.005 mg/L	No
Silver	<0.001 mg/L	No
Silver, Dissolved	<0.001 mg/L	No
Styrene	<0.001 mg/L	No
tert-Butylbenzene	<0.001 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**FIELD BLANK
QUALITY CONTROL REPORT**

Tetrachloroethene	<0.001 mg/L	No
Toluene	<0.001 mg/L	No
trans-1,2-Dichloroethene	<0.001 mg/L	No
trans-1,3-Dichloropropene	<0.005 mg/L	No
Trichloroethene	<0.001 mg/L	No
Trichlorofluoromethane	<0.004 mg/L	No
Vinyl chloride	<0.001 mg/L	No
Xylenes, Total	<0.003 mg/L	No

Comments: The field blank analysis results indicate signs of contamination.

*Contamination is a detectable concentration of the applicable parameter.

**TRIP BLANK
QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sampling Date: 10/5/2016

Trip Blank Identification: TB-1 (C13)

Parameter	Trip Blank Results	Trip Blank Contamination*
1,1,1,2-Tetrachloroethane	<0.001 mg/L	No
1,1,1-Trichloroethane	<0.001 mg/L	No
1,1,2,2-Tetrachloroethane	<0.001 mg/L	No
1,1,2-Trichloroethane	<0.001 mg/L	No
1,1-Dichloroethane	<0.001 mg/L	No
1,1-Dichloroethene	<0.002 mg/L	No
1,1-Dichloropropene	<0.001 mg/L	No
1,2,3-Trichlorobenzene	<0.005 mg/L	No
1,2,3-Trichloropropane	<0.001 mg/L	No
1,2,4-Trichlorobenzene	<0.005 mg/L	No
1,2,4-Trimethylbenzene	<0.001 mg/L	No
1,2-Dibromo-3-Chloropropane	<0.005 mg/L	No
1,2-Dibromoethane (EDB)	<0.001 mg/L	No
1,2-Dichlorobenzene	<0.001 mg/L	No
1,2-Dichloroethane	<0.001 mg/L	No
1,2-Dichloropropane	<0.001 mg/L	No
1,3,5-Trimethylbenzene	<0.001 mg/L	No
1,3-Dichlorobenzene	<0.001 mg/L	No
1,3-Dichloropropane	<0.001 mg/L	No
1,4-Dichlorobenzene	<0.001 mg/L	No
2,2-Dichloropropane	<0.004 mg/L	No
2-Butanone (MEK)	<0.01 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**TRIP BLANK
 QUALITY CONTROL REPORT**

2-Chlorotoluene	<0.001 mg/L	No
4-Chlorotoluene	<0.001 mg/L	No
Acetone	<0.01 mg/L	No
Benzene	<0.0005 mg/L	No
Bromobenzene	<0.001 mg/L	No
Bromochloromethane	<0.005 mg/L	No
Bromodichloromethane	<0.001 mg/L	No
Bromoform	<0.005 mg/L	No
Bromomethane	<0.004 mg/L	No
Carbon disulfide	<0.001 mg/L	No
Carbon tetrachloride	<0.002 mg/L	No
Chlorobenzene	<0.001 mg/L	No
Chlorodibromomethane	<0.005 mg/L	No
Chloroethane	<0.004 mg/L	No
Chloroform	<0.001 mg/L	No
Chloromethane	<0.003 mg/L	No
cis-1,2-Dichloroethene	<0.001 mg/L	No
cis-1,3-Dichloropropene	<0.005 mg/L	No
Dibromomethane	<0.001 mg/L	No
Dichlorodifluoromethane	<0.003 mg/L	No
Ethylbenzene	<0.001 mg/L	No
Hexachlorobutadiene	<0.005 mg/L	No
Hexane	<0.001 mg/L	No
Isopropylbenzene	<0.001 mg/L	No
Methyl tert-butyl ether	<0.001 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**TRIP BLANK
 QUALITY CONTROL REPORT**

Methylene Chloride	<0.005 mg/L	No
Naphthalene	<0.005 mg/L	No
n-Butylbenzene	<0.001 mg/L	No
N-Propylbenzene	<0.001 mg/L	No
p-Isopropyltoluene	<0.001 mg/L	No
sec-Butylbenzene	<0.001 mg/L	No
Styrene	<0.001 mg/L	No
tert-Butylbenzene	<0.001 mg/L	No
Tetrachloroethene	<0.001 mg/L	No
Toluene	<0.001 mg/L	No
trans-1,2-Dichloroethene	<0.001 mg/L	No
trans-1,3-Dichloropropene	<0.005 mg/L	No
Trichloroethene	<0.001 mg/L	No
Trichlorofluoromethane	<0.004 mg/L	No
Vinyl chloride	<0.001 mg/L	No
Xylenes, Total	<0.003 mg/L	No

Trip Blank Identification: TB-2 (8-J)

Parameter	Trip Blank Results	Trip Blank Contamination*
1,1,1,2-Tetrachloroethane	<0.001 mg/L	No
1,1,1-Trichloroethane	<0.001 mg/L	No
1,1,2,2-Tetrachloroethane	<0.001 mg/L	No
1,1,2-Trichloroethane	<0.001 mg/L	No
1,1-Dichloroethane	<0.001 mg/L	No
1,1-Dichloroethene	<0.002 mg/L	No
1,1-Dichloropropene	<0.001 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**TRIP BLANK
 QUALITY CONTROL REPORT**

1,2,3-Trichlorobenzene	<0.005 mg/L	No
1,2,3-Trichloropropane	<0.001 mg/L	No
1,2,4-Trichlorobenzene	<0.005 mg/L	No
1,2,4-Trimethylbenzene	<0.001 mg/L	No
1,2-Dibromo-3-Chloropropane	<0.005 mg/L	No
1,2-Dibromoethane (EDB)	<0.001 mg/L	No
1,2-Dichlorobenzene	<0.001 mg/L	No
1,2-Dichloroethane	<0.001 mg/L	No
1,2-Dichloropropane	<0.001 mg/L	No
1,3,5-Trimethylbenzene	<0.001 mg/L	No
1,3-Dichlorobenzene	<0.001 mg/L	No
1,3-Dichloropropane	<0.001 mg/L	No
1,4-Dichlorobenzene	<0.001 mg/L	No
2,2-Dichloropropane	<0.004 mg/L	No
2-Butanone (MEK)	<0.01 mg/L	No
2-Chlorotoluene	<0.001 mg/L	No
4-Chlorotoluene	<0.001 mg/L	No
Acetone	<0.01 mg/L	No
Benzene	<0.0005 mg/L	No
Bromobenzene	<0.001 mg/L	No
Bromochloromethane	<0.005 mg/L	No
Bromodichloromethane	<0.001 mg/L	No
Bromoform	<0.005 mg/L	No
Bromomethane	<0.004 mg/L	No
Carbon disulfide	<0.001 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**TRIP BLANK
QUALITY CONTROL REPORT**

Carbon tetrachloride	<0.002 mg/L	No
Chlorobenzene	<0.001 mg/L	No
Chlorodibromomethane	<0.005 mg/L	No
Chloroethane	<0.004 mg/L	No
Chloroform	<0.001 mg/L	No
Chloromethane	<0.003 mg/L	No
cis-1,2-Dichloroethene	<0.001 mg/L	No
cis-1,3-Dichloropropene	<0.005 mg/L	No
Dibromomethane	<0.001 mg/L	No
Dichlorodifluoromethane	<0.003 mg/L	No
Ethylbenzene	<0.001 mg/L	No
Hexachlorobutadiene	<0.005 mg/L	No
Hexane	<0.001 mg/L	No
Isopropylbenzene	<0.001 mg/L	No
Methyl tert-butyl ether	<0.001 mg/L	No
Methylene Chloride	<0.005 mg/L	No
Naphthalene	<0.005 mg/L	No
n-Butylbenzene	<0.001 mg/L	No
N-Propylbenzene	<0.001 mg/L	No
p-Isopropyltoluene	<0.001 mg/L	No
sec-Butylbenzene	<0.001 mg/L	No
Styrene	<0.001 mg/L	No
tert-Butylbenzene	<0.001 mg/L	No
Tetrachloroethene	<0.001 mg/L	No
Toluene	<0.001 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**TRIP BLANK
 QUALITY CONTROL REPORT**

trans-1,2-Dichloroethene	<0.001 mg/L	No
trans-1,3-Dichloropropene	<0.005 mg/L	No
Trichloroethene	<0.001 mg/L	No
Trichlorofluoromethane	<0.004 mg/L	No
Vinyl chloride	<0.001 mg/L	No
Xylenes, Total	<0.003 mg/L	No

Trip Blank Identification: TB-3 (17-C)

Parameter	Trip Blank Results	Trip Blank Contamination*
1,1,1,2-Tetrachloroethane	<0.001 mg/L	No
1,1,1-Trichloroethane	<0.001 mg/L	No
1,1,2,2-Tetrachloroethane	<0.001 mg/L	No
1,1,2-Trichloroethane	<0.001 mg/L	No
1,1-Dichloroethane	<0.001 mg/L	No
1,1-Dichloroethene	<0.002 mg/L	No
1,1-Dichloropropene	<0.001 mg/L	No
1,2,3-Trichlorobenzene	<0.005 mg/L	No
1,2,3-Trichloropropane	<0.001 mg/L	No
1,2,4-Trichlorobenzene	<0.005 mg/L	No
1,2,4-Trimethylbenzene	<0.001 mg/L	No
1,2-Dibromo-3-Chloropropane	<0.005 mg/L	No
1,2-Dibromoethane (EDB)	<0.001 mg/L	No
1,2-Dichlorobenzene	<0.001 mg/L	No
1,2-Dichloroethane	<0.001 mg/L	No
1,2-Dichloropropane	<0.001 mg/L	No
1,3,5-Trimethylbenzene	<0.001 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**TRIP BLANK
QUALITY CONTROL REPORT**

1,3-Dichlorobenzene	<0.001 mg/L	No
1,3-Dichloropropane	<0.001 mg/L	No
1,4-Dichlorobenzene	<0.001 mg/L	No
2,2-Dichloropropane	<0.004 mg/L	No
2-Butanone (MEK)	<0.01 mg/L	No
2-Chlorotoluene	<0.001 mg/L	No
4-Chlorotoluene	<0.001 mg/L	No
Acetone	<0.01 mg/L	No
Benzene	<0.0005 mg/L	No
Bromobenzene	<0.001 mg/L	No
Bromochloromethane	<0.005 mg/L	No
Bromodichloromethane	<0.001 mg/L	No
Bromoform	<0.005 mg/L	No
Bromomethane	<0.004 mg/L	No
Carbon disulfide	<0.001 mg/L	No
Carbon tetrachloride	<0.002 mg/L	No
Chlorobenzene	<0.001 mg/L	No
Chlorodibromomethane	<0.005 mg/L	No
Chloroethane	<0.004 mg/L	No
Chloroform	<0.001 mg/L	No
Chloromethane	<0.003 mg/L	No
cis-1,2-Dichloroethene	<0.001 mg/L	No
cis-1,3-Dichloropropene	<0.005 mg/L	No
Dibromomethane	<0.001 mg/L	No
Dichlorodifluoromethane	<0.003 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**TRIP BLANK
QUALITY CONTROL REPORT**

Ethylbenzene	<0.001 mg/L	No
Hexachlorobutadiene	<0.005 mg/L	No
Hexane	<0.001 mg/L	No
Isopropylbenzene	<0.001 mg/L	No
Methyl tert-butyl ether	<0.001 mg/L	No
Methylene Chloride	<0.005 mg/L	No
Naphthalene	<0.005 mg/L	No
n-Butylbenzene	<0.001 mg/L	No
N-Propylbenzene	<0.001 mg/L	No
p-Isopropyltoluene	<0.001 mg/L	No
sec-Butylbenzene	<0.001 mg/L	No
Styrene	<0.001 mg/L	No
tert-Butylbenzene	<0.001 mg/L	No
Tetrachloroethene	<0.001 mg/L	No
Toluene	<0.001 mg/L	No
trans-1,2-Dichloroethene	<0.001 mg/L	No
trans-1,3-Dichloropropene	<0.005 mg/L	No
Trichloroethene	<0.001 mg/L	No
Trichlorofluoromethane	<0.004 mg/L	No
Vinyl chloride	<0.001 mg/L	No
Xylenes, Total	<0.003 mg/L	No

Comments: None.

*Contamination is a detectable concentration of the applicable parameter.

**EQUIPMENT RINSATE BLANK
QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sampling Date: 10/6/2016

Field Blank Identification EB-1

Parameter	Equipment Rinsate Blank Results	Equipment Rinsate Blank Contamination*
1,1,1,2-Tetrachloroethane	<0.001 mg/L	No
1,1,1-Trichloroethane	<0.001 mg/L	No
1,1,2,2-Tetrachloroethane	<0.001 mg/L	No
1,1,2-Trichloroethane	<0.001 mg/L	No
1,1-Dichloroethane	<0.001 mg/L	No
1,1-Dichloroethene	<0.002 mg/L	No
1,1-Dichloropropene	<0.001 mg/L	No
1,2,3-Trichlorobenzene	<0.005 mg/L	No
1,2,3-Trichloropropane	<0.001 mg/L	No
1,2,4-Trichlorobenzene	<0.005 mg/L	No
1,2,4-Trimethylbenzene	<0.001 mg/L	No
1,2-Dibromo-3-Chloropropane	<0.005 mg/L	No
1,2-Dibromoethane (EDB)	<0.001 mg/L	No
1,2-Dichlorobenzene	<0.001 mg/L	No
1,2-Dichloroethane	<0.001 mg/L	No
1,2-Dichloropropane	<0.001 mg/L	No
1,3,5-Trimethylbenzene	<0.001 mg/L	No
1,3-Dichlorobenzene	<0.001 mg/L	No
1,3-Dichloropropane	<0.001 mg/L	No
1,4-Dichlorobenzene	<0.001 mg/L	No
2,2-Dichloropropane	<0.004 mg/L	No
2-Butanone (MEK)	<0.01 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**EQUIPMENT RINSATE BLANK
 QUALITY CONTROL REPORT**

2-Chlorotoluene	<0.001 mg/L	No
2-Methylnaphthalene	<0.000472 mg/L	No
4-Chlorotoluene	<0.001 mg/L	No
Acenaphthene	<0.0000943 mg/L	No
Acenaphthylene	<0.0000943 mg/L	No
Acetone	<0.01 mg/L	No
Anthracene	<0.0000943 mg/L	No
Arsenic	<0.002 mg/L	No
Arsenic, Dissolved	<0.002 mg/L	No
Barium	<0.002 mg/L	No
Barium, Dissolved	<0.002 mg/L	No
Benzene	<0.0005 mg/L	No
Benzo[a]anthracene	<0.0000943 mg/L	No
Benzo[a]pyrene	<0.0000943 mg/L	No
Benzo[b]fluoranthene	<0.0000943 mg/L	No
Benzo[g,h,i]perylene	<0.0000943 mg/L	No
Benzo[k]fluoranthene	<0.0000943 mg/L	No
Bromobenzene	<0.001 mg/L	No
Bromochloromethane	<0.005 mg/L	No
Bromodichloromethane	<0.001 mg/L	No
Bromoform	<0.005 mg/L	No
Bromomethane	<0.004 mg/L	No
Cadmium	<0.0005 mg/L	No
Cadmium, Dissolved	<0.0005 mg/L	No
Carbon disulfide	<0.001 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**EQUIPMENT RINSATE BLANK
 QUALITY CONTROL REPORT**

Carbon tetrachloride	<0.002 mg/L	No
Chlorobenzene	<0.001 mg/L	No
Chlorodibromomethane	<0.005 mg/L	No
Chloroethane	<0.004 mg/L	No
Chloroform	<0.001 mg/L	No
Chloromethane	<0.003 mg/L	No
Chromium	<0.005 mg/L	No
Chromium, Dissolved	<0.005 mg/L	No
Chrysene	<0.0000943 mg/L	No
cis-1,2-Dichloroethene	<0.001 mg/L	No
cis-1,3-Dichloropropene	<0.005 mg/L	No
Dibenz(a,h)anthracene	<0.0000943 mg/L	No
Dibromomethane	<0.001 mg/L	No
Dichlorodifluoromethane	<0.003 mg/L	No
Ethylbenzene	<0.001 mg/L	No
Fluoranthene	<0.0000943 mg/L	No
Fluorene	<0.0000943 mg/L	No
Hexachlorobutadiene	<0.005 mg/L	No
Hexane	<0.001 mg/L	No
Indeno[1,2,3-cd]pyrene	<0.0000943 mg/L	No
Isopropylbenzene	<0.001 mg/L	No
Lead	0.00052 mg/L	Yes
Lead, Dissolved	<0.0005 mg/L	No
Mercury	<0.0002 mg/L	No
Mercury, Dissolved	<0.0002 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**EQUIPMENT RINSATE BLANK
 QUALITY CONTROL REPORT**

Methyl tert-butyl ether	<0.001 mg/L	No
Methylene Chloride	<0.005 mg/L	No
Naphthalene	<0.000472 mg/L	No
Naphthalene	<0.005 mg/L	No
n-Butylbenzene	<0.001 mg/L	No
N-Propylbenzene	<0.001 mg/L	No
PCB-1016	<0.000741 mg/L	No
PCB-1221	<0.000741 mg/L	No
PCB-1232	<0.000741 mg/L	No
PCB-1242	<0.000741 mg/L	No
PCB-1248	<0.000741 mg/L	No
PCB-1254	<0.000741 mg/L	No
PCB-1260	<0.000741 mg/L	No
PCB-1268	<0.000741 mg/L	No
Phenanthrene	<0.0000943 mg/L	No
p-Isopropyltoluene	<0.001 mg/L	No
Polychlorinated biphenyls, Total	<0.000741 mg/L	No
Pyrene	<0.0000943 mg/L	No
sec-Butylbenzene	<0.001 mg/L	No
Selenium	<0.005 mg/L	No
Selenium, Dissolved	<0.005 mg/L	No
Silver	<0.001 mg/L	No
Silver, Dissolved	<0.001 mg/L	No
Styrene	<0.001 mg/L	No
tert-Butylbenzene	<0.001 mg/L	No

*Contamination is a detectable concentration of the applicable parameter.

**EQUIPMENT RINSATE BLANK
QUALITY CONTROL REPORT**

Tetrachloroethene	<0.001 mg/L	No
Toluene	<0.001 mg/L	No
trans-1,2-Dichloroethene	<0.001 mg/L	No
trans-1,3-Dichloropropene	<0.005 mg/L	No
Trichloroethene	<0.001 mg/L	No
Trichlorofluoromethane	<0.004 mg/L	No
Vinyl chloride	<0.001 mg/L	No
Xylenes, Total	<0.003 mg/L	No

Comments: The field blank analysis results indicate signs of contamination.

*Contamination is a detectable concentration of the applicable parameter.

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: Decontamination Fluids

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 7470A (Aqueous)	10/6/2016 3:05:00 PM	10/11/2016	10/13/2016 10:55:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 10:42:00 AM	8	28	Yes
SW 7470A (Aqueous)	10/6/2016 3:05:00 PM	10/11/2016	10/13/2016 10:50:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:39:00 PM	8	28	Yes
SW 8260B (Aqueous)	10/6/2016 3:05:00 PM	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 3:35:00 PM	6	14	Yes
SW 8270C (Aqueous)	10/6/2016 3:05:00 PM	10/11/2016	10/12/2016 2:21:00 PM	6	7	Yes	10/14/2016 12:02:00 PM	2	40	Yes
SW846 6020A (Aqueous)	10/6/2016 3:05:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:16:00 PM	7	180	Yes
SW846 6020A (Aqueous)	10/6/2016 3:05:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 7:36:00 PM	7	180	Yes
SW846 8082A (Aqueous)	10/6/2016 3:05:00 PM	10/11/2016	10/14/2016 3:03:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/18/2016 1:55:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: EB-1

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 7470A (Aqueous)	10/6/2016 2:55:00 PM	10/11/2016	10/13/2016 10:55:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 10:40:00 AM	8	28	Yes
SW 7470A (Aqueous)	10/6/2016 2:55:00 PM	10/11/2016	10/13/2016 10:50:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:38:00 PM	8	28	Yes
SW 8260B (Aqueous)	10/6/2016 2:55:00 PM	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 1:38:00 PM	6	14	Yes
SW 8270C (Aqueous)	10/6/2016 2:55:00 PM	10/11/2016	10/12/2016 2:21:00 PM	6	7	Yes	10/14/2016 11:41:00 AM	2	40	Yes
SW846 6020A (Aqueous)	10/6/2016 2:55:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:13:00 PM	7	180	Yes
SW846 6020A (Aqueous)	10/6/2016 2:55:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 7:23:00 PM	7	180	Yes
SW846 8082A (Aqueous)	10/6/2016 2:55:00 PM	10/11/2016	10/14/2016 3:03:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/18/2016 1:44:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: FB-1

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 7470A (Aqueous)	10/6/2016 7:30:00 AM	10/11/2016	10/13/2016 10:50:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:36:00 PM	8	28	Yes
SW 7470A (Aqueous)	10/6/2016 7:30:00 AM	10/11/2016	10/13/2016 10:55:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 10:39:00 AM	8	28	Yes
SW 8260B (Aqueous)	10/6/2016 7:30:00 AM	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 1:15:00 PM	6	14	Yes
SW 8270C (Aqueous)	10/6/2016 7:30:00 AM	10/11/2016	10/12/2016 2:21:00 PM	6	7	Yes	10/14/2016 11:20:00 AM	2	40	Yes
SW846 6020A (Aqueous)	10/6/2016 7:30:00 AM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 7:17:00 PM	7	180	Yes
SW846 6020A (Aqueous)	10/6/2016 7:30:00 AM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:07:00 PM	7	180	Yes
SW846 8082A (Aqueous)	10/6/2016 7:30:00 AM	10/11/2016	10/14/2016 3:03:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/18/2016 1:33:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-1

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 7470A (Aqueous)	10/6/2016 12:50:00 PM	10/11/2016	10/13/2016 10:55:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 10:16:00 AM	8	28	Yes
SW 7470A (Aqueous)	10/6/2016 12:50:00 PM	10/11/2016	10/13/2016 10:50:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:14:00 PM	8	28	Yes
SW 8260B (Aqueous)	10/6/2016 12:50:00 PM	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 8:58:00 AM	6	14	Yes
SW 8270C (Aqueous)	10/6/2016 12:50:00 PM	10/11/2016	10/12/2016 2:21:00 PM	6	7	Yes	10/13/2016 6:49:00 PM	1	40	Yes
SW846 6020A (Aqueous)	10/6/2016 12:50:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 6:28:00 PM	7	180	Yes
SW846 6020A (Aqueous)	10/6/2016 12:50:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 8:07:00 PM	7	180	Yes
SW846 6020A (Aqueous)	10/6/2016 12:50:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:11:00 PM	8	180	Yes
SW846 8082A (Aqueous)	10/6/2016 12:50:00 PM	10/11/2016	10/14/2016 3:03:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/17/2016 3:48:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-2

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 7470A (Aqueous)	10/6/2016 2:20:00 PM	10/11/2016	10/13/2016 10:50:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:19:00 PM	8	28	Yes
SW 7470A (Aqueous)	10/6/2016 2:20:00 PM	10/11/2016	10/13/2016 10:55:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 10:21:00 AM	8	28	Yes
SW 8260B (Aqueous)	10/6/2016 2:20:00 PM	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 9:21:00 AM	6	14	Yes
SW 8270C (Aqueous)	10/6/2016 2:20:00 PM	10/11/2016	10/12/2016 2:21:00 PM	6	7	Yes	10/13/2016 7:10:00 PM	1	40	Yes
SW846 6020A (Aqueous)	10/6/2016 2:20:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:21:00 PM	8	180	Yes
SW846 6020A (Aqueous)	10/6/2016 2:20:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 8:29:00 PM	7	180	Yes
SW846 6020A (Aqueous)	10/6/2016 2:20:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 6:40:00 PM	7	180	Yes
SW846 8082A (Aqueous)	10/6/2016 2:20:00 PM	10/11/2016	10/14/2016 3:03:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/17/2016 3:59:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-3

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 7470A (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/13/2016 10:55:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 10:22:00 AM	8	28	Yes
SW 7470A (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/13/2016 10:50:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:20:00 PM	8	28	Yes
SW 8260B (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 9:45:00 AM	6	14	Yes
SW 8270C (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/12/2016 2:21:00 PM	6	7	Yes	10/13/2016 7:31:00 PM	1	40	Yes
SW846 6020A (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 6:43:00 PM	7	180	Yes
SW846 6020A (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 8:32:00 PM	7	180	Yes
SW846 6020A (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:24:00 PM	8	180	Yes
SW846 8082A (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/14/2016 3:03:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/17/2016 4:10:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-4

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 7470A (Aqueous)	10/6/2016 2:45:00 PM	10/11/2016	10/13/2016 10:50:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:24:00 PM	8	28	Yes
SW 7470A (Aqueous)	10/6/2016 2:45:00 PM	10/11/2016	10/13/2016 10:55:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 10:29:00 AM	8	28	Yes
SW 8260B (Aqueous)	10/6/2016 2:45:00 PM	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 10:31:00 AM	6	14	Yes
SW 8270C (Aqueous)	10/6/2016 2:45:00 PM	10/11/2016	10/12/2016 2:21:00 PM	6	7	Yes	10/13/2016 8:13:00 PM	1	40	Yes
SW846 6020A (Aqueous)	10/6/2016 2:45:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 1:05:00 PM	8	180	Yes
SW846 6020A (Aqueous)	10/6/2016 2:45:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:30:00 PM	8	180	Yes
SW846 6020A (Aqueous)	10/6/2016 2:45:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 6:58:00 PM	7	180	Yes
SW846 8082A (Aqueous)	10/6/2016 2:45:00 PM	10/11/2016	10/14/2016 3:03:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/17/2016 4:45:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-5

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 7470A (Aqueous)	10/5/2016 2:35:00 PM	10/11/2016	10/13/2016 10:55:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 10:30:00 AM	9	28	Yes
SW 7470A (Aqueous)	10/5/2016 2:35:00 PM	10/11/2016	10/13/2016 10:50:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:25:00 PM	9	28	Yes
SW 8260B (Aqueous)	10/5/2016 2:35:00 PM	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 10:55:00 AM	7	14	Yes
SW 8270C (Aqueous)	10/5/2016 2:35:00 PM	10/11/2016	10/12/2016 2:21:00 PM	7	7	Yes	10/13/2016 8:35:00 PM	1	40	Yes
SW846 6020A (Aqueous)	10/5/2016 2:35:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 7:02:00 PM	8	180	Yes
SW846 6020A (Aqueous)	10/5/2016 2:35:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 8:42:00 PM	8	180	Yes
SW846 6020A (Aqueous)	10/5/2016 2:35:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:33:00 PM	9	180	Yes
SW846 8082A (Aqueous)	10/5/2016 2:35:00 PM	10/11/2016	10/14/2016 3:03:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/18/2016 12:39:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-6

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 7470A (Aqueous)	10/5/2016 4:15:00 PM	10/11/2016	10/13/2016 10:55:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 10:32:00 AM	9	28	Yes
SW 7470A (Aqueous)	10/5/2016 4:15:00 PM	10/11/2016	10/13/2016 10:50:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:27:00 PM	9	28	Yes
SW 8260B (Aqueous)	10/5/2016 4:15:00 PM	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 11:18:00 AM	7	14	Yes
SW 8270C (Aqueous)	10/5/2016 4:15:00 PM	10/11/2016	10/12/2016 2:21:00 PM	7	7	Yes	10/13/2016 8:56:00 PM	1	40	Yes
SW846 6020A (Aqueous)	10/5/2016 4:15:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 7:05:00 PM	8	180	Yes
SW846 6020A (Aqueous)	10/5/2016 4:15:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:37:00 PM	9	180	Yes
SW846 6020A (Aqueous)	10/5/2016 4:15:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 8:45:00 PM	8	180	Yes
SW846 8082A (Aqueous)	10/5/2016 4:15:00 PM	10/11/2016	10/14/2016 3:03:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/18/2016 12:50:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-7

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 7470A (Aqueous)	10/5/2016 5:15:00 PM	10/11/2016	10/13/2016 10:55:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 10:34:00 AM	9	28	Yes
SW 7470A (Aqueous)	10/5/2016 5:15:00 PM	10/11/2016	10/13/2016 10:50:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:32:00 PM	9	28	Yes
SW 8260B (Aqueous)	10/5/2016 5:15:00 PM	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 11:41:00 AM	7	14	Yes
SW 8270C (Aqueous)	10/5/2016 5:15:00 PM	10/11/2016	10/12/2016 2:21:00 PM	7	7	Yes	10/13/2016 9:17:00 PM	1	40	Yes
SW846 6020A (Aqueous)	10/5/2016 5:15:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 7:08:00 PM	8	180	Yes
SW846 6020A (Aqueous)	10/5/2016 5:15:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:40:00 PM	9	180	Yes
SW846 6020A (Aqueous)	10/5/2016 5:15:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 8:48:00 PM	8	180	Yes
SW846 8082A (Aqueous)	10/5/2016 5:15:00 PM	10/11/2016	10/14/2016 3:03:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/18/2016 1:01:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-8

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 7470A (Aqueous)	10/6/2016 8:15:00 AM	10/11/2016	10/13/2016 10:55:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 10:35:00 AM	8	28	Yes
SW 7470A (Aqueous)	10/6/2016 8:15:00 AM	10/11/2016	10/13/2016 10:50:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:33:00 PM	8	28	Yes
SW 8260B (Aqueous)	10/6/2016 8:15:00 AM	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 12:05:00 PM	6	14	Yes
SW 8270C (Aqueous)	10/6/2016 8:15:00 AM	10/11/2016	10/12/2016 2:21:00 PM	6	7	Yes	10/13/2016 9:38:00 PM	1	40	Yes
SW846 6020A (Aqueous)	10/6/2016 8:15:00 AM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:52:00 PM	8	180	Yes
SW846 6020A (Aqueous)	10/6/2016 8:15:00 AM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 8:51:00 PM	7	180	Yes
SW846 6020A (Aqueous)	10/6/2016 8:15:00 AM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 7:11:00 PM	7	180	Yes
SW846 8082A (Aqueous)	10/6/2016 8:15:00 AM	10/11/2016	10/14/2016 3:03:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/18/2016 1:12:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-9

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 7470A (Aqueous)	10/6/2016 9:45:00 AM	10/11/2016	10/13/2016 10:50:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:35:00 PM	8	28	Yes
SW 7470A (Aqueous)	10/6/2016 9:45:00 AM	10/11/2016	10/13/2016 10:55:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 10:37:00 AM	8	28	Yes
SW 8260B (Aqueous)	10/6/2016 9:45:00 AM	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 12:28:00 PM	6	14	Yes
SW 8270C (Aqueous)	10/6/2016 9:45:00 AM	10/11/2016	10/12/2016 2:21:00 PM	6	7	Yes	10/13/2016 10:00:00 PM	1	40	Yes
SW846 6020A (Aqueous)	10/6/2016 9:45:00 AM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:55:00 PM	8	180	Yes
SW846 6020A (Aqueous)	10/6/2016 9:45:00 AM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:04:00 PM	7	180	Yes
SW846 6020A (Aqueous)	10/6/2016 9:45:00 AM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 7:14:00 PM	7	180	Yes
SW846 8082A (Aqueous)	10/6/2016 9:45:00 AM	10/11/2016	10/14/2016 3:03:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/18/2016 1:23:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-A

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 7470A (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/13/2016 10:50:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:22:00 PM	8	28	Yes
SW 7470A (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/13/2016 10:55:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 10:27:00 AM	8	28	Yes
SW 8260B (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 10:08:00 AM	6	14	Yes
SW 8270C (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/12/2016 2:21:00 PM	6	7	Yes	10/13/2016 7:52:00 PM	1	40	Yes
SW846 6020A (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 12:27:00 PM	8	180	Yes
SW846 6020A (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 6:55:00 PM	7	180	Yes
SW846 6020A (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/13/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 8:36:00 PM	7	180	Yes
SW846 8082A (Aqueous)	10/6/2016 12:00:00 PM	10/11/2016	10/14/2016 3:03:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/17/2016 4:20:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: TB-1 (C13)

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 8260B (Aqueous)	10/5/2016	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 12:51:00 PM	7	14	Yes

Sample Identification: TB-2 (8-J)

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 8260B (Aqueous)	10/5/2016	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 2:01:00 PM	7	14	Yes

Sample Identification: TB-3 (17-C)

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 8260B (Aqueous)	10/5/2016	10/11/2016		No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 2:25:00 PM	7	14	Yes

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: Battery Storage Area 0-1"

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW846 8082A (Solid)	10/6/2016 11:40:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 8:34:00 PM	No Analysis Holding Time Limit		No Data
SW846 8082A (Solid)	10/6/2016 11:40:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/17/2016 11:45:00 AM	No Analysis Holding Time Limit		No Data

Sample Identification: Battery Storage Area 1-12"

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/6/2016 11:40:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:20:00 PM	8	180	Yes
SW846 6010C (Solid)	10/6/2016 11:40:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:20:00 PM	8	180	Yes
SW846 7010 (Solid)	10/6/2016 11:40:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 2:09:00 AM	7	180	Yes
SW846 7471B (Solid)	10/6/2016 11:40:00 AM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:41:00 PM	7	28	Yes

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: Core Cuttings

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/6/2016 3:15:00 PM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:26:00 PM	8	180	Yes
SW846 6010C (Solid)	10/6/2016 3:15:00 PM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:26:00 PM	8	180	Yes
SW846 7010 (Solid)	10/6/2016 3:15:00 PM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 2:32:00 AM	7	180	Yes
SW846 7471B (Solid)	10/6/2016 3:15:00 PM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:47:00 PM	7	28	Yes
SW846 8082A (Solid)	10/6/2016 3:15:00 PM	10/11/2016	10/11/2016 2:18:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 2:27:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-1 0-2'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/5/2016 7:55:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:38:00 PM	8	180	Yes
SW 8270C (Solid)	10/5/2016 7:55:00 AM	10/11/2016	10/11/2016 2:22:00 PM	6	14	Yes	10/12/2016 3:21:00 PM	1	40	Yes
SW846 6010C (Solid)	10/5/2016 7:55:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:38:00 PM	8	180	Yes
SW846 7010 (Solid)	10/5/2016 7:55:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 12:55:00 AM	8	180	Yes
SW846 7471B (Solid)	10/5/2016 7:55:00 AM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:08:00 PM	8	28	Yes
SW846 8082A (Solid)	10/5/2016 7:55:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 6:04:00 PM	No Analysis Holding Time Limit		No Data

Sample Identification: GP-1 2-4'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 8260B (Solid)	10/5/2016 7:55:00 AM	10/11/2016	10/12/2016 7:11:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 9:58:00 AM	7	40	Yes

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-10 0-2'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/6/2016 10:05:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:15:00 PM	8	180	Yes
SW 8270C (Solid)	10/6/2016 10:05:00 AM	10/11/2016	10/11/2016 2:22:00 PM	5	14	Yes	10/12/2016 5:50:00 PM	1	40	Yes
SW846 6010C (Solid)	10/6/2016 10:05:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:15:00 PM	8	180	Yes
SW846 7010 (Solid)	10/6/2016 10:05:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 8:03:00 PM	7	180	Yes
SW846 7471B (Solid)	10/6/2016 10:05:00 AM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:28:00 PM	7	28	Yes
SW846 8082A (Solid)	10/6/2016 10:05:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 7:41:00 PM	No Analysis Holding Time Limit		No Data
SW846 8082A (Solid)	10/6/2016 10:05:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/17/2016 11:02:00 AM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-10 2-4'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 8260B (Solid)	10/6/2016 10:05:00 AM	10/11/2016	10/12/2016 7:11:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 1:40:00 PM	6	40	Yes

Sample Identification: GP-2 0-2'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/5/2016 9:55:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:13:00 PM	9	180	Yes
SW 8270C (Solid)	10/5/2016 9:55:00 AM	10/11/2016	10/11/2016 2:22:00 PM	6	14	Yes	10/12/2016 2:38:00 PM	1	40	Yes
SW846 6010C (Solid)	10/5/2016 9:55:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:13:00 PM	9	180	Yes
SW846 7010 (Solid)	10/5/2016 9:55:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 1:11:00 AM	8	180	Yes
SW846 7471B (Solid)	10/5/2016 9:55:00 AM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:12:00 PM	8	28	Yes
SW846 8082A (Solid)	10/5/2016 9:55:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 6:15:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-2 2-4'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 8260B (Solid)	10/5/2016 9:55:00 AM	10/11/2016	10/12/2016 7:11:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 10:22:00 AM	7	40	Yes

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-3 0-2'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/5/2016 9:00:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:46:00 PM	8	180	Yes
SW 8270C (Solid)	10/5/2016 9:00:00 AM	10/11/2016	10/11/2016 2:22:00 PM	6	14	Yes	10/12/2016 2:59:00 PM	1	40	Yes
SW846 6010C (Solid)	10/5/2016 9:00:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:46:00 PM	8	180	Yes
SW846 7010 (Solid)	10/5/2016 9:00:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 1:15:00 AM	8	180	Yes
SW846 7471B (Solid)	10/5/2016 9:00:00 AM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:17:00 PM	8	28	Yes
SW846 8082A (Solid)	10/5/2016 9:00:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 6:26:00 PM	No Analysis Holding Time Limit		No Data
SW846 8082A (Solid)	10/5/2016 9:00:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/17/2016 10:40:00 AM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-3 2-4'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 8260B (Solid)	10/5/2016 9:00:00 AM	10/11/2016	10/12/2016 7:11:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 10:47:00 AM	7	40	Yes

Sample Identification: GP-4 0-2'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/5/2016 10:40:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:52:00 PM	8	180	Yes
SW 8270C (Solid)	10/5/2016 10:40:00 AM	10/11/2016	10/11/2016 2:22:00 PM	6	14	Yes	10/12/2016 3:42:00 PM	1	40	Yes
SW846 6010C (Solid)	10/5/2016 10:40:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:52:00 PM	8	180	Yes
SW846 7010 (Solid)	10/5/2016 10:40:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 1:19:00 AM	8	180	Yes
SW846 7471B (Solid)	10/5/2016 10:40:00 AM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:19:00 PM	8	28	Yes
SW846 8082A (Solid)	10/5/2016 10:40:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 6:36:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-4 2-4'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 8260B (Solid)	10/5/2016 10:40:00 AM	10/11/2016	10/12/2016 7:11:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 11:12:00 AM	7	40	Yes

Sample Identification: GP-5 0-2'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/5/2016 1:30:00 PM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:54:00 PM	8	180	Yes
SW 8270C (Solid)	10/5/2016 1:30:00 PM	10/11/2016	10/11/2016 2:22:00 PM	6	14	Yes	10/12/2016 4:03:00 PM	1	40	Yes
SW846 6010C (Solid)	10/5/2016 1:30:00 PM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:54:00 PM	8	180	Yes
SW846 7010 (Solid)	10/5/2016 1:30:00 PM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 1:22:00 AM	8	180	Yes
SW846 7471B (Solid)	10/5/2016 1:30:00 PM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:20:00 PM	8	28	Yes
SW846 8082A (Solid)	10/5/2016 1:30:00 PM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 6:47:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-5 2-4'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 8260B (Solid)	10/5/2016 1:30:00 PM	10/11/2016	10/12/2016 7:11:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 11:36:00 AM	7	40	Yes

Sample Identification: GP-6 0-2'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/5/2016 3:15:00 PM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:55:00 PM	8	180	Yes
SW 8270C (Solid)	10/5/2016 3:15:00 PM	10/11/2016	10/11/2016 2:22:00 PM	6	14	Yes	10/12/2016 4:25:00 PM	1	40	Yes
SW846 6010C (Solid)	10/5/2016 3:15:00 PM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:55:00 PM	8	180	Yes
SW846 7010 (Solid)	10/5/2016 3:15:00 PM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 1:26:00 AM	8	180	Yes
SW846 7471B (Solid)	10/5/2016 3:15:00 PM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:22:00 PM	8	28	Yes
SW846 8082A (Solid)	10/5/2016 3:15:00 PM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 6:58:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-6 2-4'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 8260B (Solid)	10/5/2016 3:15:00 PM	10/11/2016	10/12/2016 7:11:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 12:01:00 PM	7	40	Yes

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-7 0-2'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/5/2016 5:00:00 PM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:57:00 PM	8	180	Yes
SW 8270C (Solid)	10/5/2016 5:00:00 PM	10/11/2016	10/11/2016 2:22:00 PM	6	14	Yes	10/12/2016 4:46:00 PM	1	40	Yes
SW846 6010C (Solid)	10/5/2016 5:00:00 PM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:57:00 PM	8	180	Yes
SW846 7010 (Solid)	10/5/2016 5:00:00 PM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 1:38:00 AM	8	180	Yes
SW846 7471B (Solid)	10/5/2016 5:00:00 PM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:23:00 PM	8	28	Yes
SW846 8082A (Solid)	10/5/2016 5:00:00 PM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/18/2016 2:06:00 PM	No Analysis Holding Time Limit		No Data
SW846 8082A (Solid)	10/5/2016 5:00:00 PM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 7:09:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-7 2-4'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 8260B (Solid)	10/5/2016 5:00:00 PM	10/11/2016	10/12/2016 7:11:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 12:26:00 PM	7	40	Yes

Sample Identification: GP-8 0-2'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/6/2016 7:55:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:59:00 PM	7	180	Yes
SW 8270C (Solid)	10/6/2016 7:55:00 AM	10/11/2016	10/11/2016 2:22:00 PM	5	14	Yes	10/12/2016 5:07:00 PM	1	40	Yes
SW846 6010C (Solid)	10/6/2016 7:55:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 9:59:00 PM	7	180	Yes
SW846 7010 (Solid)	10/6/2016 7:55:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 8:00:00 PM	7	180	Yes
SW846 7471B (Solid)	10/6/2016 7:55:00 AM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:25:00 PM	7	28	Yes
SW846 8082A (Solid)	10/6/2016 7:55:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 7:19:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-8 2-4'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 8260B (Solid)	10/6/2016 7:55:00 AM	10/11/2016	10/12/2016 7:11:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 12:50:00 PM	6	40	Yes

Sample Identification: GP-9 0-2'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/6/2016 8:55:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 10:00:00 PM	7	180	Yes
SW 8270C (Solid)	10/6/2016 8:55:00 AM	10/11/2016	10/11/2016 2:22:00 PM	5	14	Yes	10/12/2016 5:29:00 PM	1	40	Yes
SW846 6010C (Solid)	10/6/2016 8:55:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 10:00:00 PM	7	180	Yes
SW846 7010 (Solid)	10/6/2016 8:55:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 1:46:00 AM	7	180	Yes
SW846 7471B (Solid)	10/6/2016 8:55:00 AM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:26:00 PM	7	28	Yes
SW846 8082A (Solid)	10/6/2016 8:55:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 7:30:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: GP-9 2-4'

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 8260B (Solid)	10/6/2016 8:55:00 AM	10/11/2016	10/12/2016 7:11:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 1:15:00 PM	6	40	Yes

Sample Identification: Railroad Tracks 0-1"

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW846 8082A (Solid)	10/6/2016 11:25:00 AM	10/11/2016	10/11/2016 2:18:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 2:17:00 PM	No Analysis Holding Time Limit		No Data
SW846 8082A (Solid)	10/6/2016 11:25:00 AM	10/11/2016	10/11/2016 2:18:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 3:17:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: Railroad Tracks 1-12"

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/6/2016 11:25:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:29:00 PM	8	180	Yes
SW846 6010C (Solid)	10/6/2016 11:25:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:29:00 PM	8	180	Yes
SW846 7010 (Solid)	10/6/2016 11:25:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 8:07:00 PM	7	180	Yes
SW846 7471B (Solid)	10/6/2016 11:25:00 AM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:42:00 PM	7	28	Yes

Sample Identification: Scrap Area #1 (0-1") (CSSA1)

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW846 8082A (Solid)	10/6/2016 10:10:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 7:52:00 PM	No Analysis Holding Time Limit		No Data
SW846 8082A (Solid)	10/6/2016 10:10:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/17/2016 11:13:00 AM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: Scrap Area #1 (1-12") (CSSA1)

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/6/2016 10:10:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:17:00 PM	8	180	Yes
SW846 6010C (Solid)	10/6/2016 10:10:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:17:00 PM	8	180	Yes
SW846 7010 (Solid)	10/6/2016 10:10:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 1:54:00 AM	7	180	Yes
SW846 7471B (Solid)	10/6/2016 10:10:00 AM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:51:00 PM	7	28	Yes

Sample Identification: Scrap Area #2 (0-1") (CSSA2)

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW846 8082A (Solid)	10/6/2016 10:50:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/17/2016 11:24:00 AM	No Analysis Holding Time Limit		No Data
SW846 8082A (Solid)	10/6/2016 10:50:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 8:02:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: Scrap Area #2 (1-12") (CSSA2)

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/6/2016 10:50:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 10:05:00 PM	7	180	Yes
SW846 6010C (Solid)	10/6/2016 10:50:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 10:05:00 PM	7	180	Yes
SW846 7010 (Solid)	10/6/2016 10:50:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 1:57:00 AM	7	180	Yes
SW846 7471B (Solid)	10/6/2016 10:50:00 AM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:31:00 PM	7	28	Yes

Sample Identification: Scrap Area #3 (0-1") (CSSA3)

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW846 8082A (Solid)	10/6/2016 10:30:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/17/2016 11:34:00 AM	No Analysis Holding Time Limit		No Data
SW846 8082A (Solid)	10/6/2016 10:30:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 8:13:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: Scrap Area #3 (1-12") (CSSA3)

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/6/2016 10:30:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:18:00 PM	8	180	Yes
SW846 6010C (Solid)	10/6/2016 10:30:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/14/2016 2:18:00 PM	8	180	Yes
SW846 7010 (Solid)	10/6/2016 10:30:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 2:01:00 AM	7	180	Yes
SW846 7471B (Solid)	10/6/2016 10:30:00 AM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:38:00 PM	7	28	Yes

Sample Identification: Scrap Area #4 (0-1") (CSSA4)

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW846 8082A (Solid)	10/6/2016 11:10:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/18/2016 3:00:00 PM	No Analysis Holding Time Limit		No Data
SW846 8082A (Solid)	10/6/2016 11:10:00 AM	10/11/2016	10/11/2016 2:16:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/12/2016 8:24:00 PM	No Analysis Holding Time Limit		No Data

**HOLDING TIME
 QUALITY CONTROL REPORT**

Project Name: B & T Metals - Gering, NE

Sample Identification: Scrap Area #4 (1-12") (CSSA4)

Analysis	Sampling Date and Time	Lab Receipt Date	Extraction Date and Time	Extraction Time Elapsed (days)	Extraction Holding Time (days)	Adequate Extraction Holding Time	Analysis Date and Time	Analysis Time Elapsed (days)	Analysis Holding Time (days)	Adequate Analysis Holding Time
SW 6010B (Solid)	10/6/2016 11:10:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 10:12:00 PM	7	180	Yes
SW846 6010C (Solid)	10/6/2016 11:10:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 10:12:00 PM	7	180	Yes
SW846 7010 (Solid)	10/6/2016 11:10:00 AM	10/11/2016	10/12/2016 10:00:00 AM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 2:05:00 AM	7	180	Yes
SW846 7471B (Solid)	10/6/2016 11:10:00 AM	10/11/2016	10/11/2016 3:42:00 PM	No Extraction Holding Time Limit		No Extraction Holding Time Limit	10/13/2016 3:39:00 PM	7	28	Yes

APPENDIX F

WELL GAUGING, PURGING, AND SAMPLING DATA

Terracon Project Name: B + T Metals

Terracon Project Number: _____ Task Number: _____

Date(s): 10/5 to 10/6

Measurements Taken By: A. Herman

Weather Conditions: 60's Temperature: _____

Measuring Device: _____ Unit Number: _____

Sample Order (1, 2, 3, ...)	Well No.	Water Level Date	Water Level Time (24 hr)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Well Depth (feet)	Min. Purge Volume* (gal)	Purge Start Time (24 hr)	Purge Stop Time (24 hr)	Actual Purge Volume (gal)	Sample Date	Sample Time (24 hr)	Duplicate ID	PH Result Well Condition
24hr	GP-1	10/6	12:10		10.4		20'	—	—	—		10/6	12:50		7.6
	GP-2	10/6	12:15		11.8			—	—	—		10/6			7.8
	GP-3	10/6	11:20	—	11.5	—	18'	8	11:50	12:00	8	10/6	12:00	GP-A	7.5
	GP-4	10/6	12:35	13.9	11.8							10/6			7.6
	GP-5	10/5	12:35	—	12.4	—	18'	0.67	2:25	2:35	0.67	10/5	2:35		7.5
	GP-6	10/5	4:00	—	10.8	—	23'	1.4	4:00	4:15	1.4	10/5	4:15		7.8
	GP-7	10/5	5:05	—	13.5	—	25'	1.4	5:05	5:15	1.4	10/5	5:15		7.9
	GP-8	10/6	8:05	—	13.2	—	25'	1.4	8:05	8:15	1.4	10/6	8:15		7.5
	GP-9	10/6	9:30	—	24.8		30'	0.6	9:30	9:45	0.6	10/6	9:45		7.8

* (Feet of Water in Well) x (0.83 gal/ft) = 5 well volumes in gallons for 2" diameter well
(Feet of Water in Well) x (3.3 gal/ft) = 5 well volumes in gallons for 4" diameter well

(Feet of Water in Well) x (0.5 gal/ft) = 3 well volumes in gallons for 2" diameter well
(Feet of Water in Well) x (2 gal/ft) = 3 well volumes in gallons for 4" diameter well

Field Blank FB-1 Exposure Time - Start (Filled): _____ Stop (Lid Closed): _____ - Should be equal to the amount of time that the lids are removed from the sample jars and they

Field Blank FB-2 Exposure Time - Start (Filled): _____ Stop (Lid Closed): _____ - are exposed to the atmosphere. One field blank per day or with change in site conditions

Cooler #1 ID: _____ - Pre-Ship Temp: _____ Cooler #2 ID: _____ - Pre-Ship Temp: _____ Cooler #2 ID: _____ - Pre-Ship Temp: _____

NOTES: _____

objects (continued).

October 4, 2016

Myself (Andrew Herman) and drillers
(Andrew Leary and Alex Lorence)
arrived at site at 4:30. We
spoke to the owner and discussed
the project with him. The drillers
unloaded geoprobes and parked
trailers. We walked the site to
discuss boring locations. We left
the site at 5:20.

October 5, 2016

Arrived at site at 7:00 am,
and began to drill GP-1.

GP-1 sampled soil and set temp
well.

GP-3 sampled soil and set temp
well.

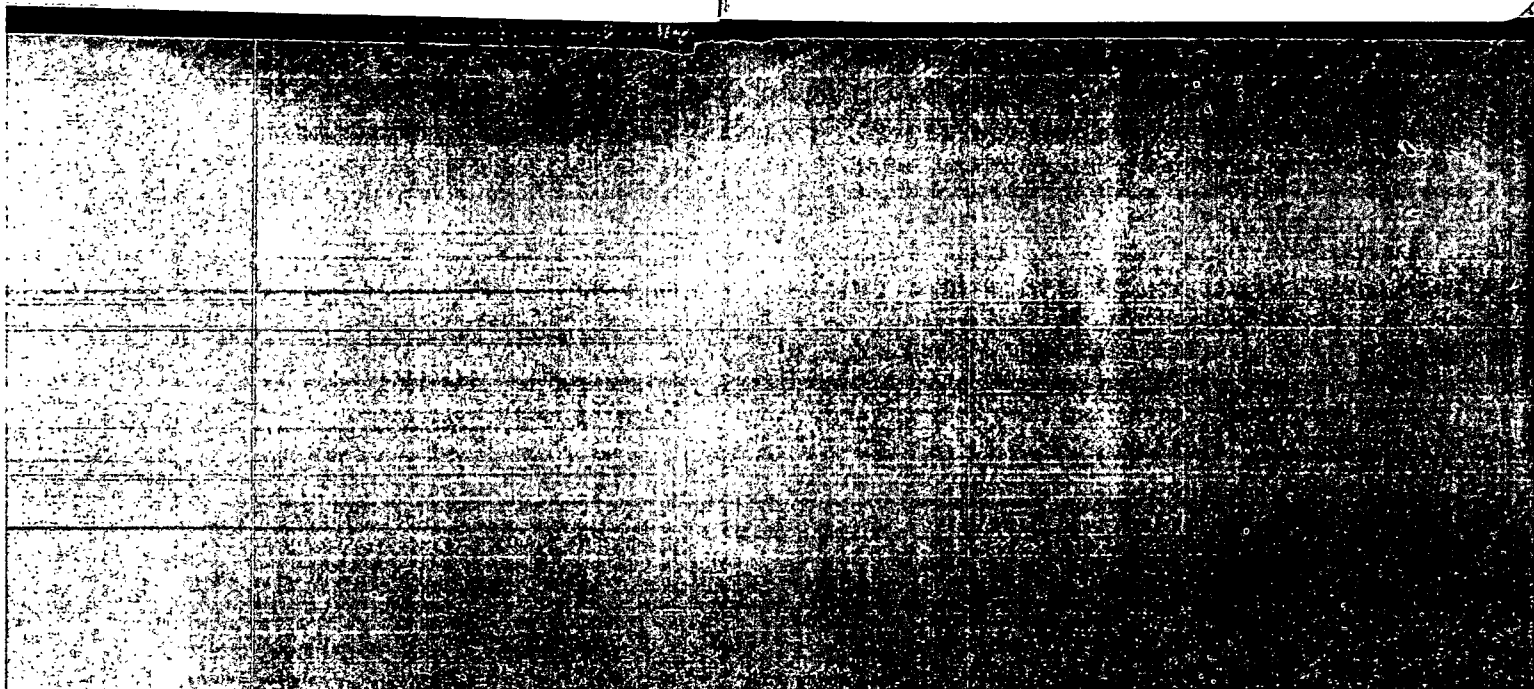
GP-2 sampled soil and set temp
well.

GP-4 sampled soil and set temp well.

11:00 The drillers needed to purchase
equipment and ^{I asked them to} purchased 5-gallon
buckets for soil cutting and use H₂O.

I went to purchase ziplock bags
and additional bags of ice for
samples.

I arrived back on site and put
ice on samples and began to PID
GP-1 to GP-4 samples. Drillers arrived
and began to resume GP-5.



October 5, 2016 cont.

We had issues w/ not getting water in well. After discussing w/ Megan Hughes we decided to drill to a deeper depth i.e. 23 ft bgs. After which we were able to collect water samples.

Advanced GP-6 - also issues w/ no water so advanced deeper. were able to collect water.

Advanced GP-7 to depth of 25' to ensure adequate water for sampling.

Wrapped up site - picked up trash, put lids on soil cuttings and rinsed large water buckets. Also closed gates to property.

Left site at app. 6:15.

gw = ground water

October 6, 2016

I Arrived on site at 7:15 and began to get ready to sample GP-8. Dollars arrived at 7:30 and advanced GP-8 - sampled soil & gw.

Advanced GP-9 - sampled soil & gw.

Advanced GP-10 - sampled soil.

measured depth to gw - GP-3.

Began to ^{purge} ~~sample~~ temp well GP-3 and well was not producing water.

Called Megan Hughes to trouble shoot. She said we needed to get well depths on remaining temp wells (GP-1, GP-2, and GP-4). Due to slow recharge we did not purge temp wells.

We started to sample GP-1 and well was running dry. Decided to start to develop remaining wells to allow to re-charge gw.

Started to sample GP-3 again issues w/ well running dry. Moved to GP-2 & GP-4 and had some issues.

October 6, 2014 cont.

While we waited for wells to recharge collected equipment rinse, decon/purge water, & field blank samples.

Finished GP-1 and began to sample remaining wells. Still issues w/ recharging so ^{A.H.} sampled moved from GP-2, GP-3, & GP-4.

While waiting began to clean-up site and collect trash.

Finished sampling GP-2, GP-3, & GP-4 and Andrew Leary took trash to western sugar dumpster.

Alex and I marked location of temp wells (GP-1 to GP-4) w/ paint and stakes.

Drillers began to load equipment, while I put labels on soil cuttings and purge water/decon water containers.

Drillers left and I spoke to owner and indicated we would

October 6, 2016 cont.
came back to survey 70m p wells
and pending analysis. dispose of
containers of soil cuttings / large water

I completed remaining PIP of
field samples (GP-8, GP-9, + GP-10)

I helped owner close gates
and loaded remaining equipment
into truck. Completed daily log
and left site at app 6:05.

APPENDIX G

Property-Specific Sampling and Analysis Plan, Revision No. 2

B&T Metals

1855 3rd Street

Gering, Scotts Bluff County, Nebraska

EPA Cooperative Agreement No. BF-97746301

ACRES #206549

NDEQ IIS: 44132

NDEQ Program ID: BF00274

September 12, 2016

Terracon Project No. 24159093 / 05159093



Prepared for:

City of Gering

Gering, Nebraska

Prepared by:

Terracon Consultants, Inc.

Omaha, Nebraska



September 12, 2016

City of Gering
1025 P Street
Gering, Nebraska 69341

Attn: Mr. Paul Snarr
P: (308) 436 5096
E: psnarr@gering.org

Re: Property-Specific Sampling and Analysis Plan, Revision No. 2
B & T Metals
1855 3rd Street
Gering, Scotts Bluff County, Nebraska
EPA Brownfields Hazardous Substance Assessments
EPA Cooperative Agreement # BF-97746301
ACRES # 206549
NDEQ IIS: 44132
NDEQ Program ID: BF00274
Gering, Nebraska

Terracon Project No. 24159093 / 05159093

Dear Mr. Snarr:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Property-Specific Sampling and Analysis Plan, Revision 1 (PSAP) to you under the Professional Services Agreement between Terracon and the City of Gering dated May 28, 2015. This plan was developed as part of the community-wide United States Environmental Protection Agency, Region 7 (EPA) Brownfields Hazardous Substances Assessment Grant, EPA Cooperative Agreement No. BF-97746301.

Services are consistent with the EPA-approved *CERCLA Section 104(k) Assessment Cooperative Agreement Work Plan for Gering, Nebraska - Brownfields Assessment Cooperative Agreement, Project Period: October 1, 2014 – September 30, 2017*. This project and assessment support progress toward EPA's Strategic Plan Goal 3 "*Cleaning Up Communities and Advancing Sustainable Development*", Objective 3.1 "*Promote Sustainable and Livable Communities*". The City of Gering is a member of the Tenth Street Corridor Brownfield Coalition, engaging other members relative to local and regional redevelopment goals.

Consistent with the EPA-approved cooperative agreement work plan and previous Section 104(k) work done under grant in EPA Region 7, the PSAP for conducting this assessment will parallel that of the Nebraska Department of Environmental Quality's (NDEQ) Superfund and Section

Terracon Consultants, Inc. 15080 A Circle Omaha, Nebraska 68144
P [402] 330 2202 F [402] 330 7606 terracon.com

Environmental



Facilities



Geotechnical



Materials

128(a) Assessment program. Through mutual agreement between City of Gering as cooperative agreement recipient, EPA and NDEQ, the state agency will provide primary review and approval of this PSAP. This has been previously discussed between Mr. Tom Buell, NDEQ and the EPA Project Officer Ms. Jennifer Morris, EPA specific to the Gering project.

The PSAP has been developed to provide a specific scope of work based on the results for the Phase I Environmental Assessment. It is guided by the *Quality Assurance Project Plan - Revision 1, EPA Brownfields Hazardous Substance Assessments, Gering, Scotts Bluff County, Nebraska, EPA Cooperative Agreement No. BF-97746301, November 13, 2015. Terracon Project No. 24159093 / 05159043* (NDEQ signed the signature page on November 16, 2015). A Site-Specific QAPP Addendum for NDEQ's QAPP for Superfund Assessment and Section 128(a) Assessment Programs (June 2009) is part of this plan.

This document is prepared for the exclusive use of our client for the specific application to the project discussed and has been prepared in accordance with generally accepted environmental consulting practices. No warranties, express or implied, are intended or made. In the event any changes in conditions as outlined in this plan are observed, the conclusions contained in this document cannot be considered valid unless the changes are reviewed and the conclusions of this document are modified or verified in writing by the environmental professional.

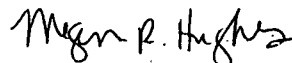
If there are questions concerning the PSAP or if we may be of further assistance, please contact the Phase II Assessment Coordinator, Ms. Megan Hughes at [402-384-7025] or Megan.Hughes@terracon.com. Alternatively, you may also contact the Senior Technical Reviewer, Mr. Mike Hagemeister at [402-384-7019] or Mike.Hagemeister@terracon.com.

Sincerely,

Terracon Consultants, Inc.



Michael E. Hagemeister, P.E.
Senior Technical Reviewer



Megan R. Hughes
Phase II Assessment Coordinator

MEH/MRH:meh/kmt

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APPENDIX A – FIGURES

Figure 1 – Topographic / Location Map

Figure 2 – Proposed Sample Location Diagram

APPENDIX B – TABLES

Table 1 – Sampling and Analysis Matrix Summary

Table 2 – Laboratory Provided Analyte Reporting Limits and Method Detection Limits

APPENDIX C – QUALITY ASSURANCE PROJECT PLAN ADDENDUM

APPENDIX D – TABLE 3 - 2016 PROJECT SCHEDULE

APPENDIX E – SITE SAFETY AND HEALTH PLAN

PROPERTY-SPECIFIC SAMPLING AND ANALYSIS PLAN

REVISION No. 2

B&T Metals

1855 3rd Street

Gering, Scotts Bluff County, Nebraska

EPA COOPERATIVE AGREEMENT # BF-97746301

ACRES # 206549

NDEQ IIS: 44132

NDEQ Program ID: BF00274

Terracon Project No. 05159093

September 12, 2016

1.0 INTRODUCTION

This plan is intended as a streamlined, property-specific addendum to the *Quality Assurance Project Plan - Revision 1, EPA Brownfields Hazardous Substance Assessments, Gering, Scotts Bluff County, Nebraska, EPA Cooperative Agreement No. BF-97746301, November 13, 2015. Terracon Project No. 24159093 / 05159043 (QAPP)*. The generic QAPP has been approved by NDEQ (signed by NDEQ on November 16, 2015). A Site-Specific QAPP Addendum for NDEQ's QAPP for Superfund Assessment and Section 128(a) Assessment Programs (June 2009) is part of the PSAP as Appendix C.

This property was approved for Phase I environmental site assessment using EPA grant funding by USEPA, Region 7 via email (Jennifer Morris) on May 8, 2015 as "City of Gering – Site Liability Determination (B&T Metals)". A Site-Specific QAPP Addendum for NDEQ's QAPP for Superfund Assessment and Section 128(a) Assessment Programs (June 2009) is part of the PSAP as Appendix C.

1.1 Objective

The purpose of the PSAP is to evaluate Recognized Environmental Concerns (RECs) identified during the Phase I Environmental Site Assessment (ESA), for the B&T Metals site, dated November 16, 2015.

The City intends to promote these properties as part of a long-term community redevelopment plan. The degree to which RECs or data gaps are actually representative of environmental impacts as determined under Nebraska regulations can affect financing. The type and magnitude of impairment directly relate to decisions and negotiations. The following elements are necessary in considering feasibility of property redevelopment:

- Does the potential for environmental impairment implied by a Brownfields Phase I assessment REC actually exist?
- If identified, has a potential condition actually resulted in environmental impairment?
- If impaired, does the degree of impairment remove a property from consideration of purchase or redevelopment?

Terracon identified the following on-site recognized environmental conditions (RECs) in connection with the site:

- REC 1: Several empty 55-gallon drums of hydraulic oil and a 5-gallon gas can were observed stored outdoors on the ground surface at the site. The 5-gallon gas can was leaking onto the soil surface. Petroleum-based oils and lubricants and their residues are commonly associated with metal scrapping and salvage operations. Soil staining was observed around some of the empty hydraulic oil drums. Considering the nature of metal salvage and scrapping operations, potential releases could reasonably be expected to be co-mingled with non-petroleum materials, such as polychlorinated biphenyls (PCBs), until otherwise differentiated by chemical analysis.
- REC 2: Several empty and half-full unlabeled 55-gallon drums with unknown substances were observed stored outdoors on the ground surface at the site. Some of the drums were leaking unknown substances onto the soil surface. It is Terracon's understanding that the drums have since been removed from the site property.
- REC 3: Soil staining throughout the site at several locations from releases of unknown substances.

Significant data gaps were not identified as part of the Phase I ESA. As such, there is no work scope consideration for data gaps.

1.2 Site Location and Background Information

The site, B&T Metals, is located at 1855 3rd Street in Gering Nebraska. The location of the property is indicated on the topographic map included as Exhibit 1 of Appendix A. The site property is a total of 1.63 acres made up of six privately owned lots totaling 1.15 acres and an encroachment of an additional 0.48 acres onto the City's Right-of-Way. The site has been improved with two storage buildings, concrete paved parking, a concrete pad, and outdoor storage areas without hard surfacing. The site features are illustrated on Exhibit 2, Site Diagram, in Appendix A. At the time of the site reconnaissance on September 9, 2015, the site was an inactive former metal recycling facility with significant artifacts of the former business remaining on the property. It was reported during the interview for the Phase I ESA that metal recycling business operated at the property for approximately of 60 years.

This PSAP pertains to and sets forth the site assessment activities and field sampling locations for the site. This PSAP is to be used in conjunction with the Community-Wide QAPP Revision 1 for the City of Gering, Grant BF-97746301, dated November 13, 2015. The QAPP describes data collection procedures and data evaluation processes to ensure that appropriate levels of data quality are obtained for field sampling, testing, and analytical activities. The PSAP provides a discussion of specific site objectives, site description, and details regarding site-specific field sampling, analytical testing, and Quality Assurance (QA) / Quality Control (QC) activities through a QAPP Addendum to the QAPP.

2.0 SCOPE OF SERVICES

Our services will be conducted as the following tasks:

- Conduct soil and groundwater sampling to assess subsurface conditions at the site.
- Provide a technical report of the findings of the subsurface assessment. Soil and groundwater analytical results will be compared to relevant NDEQ Voluntary Clean-up Program (VCP) Remediation Goals (RGs).

3.0 PROJECT ORGANIZATION AND RESPONSIBILITY

The Terracon team will include Clay Muirhead as Project Manager (PM), Megan Hughes as Phase II Assessment Coordinator (AC), and Michael Hagemeister as Senior Technical Reviewer. Mr. David Koch is the Brownfields Senior Project Advisor. TestAmerica Laboratories in Cedar Falls, Iowa will provide laboratory analysis for samples collected.

4.0 SAMPLING APPROACH

The contaminants of concern (COC) associated with the site include:

- volatile organic compounds (VOCs) from historical site operations;
- poly-aromatic hydrocarbons (PAHs) from historical site operations;
- RCRA Metals, from historical site operations, including battery recycling/reclamation; and
- polychlorinated biphenyls (PCBs), soil staining from historical site operations.

A site-specific QAPP Addendum that supplements the Community-wide QAPP is included in Appendix C. Also included is a project specific time table in Appendix D. The proposed sampling locations are depicted on Exhibit 2 of Appendix A. Field conditions will determine the actual sampling locations and sampling approach, such a deviation would be discussed with the client, the NDEQ, and reported in the final report.

5.0 FIELD PROCEDURES

The project will make use a variety of routine technical and data quality management procedures. As set forth in the Generic NDEQ QAPP, quality process and data quality indicators are improved with routine, repeatable implementation of field procedures. In part, quality process is enhanced through the use of standard operating procedures. The following *Table of Terracon Standard Operating Procedures* are available for use in this PSAP. More detailed discussion of some procedures are identified hereafter.

TABLE OF TERRACON STANDARD OPERATING PROCEDURES For EPA Brownfield Cooperative Agreement Projects (TSOPs)			
REFERENCE NUMBER		TITLE	LAST REVISED OR REVIEWED
X	E.10	Project Mobilization	November 2013
X	E.20	Standard Safe Operating Procedures for Hazardous Waste Operations	November 2013
X	E.30	Chain of Custody Documentation	November 2013
X	E.35	Field Recordkeeping and Documentation	December 2013
X	E.40	Field Quality Audits and Corrective Action	January 2014
X	E.50	Sampling – Environmental Representativeness	November 2013
X	E.100	Surface & Near Surface Soil Sampling – Grab	November 2013
	E.150	Soil Sampling – Low Level Volatile By TerraCore™	November 2013
	E.155	Soil Sampling – High Level Volatile By TerraCore™	May 2014
	E.200	Surface Soil Sampling – Oakfield	November 2013
X	E.300	Sampling & Drilling Platforms	November 2013
	E.310	Auger Drilling and Sampling	November 2013
	E.320	Hollow-stem Auger Drilling	November 2013
	E.325	Casing Advance Drilling	November 2013
	E.330	Fluid Rotary Drilling and Sampling	November 2013
	E.340	Air Rotary Drilling and Sampling	November 2013
X	E.400	Subsurface Sampling – Geoprobe®-like Platforms	November 2013
X	E.410	Subsurface Sampling – General Push-Probe Technology	November 2013
	E.450	Subsurface Soil Sampling – Xitech Sampler	November 2013
	E.460	Subsurface Sampling – Shelby Tube	November 2013
	E.465	Subsurface Sampling – Split Barrel	November 2013
X	E.468	Sample Handling – Soil (Level D)	November 2013
X	E.470	Sample Handling – Groundwater (Non-Hazardous)	November 2013
	E.480	Surface Water Sampling	June 2012
	E.500	pH Field Screening – Soil	November 2013
X	E.530	pH Field Screening – Water	November 2013
	E.540	Conductivity Field Screening – Water	November 2013
X	E.550	Field Surface Screening – Soil / Photoionization Detector	November 2013
X	E.552	Field Headspace Screening – Soil / Photoionization Detector	November 2013
X	E.554	Field Screening – Air / Photoionization Detector	October 2013
	E.556	Field Screening – Laser Induced Fluorescence	May 2014
	E.558	Field Screening – Passive Soil Gas Sampling	October 2013
	E.560	SVOC Field Screening – Soil /Ultraviolet	November 2013
	E.570	Temperature Field Screening	November 2013

TABLE OF TERRACON STANDARD OPERATING PROCEDURES
For EPA Brownfield Cooperative Agreement Projects (TSOPs)

REFERENCE NUMBER	TITLE	LAST REVISED OR REVIEWED
E.580	Turbidity Field Screening	November 2013
E.590	Airborne Lead and Particulate Matter Monitoring	November 2013
E.600	H ₂ S Field Screening – Field Detector	November 2013
E.605	Methane – Field Detector	November 2013
E.610	Radioactivity – Field Detector	November 2013
E.620	Polychlorinated Biphenyl Field Screening: Clor-N-Oil Field Detector	November 2013
E.623	Polychlorinated Biphenyl Field Screening: Clor-N-Soil Field Detector	November 2013
E.630	X-Ray Fluorescence (XRF) Screening – Airborne Dust	November 2013
E.634	X-Ray Fluorescence (XRF) Screening – Lead Paint	November 2013
E.638	X-Ray Fluorescence (XRF) Screening – Soil/Fills	November 2013
E.700	Well Construction – Temporary	November 2013
E.800	Well Construction – Permanent	November 2013
E.900	Well Security – Type A (Simple Cap)	November 2013
E.905	Well Security – Type B (Locking Expansion)	November 2013
E.910	Well Security – Type B (Protective Casing)	November 2013
E.920	Well Security – Type C (Flush Mount)	November 2013
E.1300	Well Development – Volumetric	November 2013
E.1400	Well Development – Parametric	November 2013
X E.1500	Boring Abandonment – Commercial Sealant	November 2013
E.1600	Boring Abandonment – Tremie Grout	November 2013
E.1700	Well Abandonment – Iowa IAC39 Criteria	November 2013
X E.1800	Field Measurement – Surface Layout	November 2013
X E.1805	Field Measurement – Elevations	November 2013
E.1808	Field Measurement – Licensed Survey	November 2013
X E.1810	Field Measurement – Subsurface Soils	November 2013
X E.1820	Field Measurement – Groundwater	November 2013
E.1830	Field Measurement - Free-Phase Product	November 2013
E.1840	Field Measurement – Hydraulic Conductivity Testing (Slug)	November 2013
E.1870	Field Measurement – Electromagnetic Survey	November 2013
X E.1900	Groundwater Sampling – Bailer	November 2013
X E.2000	Groundwater Sampling – Low Flow Pumping	November 2013
E.2100	Soil Vapor Sampling – Iowa IAC135	November 2013
X E.2210	Site Housekeeping - General	November 2013
E.2220	Site Housekeeping - Disposal of Spent Supplies	November 2013
X E.2230	Site Housekeeping - Handling and Storage of Drill Cuttings IDW (Non-Hazardous)	November 2013
X E.2235	Handling and Storage of Drill Cuttings IDW (Hazardous)	November 2013
X E.2240	Site Security Procedures	November 2013
X E.2405	Cleaning - General	November 2013
X E.2410	Cleaning - Manual Washing	November 2013
E.2420	Cleaning - High-Pressure, Hot-water Washing	November 2013
E.3000	Bulk Sampling of Suspect Asbestos-Containing Material (ACM)	November 2013
E.4000	Sampling of Potential Lead-Based Paint (LBP)	November 2013

5.1 Soil Sampling

Soil samples will be collected in continuous fashion using a macro-core sampler advanced using a direct push probe (TSOPs E.400 and E.410). Soil samples will be collected for field screening, laboratory analysis, field soil classification, and preparation of soil boring logs. Field screening will involve the use of a photo-ionization detector (PID) instrument (TSOP E.552) for indications of volatile organic compounds (VOCs). The PID will be equipped with an 11.7 eV lamp, which is compatible for use in detecting a range of VOCs including some chlorinated solvents that have a relatively high electron potential.

Soil samples (collected for laboratory analysis of VOCs) from within the vadose zone at each boring that exhibits the highest PID response or the most obvious visual indication of chemical impact will be submitted for laboratory analysis. If soils do not appear to be impacted based on the PID or visual indicators, a soil sample from each boring will be collected from the 2-4 foot sampling interval and will be submitted for laboratory testing of VOCs. Field screening methods are not readily available to guide selecting soils samples for analysis of PAHs. Terracon will evaluate soil samples in the field for potential staining as a guide in selecting soil samples for laboratory analyses. In the absence of field indicators of potential impact, soil samples collected from the 0-1 or 1-2 foot sampling intervals will be selected for laboratory analyses

The soil analytical program includes eight RCRA metals and PCBs. Terracon will evaluate surface soils for RCRA metals and PCBs by composite sampling. The site property has been divided into four scrap areas, five composite samples will be collected from both 0-1 and 1-12 inches below ground surface at five locations in each scrap area (as depicted on the Proposed Sampling Location Diagram, Exhibit 2 in Appendix A). This approach will also be used to assess surface soil conditions along the railroad tracks and near the former battery storage area.

See Table 1 (Appendix B) for details regarding specific sample collection depths, laboratory test analytes, and laboratory methods.

5.2 Groundwater Elevations and Sampling

Groundwater samples will be collected from stainless steel probe rods with a SP-16 groundwater sampler (or equal) or small diameter temporary PVC well casings installed in the open boreholes created by the macro-core sampler. Temporary well casings will facilitate groundwater sampling during possible instances of slow groundwater recharge or borehole collapse caused by non-cohesive materials in the saturated zone. The water samples will be collected using either a foot-valve pump and new single-use disposable tubing, a peristaltic pump and new single-use disposable tubing, or small diameter bailers.

Providing that the boreholes allow for installation (do not collapse), temporary well casings will be installed at sample locations GP-1, GP-2, GP-3, and GP-4. The top of casing will be surveyed to a relative site benchmark with an assumed elevation of 100.00 feet. Elevation measurements will

be collected per SOP E.1805. Depth to groundwater measurements will be collected from the temporary wells after a minimum of a 12-hour stabilization period in order to develop a groundwater contour flow diagram of the site as part of this work effort. Following measurement of the groundwater levels, the temporary well casings will be removed and borings abandoned with granular bentonite.

Nine groundwater samples are planned to be collected for eight RCRA metals as part of the groundwater sampling program. Since direct-push technology is planned for the sampling event, proper development of the sample point is not practical prior to groundwater sample collection, so groundwater samples with elevated turbidity are anticipated. As such, Terracon is proposing that a single groundwater sample from each planned location be split, with one sample being analyzed for total metals and the other for dissolved metals. The sample to be analyzed for dissolved metals will be field filtered with a new single-use 0.45-micron high-capacity filter prior to preservation.

At each location, the groundwater sample planned for VOC analyses will be collected first following with the remaining constituents in no particular order. Groundwater samples will be submitted for laboratory analysis. See Table 1 (Appendix B) for details regarding specific laboratory test analytes and laboratory methods.

5.3 Sample Handling

Samples will be collected and transferred to laboratory-supplied containers (some which require special preservation as presented on Table 2 of Appendix B) and placed on ice (all non-metal parameters are required to be kept at 4°C) in an insulated cooler for overnight shipment to the laboratory.

Samples will be shipped via overnight courier to TestAmerica Laboratories of Cedar Falls, Iowa. The sample container labels will indicate:

- Sample number
- Time and date of collection
- Name of site
- Project Number

Chain-of-custody (COC) protocol will be followed during sample collection, storage, shipment, and analysis procedures. A COC record will accompany samples during collection and shipment. The COC forms will be filled out, signed, and dated in permanent ink by a sampling team member. The COC records will include the following information:

- Sample identification
- Date and time of collection

- Sample type
- Number of sample containers
- Laboratory analysis to be performed
- Signature of designated individual responsible for sample custody
- Signature of laboratory person(s) receiving samples
- Requested Analysis.

5.4 QC Sample Collection

QC procedures for groundwater sample collection will be accomplished by the following:

- One blind duplicate sample will be collected for every group of twenty or fewer groundwater samples collected in the field (not including other QA/QC samples). The blind duplicates will be analyzed for the same parameters as their corresponding counterpart samples.
- One trip blank will be prepared by a laboratory and will accompany the sample containers from the time they are shipped from the laboratory to the time when the laboratory receives the containers with samples. The trip blank will be analyzed for the same parameters as other samples to be analyzed.
- A temperature blank will accompany each cooler.
- One field blank will be prepared by a Terracon environmental professional in the field and will accompany the sample containers in a cooler during field activities. The field blank will be analyzed for the same parameters as other samples to be analyzed.
- One equipment rinsate blank will be collected during the field work for evaluating the adequacy of equipment cleaning. The rinsate blank will be analyzed for the same parameters as other samples to be analyzed.
- Matrix spike (MS) and matrix spike duplicate (MSD) samples are typically created and tested by the analyzing laboratory in batches for a pre-determined number of samples. Terracon will request that the analyzing laboratory create and test MS and MSD samples for each batch of 20 or fewer samples (both groundwater and soil) that are specifically collected for this project. A total of one soil sample and one groundwater sample are expected to be tested as MS and MSD samples. Terracon will specify the sample to be used for MS/MSD analyses. Extra volume of the specified sample will need to be collected during field procedures.

QC water samples are listed along with groundwater samples in Table 1 (Appendix B). There will be no QC soil sampling / analyses, which is a deviation from the NDEQ Generic QAPP.

5.5 Cleaning and Investigation Derived Waste

The direct push probe unit and its ancillary sampling equipment will be cleaned prior to and at the completion of the field investigation with potable water and Alconox detergent. Soil and groundwater sampling equipment will be cleaned between boring locations to reduce the chances of cross contamination between borings. In addition, disposable, single-use acetate liners will be used inside macro-core samplers to reduce the chances of cross contamination of soil samples. Cleaning fluids will be collected and containerized in metal drums or plastic totes. Cleaning fluids will remain stored inside drums/totes on the subject site until arrangements for disposal (including waste characterization) have been secured. Arrangements for leaving and securing the liquid waste at the site will need to be made with the property owners. Terracon will evaluate groundwater analytical results collected for this work scope and make a recommendation in the Phase II report on appropriate disposal. In the event that the analytical results indicate potential hazardous waste in the container(s) based on sample results, a follow up composite sample may be collected for toxic characteristic leaching procedure (TCLP) analysis for VOCs and 8 RCRA metals. Arrangements will be made for the appropriate disposal of cleaning fluids, contingent upon NDEQ approval of the said recommendation.

Soil cores will be generated as a consequence of soil sampling with a macro-core sampler. Soil cores will be containerized in a drum. Terracon will evaluate the soil analytical results collected for this work scope and make a recommendation in the Phase II report on appropriate disposal. Indication that the waste is not considered to be hazardous waste may be based on a comparison to industrial clean-up standards listed in the VCP guidance or the 20 times rule for metals. In the event that the analytical results indicate potential hazardous waste in the container(s) based on sample results, a follow up composite sample may be collected for TCLP VOCs and 8 RCRA metals. Arrangements will be made for the appropriate disposal of soil cuttings, contingent upon NDEQ approval of Terracon's disposal recommendation.

Acetate liners used for collecting soil, plastic tubing used to sample groundwater, sampling gloves, small diameter temporary well casing and screen, possible Ty-vek uniforms, etc. are examples of other investigation derived wastes expected to be generated. These types of waste will be placed in ordinary plastic garbage bags and discarded at a sanitary landfill. For some of these items, such as used well casing, containerization will not be conducted and cleaning to remove soil/mud may or may not be performed using alconox detergent and/or potable water prior to leaving the job site.

5.6 Laboratory Selection and Analytical Methods

TestAmerica, Inc. of Cedar Falls, Iowa will be the laboratory used for analyzing soil and water, samples. The Cedar Falls, Iowa laboratory is one of several TestAmerica labs located in the United States. TestAmerica is a National Environmental Laboratory Accreditation Program (NELAP) certified laboratory that maintain various certifications for various states and federal agencies (i.e. U.S. Army Corp of Engineers, United States Department of Agriculture, Food and Drug Administration). The Cedar Falls, Iowa laboratory is a NELAP lab.

Soil and water samples will be analyzed for VOCs (volatile organic compounds), PAHs (poly-aromatic hydrocarbons), eight RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver) and PCBs. Lists of specific analytes and their respective reporting limit concentrations are provided in Table 2 of Appendix B. Information provided on Tables 1 and 2 of Appendix B are intended to meet the requirements of the analytical service request form requirement listed in Section 3.4.2 of the NDEQ Generic QAPP.

6.0 REPORTING

The PSAP report will be submitted to the client, presenting the results of the assessment, based upon the scope of services and limitations described herein.

Attachments will include the following:

- site location map
- scaled site map depicting boring locations
- summary tables of laboratory analytical results
- laboratory analytical reports
- boring logs
- photos of field activities
- field log detailing field work.

Following receipt of review comments, the report will be revised, if necessary. Final reports will be submitted in hard copy form and in electronic form.

7.0 SCHEDULE

Services will be initiated upon approval of this PSAP and authorization to proceed by the City of Gering. Terracon has tentatively planned to mobilize to the site within approximately two-working weeks of NDEQ approval of this PSAP. If situations/conditions are discovered that might cause additional delays, the City of Gering will be notified. A copy of the tentative schedule has been provided in Appendix D.

8.0 HEALTH AND SAFETY

Terracon has a 100% commitment to the safety of all its employees. As such, and in accordance with our *Incident and Injury Free®* safety culture, Terracon will develop a safety plan to be used by our personnel during field services. Prior to commencement of on-site activities, Terracon will hold a meeting to review health and safety needs for this specific project. At this time, we anticipate performing fieldwork in a USEPA Level D work uniform consisting of hard hats, safety glasses, protective gloves, and steel-toed boots. It may become necessary to upgrade this level of protection, at additional cost, while sampling activities are being conducted in the event that petroleum or chemical constituents are encountered in soils or groundwater that present an increased risk for personal exposure. A copy of the Health and Safety Plan has been provided in Appendix E.

Project field personnel have completed EPA/OSHA mandatory 40-hour training and subsequent annual eight-hour site supervisor and refresher courses for work around hazardous materials in accordance with 29 CFR 1910.120.

9.0 KEY UNDERSTANDINGS

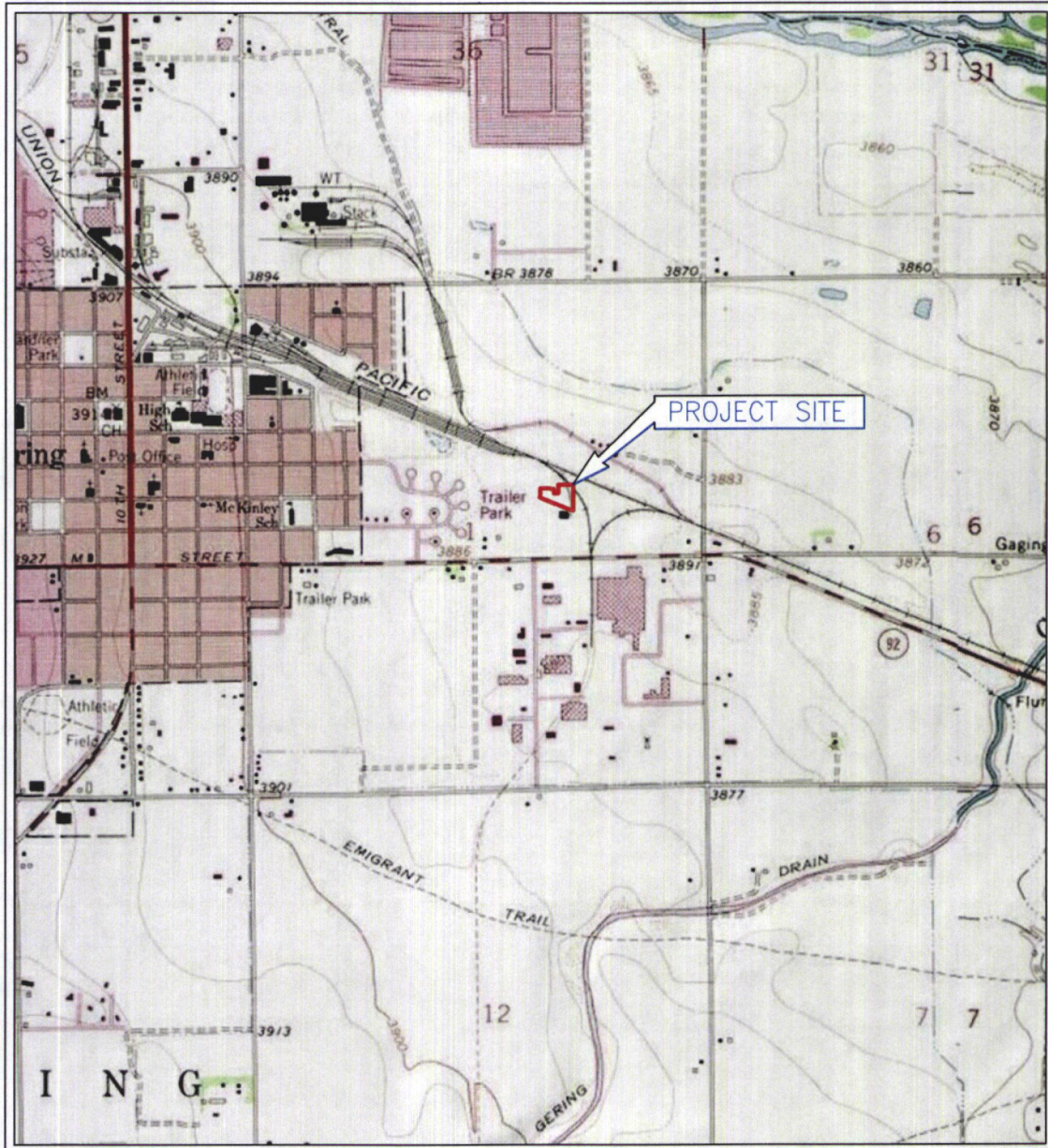
- Terracon will require access during normal business hours.
- Terracon does not warrant the work of regulatory agencies or other third parties supplying information used in the compilation of the report.
- Services will be initiated upon approval of this work plan and authorization to proceed by the client. The draft report will be submitted approximately two weeks after receipt of the results from the laboratory.

10.0 GENERAL COMMENTS

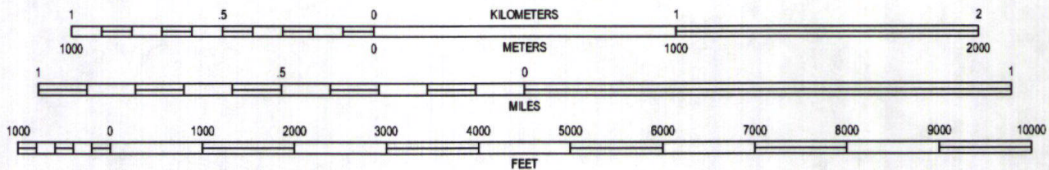
This PSAP was prepared in accordance with generally accepted geo-environmental engineering practices. No warranties, either express or implied, are made or intended.

APPENDIX A

UNITED STATES — DEPARTMENT OF THE INTERIOR — GEOLOGICAL SURVEY



SCALE 1:24 000



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

SCOTTSBLUFF SOUTH, NEBRASKA
QUADRANGLE
1976
7.5 MINUTE SERIES (TOPOGRAPHIC)



Project Mgr	MRH
Drawn By	PAI
Checked By	MRH
Approved By	MEH
Project No.	05159093
Scale	AS SHOWN
File No.	05159093C02
Date	8/31/16

Terracon
Consulting Engineers and Scientists
15080 A CIRCLE OMAHA, NE 68144
PH. (402) 330-2202 FAX. (402) 330-7606

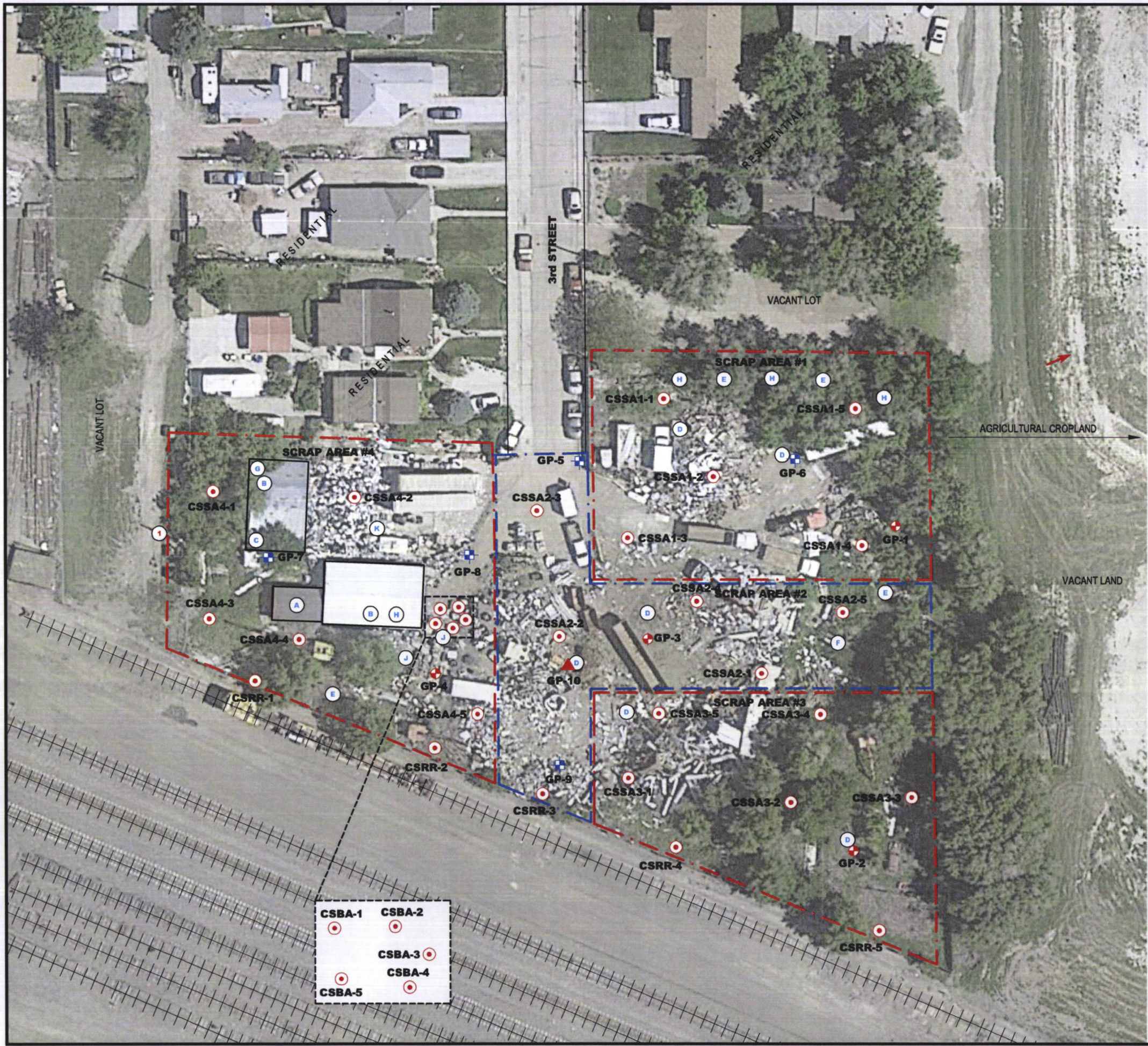
TOPOGRAPHIC / LOCATION MAP

B & T METALS
1855 3rd STREET

GERING

NEBRASKA

EXHIBIT
1



GENERAL LEGEND

- 1 POLE-MOUNTED TRANSFORMER
- A OFFICE
- B SHOP BUILDING
- C FRENCH DRAIN
- D STAINED SOIL
- E 55-GALLON DRUMS
- F HAND PUMP
- G 55-GALLON DRUM WHITE TRAFFIC PAINT
- H TIRES
- J BATTERY RECYCLING CONCRETE PAD
- K FORMER BUILDING LOCATION (BURNED DOWN ~12 YEARS PRIOR)
- - - APPROXIMATE SITE BOUNDARY
- - - APPROXIMATE BOUNDARY FOR CITY OF GERING PROPERTY
- + + + RAILROAD TRACKS
- PRESUMED GROUNDWATER FLOW DIRECTION

SAMPLING LEGEND

- GP-2 TEMPORARY WELL GEOPROBE LOCATION SOIL & GROUNDWATER
- GP-6 GEOPROBE LOCATION SOIL & GROUNDWATER
- GP-10 GEOPROBE LOCATION SOIL ONLY
- CSSA1 COMPOSITE SAMPLES SCRAP AREA #1
- CSSA2 COMPOSITE SAMPLES SCRAP AREA #2
- CSSA3 COMPOSITE SAMPLES SCRAP AREA #3
- CSSA4 COMPOSITE SAMPLES SCRAP AREA #4
- CSBA COMPOSITE SAMPLES BATTERY STORAGE AREA
- CSRR COMPOSITE SAMPLES RAILROAD TRACKS

IMAGE SOURCE: GOOGLE EARTH PRO, 2014

PROPOSED SAMPLING LOCATION DIAGRAM

B & T METALS
1855 3rd STREET

NEBRASKA

GERING

Terracon
Consulting Engineers and Scientists

15080 A CIRCLE
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OMAHA, NE 68144
FAX. (402) 330-7606

REV. DATE BY DESCRIPTION

APPENDIX B

TABLE 1
SAMPLING AND ANALYSIS MATRIX SUMMARY
Property Specific Sampling and Analysis Plan, Revision No. 2

B&T Metals
1855 3rd Street
Gering, Nebraska
Terracon Project No. 05159093

Sample ID	Location	Purpose	No. of Samples	Medium	Depth	Analyses	Laboratory Containers/Volumes	Holding Time Requirements	Analytical Methods
Boring GP-1 through GP-9	See Exhibit 2, Appendix A	Assess subsurface soil and groundwater for RECs 1 through 3	1 per boring	Soil	0-1 or 1-2 ft bgs 2-4 ft (VOCs)	VOCs PAHs PCBs 8 RCRA Metals	4 ounce glass jar with a Teflon lined cap per each parameter group	14 Days (VOCs) 14 days (PAH and PCB extraction) 180 Days (metals, except mercury) 28 Days (mercury)	8260C LL 8270D SIM LL 8082A 7010 7471B 6010C
			1 per boring	Groundwater	Within 5 ft below observed water table	VOCs PAHs PCBs 8 RCRA Metals pH (field)	Three 40-ml glass vials with Teflon-lined septum caps Hydrochloric acid (HCL) preservative Two 1,000-ml amber glass bottle with Teflon-lined caps (PAHs and PCBs) One 1,000-ml glass or polyethylene bottle, HNO ₃ preserved container (8-RCRA Metals)	14 Days (VOCs) 7 Days (PAH and PCB extraction) 180 Days (metals, except mercury) 28 Days (mercury) In field (pH)	8260C 8270D SIM LL 8082A 7470A 6020A
Boring GP-10	See Exhibit 2, Appendix A	Assess subsurface vadose soil for RECs 1 through 3	1 per boring	Soil	0-1 or 1-2 ft bgs (PAHs, PCBs, 8 RCRA Metals) 2-4 ft (VOCs)	VOCs PAHs PCBs 8 RCRA Metals	4 ounce glass jar with a Teflon lined cap per each parameter group	14 Days (VOCs) 14 days (PAH and PCB extraction) 180 Days (metals, except mercury) 28 Days (mercury)	8260C LL 8270D SIM LL 8082A 7010 7471B 6010C

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1855 3rd Street
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Sample ID	Location	Purpose	No. of Samples	Medium	Depth	Analyses	Laboratory Containers/Volumes	Holding Time Requirements	Analytical Methods
Scrap Area #1 CSSA1-1 CSSA1-2 CSSA1-3 CSSA1-4 CSSA1-5	See Exhibit 2, Appendix A	Assess shallow surface soil RECs 1 through 3	2	Soil	0-1 inches bgs 1-12 inches bgs	PCBs 8 RCRA Metals	4 ounce glass jar with a Teflon lined cap per each parameter group	14 days (PCB extraction) 180 Days (metals, except mercury)	8082A 7010 7471B 6010C
Scrap Area #2 CSSA2-1 CSSA2-2 CSSA2-3 CSSA2-4 CSSA2-5	See Exhibit 2, Appendix A	Assess shallow surface soil RECs 1 through 3	2	Soil	0-1 inches bgs 1-12 inches bgs	PCBs 8 RCRA Metals	4 ounce glass jar with a Teflon lined cap per each parameter group	14 days (PCB extraction) 180 Days (metals, except mercury)	8082A 7010 7471B 6010C

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1855 3rd Street
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Sample ID	Location	Purpose	No. of Samples	Medium	Depth	Analyses	Laboratory Containers/Volumes	Holding Time Requirements	Analytical Methods
Scrap Area #3 CSSA3-1 CSSA3-2 CSSA3-3 CSSA3-4 CSSA3-5	See Exhibit 2, Appendix A	Assess shallow surface soil RECs 1 through 3	2	Soil	0-1 inches bgs 1-12 inches bgs	PCBs 8 RCRA Metals	4 ounce glass jar with a Teflon lined cap per each parameter group	14 days (PCB extraction) 180 Days (metals, except mercury)	8082A 7010 7471B 6010C
Scrap Area #4 CSSA4-1 CSSA4-2 CSSA4-3 CSSA4-4 CSSA4-5	See Exhibit 2, Appendix A	Assess shallow surface soil RECs 1 through 3	2	Soil	0-1 inches bgs 1-12 inches bgs	PCBs 8 RCRA Metals	4 ounce glass jar with a Teflon lined cap per each parameter group	14 days (PCB extraction) 180 Days (metals, except mercury)	8082A 7010 7471B 6010C

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B&T Metals
1855 3rd Street
Gering, Nebraska
Terracon Project No. 05159093

Sample ID	Location	Purpose	No. of Samples	Medium	Depth	Analyses	Laboratory Containers/Volumes	Holding Time Requirements	Analytical Methods
Battery Storage Area CSBA-1 CSBA-2 CSSB-3 CSSB-4 CSSB-5	See Exhibit 2, Appendix A	Assess shallow surface soil RECs 1 through 3	2	Soil	0-1 inches bgs 1-12 inches bgs	PCBs 8 RCRA Metals	4 ounce glass jar with a Teflon lined cap per each parameter group	14 days (PCB extraction) 180 Days (metals, except mercury)	8082A 7010 7471B 6010C
Railroad Tracks CSRR-1 CSRR-2 CSRR-3 CSRR-4 CSRR-5	See Exhibit 2, Appendix A	Assess shallow surface soil RECs 1 through 3	2	Soil	0-1 inches bgs 1-12 inches bgs	PCBs 8 RCRA Metals	4 ounce glass jar with a Teflon lined cap per each parameter group	14 days (PCB extraction) 180 Days (metals, except mercury)	8082A 7010 7471B 6010C

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Property Specific Sampling and Analysis Plan, Revision No. 2

B&T Metals
1855 3rd Street
Gering, Nebraska
Terracon Project No. 05159093

Sample ID	Location	Purpose	No. of Samples	Medium	Depth	Analyses	Laboratory Containers/Volumes	Holding Time Requirements	Analytical Methods
Blind duplicates	Not applicable	QC	0	Soil	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
			One duplicate for every group of 20 or fewer samples	Groundwater	Consistent with respective duplicate samples	VOCs PAHs PCBs 8 RCRA Metals	Three 40-ml glass vials with Teflon-lined septum caps Hydrochloric acid (HCL) preservative Two 1,000-ml amber glass bottle with Teflon-lined caps (PAHs and PCBs) One 1,000-ml glass or polyethylene bottle, HNO ₃ preserved container (8-RCRA Metals)	14 Days (VOCs) 7 Days (PAH and PCB extraction) 180 Days (metals, except mercury) 28 Days (mercury)	8260C 8270D SIM LL 8082A 7470A 6020A
Trip blanks	Not applicable	QC	0	Soil	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
			1	Groundwater	Not applicable	VOCs	Three 40 ml glass Teflon lined septum vials, HCL preserved	14 Days	8260C

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Sample ID	Location	Purpose	No. of Samples	Medium	Depth	Analyses	Laboratory Containers/Volumes	Holding Time Requirements	Analytical Methods
Field blanks	Not Applicable	QC	0	Soil	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
			1	Groundwater	Not applicable	VOCs PAHs PCBs 8 RCRA Metals	Three 40-ml glass vials with Teflon-lined septum caps Hydrochloric acid (HCL) preservative Two 1,000-ml amber glass bottle with Teflon-lined caps (PAHs and PCBs) One 1,000-ml glass or polyethylene bottle, HNO ₃ preserved container (8-RCRA Metals)	14 Days (VOCs) 7 Days (PAH and PCB extraction) 180 Days (metals, except mercury) 28 Days (mercury)	8260C 8270D SIM LL 8082A 7470A 6020A
Equipment rinsate blanks	Not Applicable	QC	1	Water	Not Applicable	VOCs PAHs PCBs 8 RCRA Metals	Three 40-ml glass vials with Teflon-lined septum caps Hydrochloric acid (HCL) preservative Two 1,000-ml amber glass bottle with Teflon-lined caps (PAHs and PCBs) One 1,000-ml glass or polyethylene bottle, HNO ₃ preserved container (8-RCRA Metals)	14 Days (VOCs) 7 Days (PAH and PCB extraction) 180 Days (metals, except mercury) 28 Days (mercury)	8260C 8270D SIM LL 8082A 7470A 6020A

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Terracon Project No. 05159093

Sample ID	Location	Purpose	No. of Samples	Medium	Depth	Analyses	Laboratory Containers/Volumes	Holding Time Requirements	Analytical Methods
Decontamination Fluids	Not Applicable	TCLP Waste characterization	0 or 1 Contingent upon analytical results or field indications of gross contamination in soil/groundwater	water	Not Applicable	VOCs 8 RCRA Metals	Three 40-ml glass vials with Teflon-lined septum caps HCL preservative One 1,000-ml glass or polyethylene bottle, HNO ₃ preserved container (8-RCRA Metals)	14 Days 180 Days (metals, except mercury) 28 Days (mercury)	TCLP Extraction + 8260C 7470A 6020A
Core soil cuttings	Not Applicable	TCLP Waste characterization	0 or 1 Contingent upon analytical results or field indications of gross contamination in soil/groundwater	water	Not Applicable	VOCs 8 RCRA Metals	4 ounce glass jar with a Teflon lined cap per each parameter group	14 Days (VOCs) 180 Days (metals, except mercury) 28 Days (mercury)	TCLP Extraction + 8260C 7010 7471B 6010C

- Notes : 1) GP-1 through GP-4 will have temporary well casings installed to allow for water level measurements. Installation of temporary casings are contingent upon borehole not collapsing upon tool removal.
- 2) VOCs = volatile organic compounds
- 3) PAHs = Poly Aromatic Hydrocarbons
- 4) 8 RCRA Metals = Arsenic, Barium, Cadmium, Chromium (total), Lead, Mercury, Selenium, Silver. Dissolved metals samples not to be preserved before field filtration.
- 5) PCBs = Polychlorinated Biphenyls

TABLE 2
LABORATORY PROVIDED ANALYTE REPORTING LIMITS AND METHOD DETECTION LIMITS
Property-Specific Sampling and Analysis Plan, Revision No. 0

M and T Metals
Gering, Nebraska
Terracon Project No. 05159093

Soil: Volatile Organic Compounds - VOCs (8260C- Low Level)			
Analyte Description	CAS Number	Reference RL - Limit (mg/Kg)	Reference MDL - Limit (mg/Kg)
Acetone	67-64-1	0.0500	0.00685
Benzene	71-43-2	0.00500	0.000430
Bromobenzene	108-86-1	0.00500	0.000200
Bromochloromethane	74-97-5	0.00500	0.000240
Bromodichloromethane	75-27-4	0.00500	0.000390
Bromoform	75-25-2	0.0100	0.000220
Bromomethane	74-83-9	0.0200	0.000310
2-Butanone (MEK)	78-93-3	0.0500	0.00646
n-Butylbenzene	104-51-8	0.00500	0.000230
sec-Butylbenzene	135-98-8	0.00500	0.000140
tert-Butylbenzene	98-06-6	0.00500	0.000140
Carbon disulfide	75-15-0	0.00500	0.000350
Carbon tetrachloride	56-23-5	0.00500	0.000160
Chlorobenzene	108-90-7	0.00500	0.000300
Chlorodibromomethane	124-48-1	0.00500	0.000220
Chloroethane	75-00-3	0.0200	0.000260
Chloroform	67-66-3	0.00500	0.000390
Chloromethane	74-87-3	0.0200	0.000190
2-Chlorotoluene	95-49-8	0.00500	0.000230
4-Chlorotoluene	106-43-4	0.00500	0.000290
1,2-Dibromo-3-Chloropropane	96-12-8	0.0500	0.00339
1,2-Dibromoethane (EDB)	106-93-4	0.0500	0.000190
Dibromomethane	74-95-3	0.00500	0.000170
1,2-Dichlorobenzene	95-50-1	0.00500	0.000330
1,3-Dichlorobenzene	541-73-1	0.00500	0.000280
1,4-Dichlorobenzene	106-46-7	0.00500	0.000310
Dichlorodifluoromethane	75-71-8	0.0150	0.000250
1,1-Dichloroethane	75-34-3	0.00500	0.000270
1,2-Dichloroethane	107-06-2	0.00500	0.000310
1,1-Dichloroethene	75-35-4	0.00500	0.000190
cis-1,2-Dichloroethene	156-59-2	0.00500	0.000270
trans-1,2-Dichloroethene	156-60-5	0.00500	0.000190
1,2-Dichloropropane	78-87-5	0.00500	0.000430
1,3-Dichloropropane	142-28-9	0.00500	0.000130
2,2-Dichloropropane	594-20-7	0.0200	0.000230
1,1-Dichloropropene	563-58-6	0.00500	0.000210
cis-1,3-Dichloropropene	10061-01-5	0.00500	0.000470
trans-1,3-Dichloropropene	10061-02-6	0.00500	0.000180
Ethylbenzene	100-41-4	0.00500	0.000360
Hexachlorobutadiene	87-68-3	0.0250	0.000390
Hexane	110-54-3	0.0250	0.000280
Isopropylbenzene	98-82-8	0.00500	0.000100
p-Isopropyltoluene	99-87-6	0.00500	0.000160

TABLE 2
LABORATORY PROVIDED ANALYTE REPORTING LIMITS AND METHOD DETECTION LIMITS
Property-Specific Sampling and Analysis Plan, Revision No. 0

M and T Metals
Gering, Nebraska
Terracon Project No. 05159093

Soil: Volatile Organic Compounds - VOCs (8260C Low Level) cont.			
Analyte Description	CAS Number	Reference RL - Limit (mg/Kg)	Reference MDL - Limit (mg/Kg)
Methylene Chloride	75-09-2	0.0500	0.000320
Methyl tert-butyl ether	1634-04-4	0.00500	0.000220
Naphthalene	91-20-3	0.0250	0.000140
N-Propylbenzene	103-65-1	0.00500	0.000160
Styrene	100-42-5	0.00500	0.000110
1,1,1,2-Tetrachloroethane	630-20-6	0.00500	0.000280
1,1,2,2-Tetrachloroethane	79-34-5	0.00500	0.000190
Tetrachloroethene	127-18-4	0.00500	0.000200
Toluene	108-88-3	0.00500	0.000350
1,2,3-Trichlorobenzene	87-61-6	0.0250	0.00358
1,2,4-Trichlorobenzene	120-82-1	0.0250	0.000870
1,1,1-Trichloroethane	71-55-6	0.00500	0.000220
1,1,2-Trichloroethane	79-00-5	0.00500	0.000320
Trichloroethene	79-01-6	0.00500	0.000200
Trichlorofluoromethane	75-69-4	0.0200	0.000220
1,2,3-Trichloropropane	96-18-4	0.00500	0.000480
1,2,4-Trimethylbenzene	95-63-6	0.00500	0.000640
1,3,5-Trimethylbenzene	108-67-8	0.00500	0.000160
Vinyl chloride	75-01-4	0.0150	0.000290
Xylenes, Total	1330-20-7	0.0150	0.00101
Soil: Poly Aromatic Hydrocarbons (8270D SIM LL)			
Analyte Description	CAS Number	Reference RL - Limit (mg/Kg)	Reference MDL - Limit (mg/Kg)
Acenaphthene	83-32-9	0.0100	0.00317
Acenaphthylene	208-96-8	0.0100	0.00199
Anthracene	120-12-7	0.0100	0.00305
Benzo[a]anthracene	56-55-3	0.0100	0.00218
Benzo[a]pyrene	50-32-8	0.0100	0.00133
Benzo[b]fluoranthene	205-99-2	0.0100	0.00145
Benzo[g,h,i]perylene	191-24-2	0.0100	0.00147
Benzo[k]fluoranthene	207-08-9	0.0100	0.00126
Chrysene	218-01-9	0.0100	0.00134
Dibenz(a,h)anthracene	53-70-3	0.0100	0.00138
Fluoranthene	206-44-0	0.0100	0.00294
Fluorene	86-73-7	0.0100	0.00379
Indeno[1,2,3-cd]pyrene	193-39-5	0.0100	0.00144
2-Methylnaphthalene	91-57-6	0.0100	0.00346
Naphthalene	91-20-3	0.0100	0.00434
Phenanthrene	85-01-8	0.0100	0.00262
Pyrene	129-00-0	0.0100	0.00265

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Property-Specific Sampling and Analysis Plan, Revision No. 0

M and T Metals
Gering, Nebraska
Terracon Project No. 05159093

Soil: RCRA Metals; Arsenic by 7010, Mercury by 7471B others by 6010			
Analyte Description	CAS Number	Reference RL - Limit (mg/Kg)	Reference MDL - Limit (mg/Kg)
Arsenic	7440-38-2	0.200	0.0370
Barium	7440-39-3	0.500	0.295
Cadmium	7440-43-9	1.00	0.249
Chromium	7440-47-3	1.00	0.280
Lead	7439-92-1	5.00	0.990
Selenium	7782-49-2	7.50	3.00
Silver	7440-22-4	1.00	0.311
Mercury	7439-97-6	0.0200	0.00682
Soil: PCBs by 8082A			
Analyte Description	CAS Number	Reference RL - Limit (mg/Kg)	Reference MDL - Limit (mg/Kg)
PCB-1016	12674-11-2	0.0500	0.00130
PCB-1221	11104-28-2	0.0500	0.0134
PCB-1232	11141-16-5	0.0500	0.00500
PCB-1242	53469-21-9	0.0500	0.00540
PCB-1248	12672-29-6	0.0500	0.00340
PCB-1254	11097-69-1	0.0500	0.00320
PCB-1260	11096-82-5	0.0500	0.00170
PCB-1268	11100-14-4	0.0500	0.000700

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M and T Metals
Gering, Nebraska
Terracon Project No. 05159093

Groundwater: Volatile Organic Compounds - VOCs (8260C)			
Analyte Description	CAS Number	Reference RL - Limit (mg/L)	Reference MDL - Limit (mg/L)
Acetone	67-64-1	0.0100	0.00179
Benzene	71-43-2	0.000500	0.000110
Bromobenzene	108-86-1	0.00100	0.000210
Bromochloromethane	74-97-5	0.00500	0.000120
Bromodichloromethane	75-27-4	0.00100	0.000120
Bromoform	75-25-2	0.00500	0.000140
Bromomethane	74-83-9	0.00400	0.000220
2-Butanone (MEK)	78-93-3	0.0100	0.000470
n-Butylbenzene	104-51-8	0.00100	0.000370
sec-Butylbenzene	135-98-8	0.00100	0.000200
tert-Butylbenzene	98-06-6	0.00100	0.000120
Carbon disulfide	75-15-0	0.00100	0.000150
Carbon tetrachloride	56-23-5	0.00200	0.000240
Chlorobenzene	108-90-7	0.00100	0.000190
Chlorodibromomethane	124-48-1	0.00500	0.000200
Chloroethane	75-00-3	0.00400	0.000150
Chloroform	67-66-3	0.00100	0.000280
Chloromethane	74-87-3	0.00300	0.000310
2-Chlorotoluene	95-49-8	0.00100	0.000120
4-Chlorotoluene	106-43-4	0.00100	0.000130
1,2-Dibromo-3-Chloropropane	96-12-8	0.0100	0.000500
1,2-Dibromoethane (EDB)	106-93-4	0.0100	0.000130
Dibromomethane	74-95-3	0.00100	0.000180
1,2-Dichlorobenzene	95-50-1	0.00100	0.000140
1,3-Dichlorobenzene	541-73-1	0.00100	0.000170
1,4-Dichlorobenzene	106-46-7	0.00100	0.000200
Dichlorodifluoromethane	75-71-8	0.00300	0.000200
1,1-Dichloroethane	75-34-3	0.00100	0.000210
1,2-Dichloroethane	107-06-2	0.00100	0.000180
1,1-Dichloroethene	75-35-4	0.00200	0.000150
cis-1,2-Dichloroethene	156-59-2	0.00100	0.000130
trans-1,2-Dichloroethene	156-60-5	0.00100	0.000210
1,2-Dichloropropane	78-87-5	0.00100	0.000870
1,3-Dichloropropane	142-28-9	0.00100	0.000160
2,2-Dichloropropane	594-20-7	0.00400	0.000180
1,1-Dichloropropene	563-58-6	0.00100	0.000150
cis-1,3-Dichloropropene	10061-01-5	0.00500	0.000150
trans-1,3-Dichloropropene	10061-02-6	0.00500	0.000220
Ethylbenzene	100-41-4	0.00100	0.000210
Hexachlorobutadiene	87-68-3	0.00500	0.000200
Hexane	110-54-3	0.00100	0.000200
Isopropylbenzene	98-82-8	0.00100	0.000190

TABLE 2
LABORATORY PROVIDED ANALYTE REPORTING LIMITS AND METHOD DETECTION LIMITS
Property-Specific Sampling and Analysis Plan, Revision No. 0

M and T Metals
Gering, Nebraska
Terracon Project No. 05159093

Groundwater: Volatile Organic Compounds - VOCs (8260C) cont.			
Analyte Description	CAS Number	Reference RL - Limit (mg/L)	Reference MDL - Limit (mg/L)
p-Isopropyltoluene	99-87-6	0.00100	0.000140
Methylene Chloride	75-09-2	0.00500	0.000170
Methyl tert-butyl ether	1634-04-4	0.00100	0.000160
Naphthalene	91-20-3	0.00500	0.000370
N-Propylbenzene	103-65-1	0.00100	0.000100
Styrene	100-42-5	0.00100	0.000100
1,1,1,2-Tetrachloroethane	630-20-6	0.00100	0.000210
1,1,2,2-Tetrachloroethane	79-34-5	0.00100	0.000100
Tetrachloroethene	127-18-4	0.00100	0.000180
Toluene	108-88-3	0.00100	0.000150
1,2,3-Trichlorobenzene	87-61-6	0.00500	0.000160
1,2,4-Trichlorobenzene	120-82-1	0.00500	0.000160
1,1,1-Trichloroethane	71-55-6	0.00100	0.000120
1,1,2-Trichloroethane	79-00-5	0.00100	0.000120
Trichloroethene	79-01-6	0.00100	0.000190
Trichlorofluoromethane	75-69-4	0.00400	0.000170
1,2,3-Trichloropropane	96-18-4	0.00100	0.000190
1,2,4-Trimethylbenzene	95-63-6	0.00100	0.000200
1,3,5-Trimethylbenzene	108-67-8	0.00100	0.000200
Vinyl chloride	75-01-4	0.00100	0.000100
Xylenes, Total	1330-20-7	0.00300	0.000130
Groundwater: Poly Aromatic Hydrocarbons (8270D SIM LL)			
Analyte Description	CAS Number	Reference RL - Limit (mg/L)	Reference MDL - Limit (mg/L)
Acenaphthene	83-32-9	0.000100	0.0000350
Acenaphthylene	208-96-8	0.000100	0.0000360
Anthracene	120-12-7	0.000100	0.0000200
Benzo[a]anthracene	56-55-3	0.000100	0.0000190
Benzo[a]pyrene	50-32-8	0.000100	0.0000190
Benzo[b]fluoranthene	205-99-2	0.000100	0.0000200
Benzo[g,h,i]perylene	191-24-2	0.000100	0.0000130
Benzo[k]fluoranthene	207-08-9	0.000100	0.0000150
Chrysene	218-01-9	0.000100	0.0000160
Dibenz(a,h)anthracene	53-70-3	0.000100	0.0000130
Fluoranthene	206-44-0	0.000100	0.0000160
Fluorene	86-73-7	0.000100	0.0000230
Indeno[1,2,3-cd]pyrene	193-39-5	0.000100	0.0000170
2-Methylnaphthalene	91-57-6	0.000500	0.0000370
Naphthalene	91-20-3	0.000500	0.0000380
Phenanthrene	85-01-8	0.000100	0.0000260
Pyrene	129-00-0	0.000100	0.0000140

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Property-Specific Sampling and Analysis Plan, Revision No. 0

M and T Metals
Gering, Nebraska
Terracon Project No. 05159093

Groundwater: RCRA Metals; Mercury by 7470B others by 6020A			
Analyte Description	CAS Number	Reference RL - Limit (mg/L)	Reference MDL - Limit (mg/L)
Arsenic	7440-38-2	0.00200	0.000672
Barium	7440-39-3	0.00200	0.000844
Cadmium	7440-43-9	0.000500	0.0000351
Chromium	7440-47-3	0.00500	0.000355
Lead	7439-92-1	0.000500	0.000211
Selenium	7782-49-2	0.00500	0.000630
Silver	7440-22-4	0.00100	0.000153
Mercury	7439-97-6	0.000200	0.000142
Soil: PCBs by 8082A			
Analyte Description	CAS Number	Reference RL - Limit (mg/Kg)	Reference MDL - Limit (mg/Kg)
PCB-1016	12674-11-2	0.000800	0.0000434
PCB-1221	11104-28-2	0.000800	0.000160
PCB-1232	11141-16-5	0.000800	0.000110
PCB-1242	53469-21-9	0.000800	0.000130
PCB-1248	12672-29-6	0.000800	0.000110
PCB-1254	11097-69-1	0.000800	0.0000920
PCB-1260	11096-82-5	0.000800	0.0000440
PCB-1268	11100-14-4	0.000800	0.0000190
Polychlorinated biphenyls, Total	1336-36-3	0.000800	0.000160

APPENDIX C

THE CITY OF GERING
SITE-SPECIFIC QUALITY ASSURANCE PROJECT PLAN (QAPP) ADDENDUM
SUPERFUND SITE ASSESSMENT & SECTION 128(a) ASSESSMENT PROGRAMS

Note: This Addendum was modified from the NDEQ's QAPP (2009) Addendum.

This Addendum supplements the Generic QAPP for Superfund Site Assessment and Section 128(a) Assessment activities (Revised June 2009) and includes documentation only for the specific site/project indicated. The Addendum is only necessary for projects with sampling requirements needed to accomplish site assessment activities.

1. SITE NAME AND LOCATION:

Name: B&T Metals

Address or Other Location Identifier: 1855 3rd Street

City: Gering **County:** Scotts Bluff **State:** Nebraska **ZIP:** 68341

Site Point of Contact (POC) Name: Mr. Paul Snarr **POC Email:** psnarr@gering.org

Telephone: 308-436-5096 **FAX:**

Directions to Site: West Entrance off of N. 7th Street **Map(s) attached:** Yes

2. PROJECT MANAGEMENT AND PROJECT INFORMATION:

Distribution List (Check as appropriate and identify):

- | | |
|---|--|
| <input checked="" type="checkbox"/> Brownfield Project Manager: Paul Snarr and TCD | <input checked="" type="checkbox"/> NDEQ Project Manager: Sarah Sweeney |
| <input checked="" type="checkbox"/> Contractor Project Manager: Clay Muirhead | <input checked="" type="checkbox"/> Contractor QA Officer: Dave Koch |
| <input checked="" type="checkbox"/> Contractor Assessment Coordinator: Megan Hughes | <input checked="" type="checkbox"/> EPA Brownfields Grant Manager: Jennifer Morris |

2.1 Project and Task Organization (Check as appropriate and identify):

- | | |
|--|---|
| <input checked="" type="checkbox"/> Brownfield Project Manager: Paul Snarr and TCD | <input checked="" type="checkbox"/> Contractor Assessment Coordinator: Megan Hughes |
| <input checked="" type="checkbox"/> Contractor Project Manager: Clay Muirhead | <input checked="" type="checkbox"/> Field Coordinator: TBD |
| <input checked="" type="checkbox"/> Site Safety Officer: TBD | |
| <input checked="" type="checkbox"/> Senior Technical Reviewer: Mike Hagemeister | |
| <input checked="" type="checkbox"/> NDEQ Project Manager: Sarah Sweeney | |
| <input checked="" type="checkbox"/> Contractor QA Officer: Dave Koch | |
| <input checked="" type="checkbox"/> EPA Brownfields Grant Manager: Jennifer Morris | |

2.2 Problem Definition and Background: (Check to indicate items are attached)

- | | |
|---|---|
| <input checked="" type="checkbox"/> Discussion of site-specific conditions: Phase I Environmental Site Assessment Report, dated November 16, 2015 | <input type="checkbox"/> Table indicating maximum concentrations detected |
| <input checked="" type="checkbox"/> Maps and Figures | <input type="checkbox"/> Table indicating concentrations of concern |
| <input checked="" type="checkbox"/> Table indicating number and types of field and QC samples to be collected | |
| <input type="checkbox"/> Discussion of laboratory deviations from latest version of EPA SOP 2440.5 (if applicable) | |

2.3 Project and Task Description/Type(s) (Check as appropriate):

- | | |
|--|---|
| <input type="checkbox"/> Pre-CERCLIS Screening Assessment (PCSA) | <input type="checkbox"/> Preliminary Assessment (PA) |
| <input type="checkbox"/> Combined Preliminary Assessment/Site Inspection (PA/SI) | <input type="checkbox"/> Abbreviated Preliminary Assessment (APA) |
| <input type="checkbox"/> Focused Site Inspection (FSI) | <input type="checkbox"/> Site Inspection (SI) |
| <input type="checkbox"/> Expanded Site Inspection (ESI) | <input type="checkbox"/> Site Re-Assessment (SI-2) |
| <input type="checkbox"/> Section 128(a) Assessment - Phase I Investigation | <input type="checkbox"/> Section 128(a) Assessment - Phase II Investigation |
| <input checked="" type="checkbox"/> Other (Specify and attach description): Section 104(k) Phase II Assessment | |

2.4 Quality Objectives and Criteria for Measurement Data: (Check appropriate boxes)

- | | | |
|---------------------|---|---|
| Accuracy: | <input checked="" type="checkbox"/> According to Generic Site Assessment QAPP | <input type="checkbox"/> Identified in attached table |
| Precision | <input checked="" type="checkbox"/> According to Generic Site Assessment QAPP | <input type="checkbox"/> Identified in attached table |
| Representativeness: | <input checked="" type="checkbox"/> According to Generic Site Assessment QAPP | <input type="checkbox"/> Identified in attached table |

NDEQ SITE-SPECIFIC QAPP ADDENDUM FORM (Modified)

Completeness:* ☒ According to Generic Site Assessment QAPP ☐ Identified in attached table
 Comparability: ☒ According to Generic Site Assessment QAPP ☐ Identified in attached table

*A completeness goal of 100 % has been established for this project. However, a site disposition may still be possible from the remaining valid data.

Critical sample locations are included in (check one):

☐ Attached Table ☒ Attached Map ☐ Other (Describe):

2.5 Special Training/Certification Requirements: (Check appropriate boxes)

☒ OSHA 40-hour (HAZWOPER) ☒ Direct Push Probe/Geoprobe Operator
☐ Mobile GC Field Analyst ☐ In-Field XRF Operator
☐ Water Well Monitoring Supervisor and/or Technician ☐ Water Well Drilling Contractor and/or Drilling Supervisor
☐ Pump Installation Contractor and/or Supervisor ☐ Drill Rig Operator
☐ Other (specify): Asbestos Certified Technician

2.6 Documentation And Records Proposed For Project: (Check appropriate boxes):

☒ Health and Safety Plan ☒ Log Book/Field Notes ☐ Drilling permit(s)
☐ Daily Tailgate Meeting Forms ☒ Field Sheets ☒ GPS Coordinates
☒ Site Maps/Figures ☐ Chain-of-Custody ☐ Licensed surveyor site map
☒ Site Sampling Map (attached) ☒ Site Photographs ☐ Calibration Records
☐ Property Access Agreement ☐ Site Videotapes ☐ ASTM Phase I ESA Requirements
☒ Property Ownership Records ☐ Utility Clearance Forms ☒ ASTM Phase II ESA Requirements
☐ Sample documentation to follow latest version of EPA Region 7 SOP 2420.5
☐ Other Documentation (Specify):
☒ Reports, Deliverables, or Submittals Required (Specify): Report to be prepared and issued following field work and receipt of analytical results.

3. DATA GENERATION AND AQUISITION:

3.1 Sampling Process Design

A. General Sampling Approach (Check appropriate boxes):

☐ Probability Sampling ☒ Judgmental Sampling

Sampling Method:

☐ Simple Random Sampling ☐ Stratified Sampling ☒ Systematic/Grid Sampling
☐ Ranked Set Sampling ☐ Adaptive Cluster Sampling ☐ Composite Sampling
☒ Other: Per "PSAP"

B. Screening/Definitive Sampling (Check appropriate boxes):

☐ Screening without Definitive Confirmation
☐ Screening with Definitive Confirmation.
☒ Definitive Sampling – For Soil and Groundwater sampling

C. Biased/Judgmental Sampling:

☐ No (If No, explain the alternate sampling rationale and approach):
☒ Yes (If Yes, the following applies):

EXPLAIN below: (Example Included)

The proposed sampling scheme will be a combination of judgmental and grid sampling in accordance with the PSAP (see Exhibit 2 of Appendix A). Judgmental sampling is the subjective (biased) selection of sampling locations based on available information, visual inspection, and professional judgment of the sampler. The site will also be gridded in an effort to assess the general soil and groundwater conditions across the site where various metal recycling operations occurred. Soil and groundwater sample locations

NDEQ SITE-SPECIFIC QAPP ADDENDUM FORM (Modified)

will be selected to detect hazardous substances or pollutants or contaminants near suspected sources and migration from them. Sample locations depicted in the attached site sketch are approximate and subject to change based on field conditions, data and safety factors. The number of samples is approximate and subject to change based on site conditions and suspected source areas, background, size of impacted areas, study objectives, scope of work and cost constraints. Subsurface soil depths are selected to detect suspected subsurface releases and potentially identify source areas. Depth of direct push samples is based on suspected depth to ground water and limitations of sampling equipment for conditions at the site.

3.2 Sample Methods Requirements (Specify all to be utilized):

Matrix	Sampling Method	Std. Operating Procedures	Sampling Equipment Proposed
<input checked="" type="checkbox"/> Soil	Sampling method will be in accordance with the described standard operating procedure (see next column)	Transfer samples to lab Provided containers, ship Samples to lab for analysis Under chain of custody Procedures (see PSAP for details) (consistent with EPA SOP 4230.3B)	Macro-core sampler used in Conjunction with direct push Geoprobe equipment.
<input type="checkbox"/> Soil Gas			
<input checked="" type="checkbox"/> Groundwater	Sampling method will be in accordance with the Described standard Operating procedure (see next column)	Transfer samples to lab Provided containers, ship samples to lab under chain of Custody procedures (see PSAP for details) consistent (With EPA SOP 4230.07 and 4230.10.)	Peristaltic pump with flexible Tubing and/or small diameter Bailer and/or ridged tubing outfitted with a foot-valve
<input type="checkbox"/> Surface Water			
<input type="checkbox"/> Sediment			
<input type="checkbox"/> Waste			
<input type="checkbox"/> Leachate			
<input type="checkbox"/> Air			
<input type="checkbox"/> Other (specify below):			

3.3 Sample Handling and Custody Requirements (Check appropriate box):

☒ In accordance with Generic QAPP and SOPs ☒ Other (specify): Per PSAP

3.4 Analytical Methods Requirements (Check appropriate box):

☒ Identified in Attached Table ☐ Other (Describe):

3.5 Quality Control Requirements (Check all appropriate boxes):

☐ Not Applicable ☒ In accordance with Generic QAPP

☐ Specific requirements (state):

Field QC Samples to be collected:

<input checked="" type="checkbox"/> Duplicates	(frequency 1 per 10)	Prepared by: Field Crew	[Groundwater only]
<input checked="" type="checkbox"/> Trip Blanks	(frequency 1 per cooler)	Prepared by: Contract Laboratory	
<input checked="" type="checkbox"/> Field Blanks	(frequency 1 per 10)	Prepared by: Field Crew	[Based on groundwater samples]
<input checked="" type="checkbox"/> Equipment Rinsate Blanks	(frequency 2)	Prepared by: Field Personnel	
<input type="checkbox"/> Split Samples	(frequency)	Splits go to:	
<input type="checkbox"/> Matrix Spikes	(frequency)	Matrix and spike to be used:	
<input type="checkbox"/> Background Sample	(frequency)	Type:	
<input type="checkbox"/> Others (specify)	(frequency)		

NDEQ SITE-SPECIFIC QAPP ADDENDUM FORM (Modified)

☒ Matrix Spike/Matrix Spike Duplicate: (frequency 1 per 20) Extra sample volume to be collected: 2 extra purge vials for groundwater

3.6 Instrument/Equipment Testing, Inspection, and Maintenance Requirements (Check appropriate box):

☐ Not Applicable ☒ In accordance with Generic QAPP
☒ Specific field or laboratory equipment requirements:
Instrument: PID Testing, Inspection, or Maintenance Frequency: In accordance with manufacturer's recommendations
Instrument: Testing, Inspection, or Maintenance Frequency:
Critical Spare Parts Required:

3.7 Instrument/Equipment Calibration and Frequency (Check appropriate box):

☐ Not Applicable ☒ In accordance with Generic QAPP
☒ Specific field equipment requirements:
Instrument: PID Calibration Frequency: per manufacturers recommendations
Instrument: Calibration Frequency:

3.8 Inspection/Acceptance Criteria for Supplies and Consumables (Check appropriate box):

☐ Not Applicable ☒ In accordance with Generic QAPP
☒ Specific requirements (state):

3.9 Data Acquisition Requirements for Non-Direct Measurements (Check appropriate box):

☐ Not Applicable ☒ In accordance with Generic QAPP
☐ Specific requirements (state):

3.10 Data Management (Check appropriate box):

☒ In accordance with Generic QAPP ☐ Specific requirements (state):

4. ASSESSMENT AND OVERSIGHT:

4.1A Assessment and Response Actions (Check all appropriate boxes):

☐ Peer Review ☒ Management Review ☐ Field Audit ☐ Lab Audit
☐ Those pertaining to analytical phases of the project will be in accordance with Generic QAPP
☐ Specific requirements (state):

4.1B Corrective Action (Check appropriate box):

☒ In accordance with Generic QAPP ☐ Specific requirements (state):

4.2 Reports to Management/Assessment Reporting (Check appropriate box):

☒ In accordance with Generic QAPP
☐ In accordance with ASTM E-1527-05 Phase I Environmental Site Assessment Process
☒ In accordance with ASTM E-1903-97 (2002) Phase II Environmental Site Assessment Process
☒ Specific requirements (state): PSAP assessment report consistent with NDEQ Environmental Guidance Document – 2009

5. DATA VALIDATION AND USABILITY:

5.1 Data Review, Verification, and Validation Requirements (Check appropriate box):

☒ Data review and verification will be performed by Project Manager or QC officer delegate in accordance with Generic QAPP, with data validation conducted according to Generic QAPP

NDEQ SITE-SPECIFIC QAPP ADDENDUM FORM (Modified)

- ☐ Data review, validation and verification will be performed as follows with data validation conducted according to alternate methods (describe):

Field analysis utilized? (Select Yes or No) (If yes, memorandum, field analytical sheets, etc. from field analyst should be reviewed by Project Manager and/or Site QC Officer after completion of field analysis). Note: TBA *Triad Approach* requires site-specific QAPP for using field analysis.

5.2 Verification and Validation Methods (Check appropriate box):

- ☒ In accordance with Generic QAPP ☐ Specific requirements (state):

5.3 Reconciliation with User Requirements—Data Quality Objectives (Check appropriate box):

- ☒ In accordance with Generic QAPP ☐ Specific requirements (state):

NDEQ SITE-SPECIFIC QAPP ADDENDUM FORM (Modified)**6. APPROVAL SIGNATURES & DATES:**

Note: The QAPP Addendum will not be considered complete until all of the appropriate approval signatures indicated below are obtained. If the QAPP Addendum has to be revised after signatures (some or all) were obtained, new signatures will be required to properly finalize and approve the revised QAPP Addendum.

Paul Snarr
Brownfield Project Manager
(name)

Signature

9-13-2016

Date

Clay Muirhead
Contractor Project Manager
(name)

Signature

Date

Dave Koch
Contractor QA Officer/Designee
(name)

Signature

9/13/2016

Date

Megan Hughes
Contractor Assessment Coordinator
(name)

Signature

9/13/2016

Date

Sarah Sweeney
NDEQ Project Manager/Designee
(name)

Signature

Date

Jennifer Morris
EPA Brownfields Grant Manager
(name)

Signature

Date

APPENDIX D

TABLE 3 – 2016 PROJECT SCHEDULE
B&T METALS PHASE II ENVIRONMENTAL ASSESSMENT
1855 3RD STREET
GERING, NEBRASKA
TERRACON PROJECT NO. 05159093

Activity	Planned Start Date	Planned Completion Date
Prepare draft PSAP, Revision 1	-	August 31, 2016
NDEQ review and approval of PSAP	September 1, 2016	September 23, 2016
Issue final PSAP		September 30, 2016
Drilling and sampling	August 29, 2016	October 17, 2016
PSAP report preparations	November 7, 2016	November 11, 2016
Client review of PSAP report	November 14, 2016	November 18, 2016
Issue final PSAP report		November 25, 2016

APPENDIX E

**Site Safety and Health Plan
Chlorinated Solvents,
Volatile Organic Compounds, Metals,
Poly-Aromatic Hydrocarbons,
Polychlorinated Biphenyl
Contamination Anticipated**

**B&T Metals
1855 3rd Street
Gering, Scotts Bluff County, Nebraska**

June 25, 2016
Terracon Project No. 05159093

Client:
City of Gering

Prepared by:
Terracon Consultants, Inc.
Omaha, Nebraska

INTRODUCTION

This Site Safety and Health Plan has been developed to keep Terracon personnel engaged in environmental services on the **B&T Metals** Project site safe so that they leave the site uninjured at the conclusion of every work day. Petroleum compounds/COCs relative to petroleum compounds are anticipated to be co-mingled in residual concentrations with other hazardous substances. Safety expectations of Terracon personnel working on this site will be as follows:

- Follow the safety rules applicable to your job.
- If it is not safe, do not do it; do not have your co-worker do it either.
- If you see something that is unsafe, **speak up** immediately, there and then, to your supervisor, no matter who – no matter what.
- If you are not sure of something or do not understand something, **speak up and ask**.

Terracon employees have the right to expect management cooperation in helping to keep them safe. Here is what you can expect from Terracon management while engaging in services at this project site:

- If you stop a task for a safety reason, we will back you up.
- If you bring up a safety concern, we will address it promptly. It will not go into a black hole.
- If there is an injury, we will conduct an incident investigation in a way that does not blame anyone – the person or people involved. The investigation will focus on learning, so that we can eliminate the next injury.

We want every employee to conduct field operations in accordance with our Incident and Injury-Free principals:

- Evaluate the hazards of the work you are getting into and control the hazards to the extent practical before engaging in site services.
- Be observant to people who are inexperienced anxious about their work and for those who are being complacent with safe work procedures. Speak up to both, out of care and concern, and help them see that doing their work safely is the right thing to do for both them and their families.
- Be open if someone speaks to you about potential unsafe behaviors or equipment, and cooperate in the spirit of getting the job done safely. Everybody deserves a future.



PROJECT NAME: B&T Metals

LOCATION: 1855 3rd Street, Gering, Nebraska, 69341

TERRACON PROJECT NUMBER: 05159093

START DATE:

1.0 APPLICABILITY

This Site Safety and Health Plan (Plan) has been developed for the safety of Terracon personnel engaged in field services at the above referenced site. The purpose of this plan is to prevent adverse health effects from potential contaminants and safety hazards which may be present at this site.

Safety expectations of Terracon personnel working on this site will be as follows:

Follow the safety rules applicable to your job.

- If it is not safe, do not do it; do not have your co-worker do it either.
- If you see something that is unsafe, **speak up** immediately, there and then, to your supervisor, no matter who – no matter what.
- If you are not sure of something or do not understand something, **speak up and ask**.

Terracon employees have the right to expect management cooperation in helping to keep them safe. Here is what you can expect from Terracon management while engaging in services at this project site:

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- Be observant to people who are inexperienced, are anxious about their work and/or for those who are being complacent with safe work procedures. Speak up to both, out of care and concern, and help them see that doing their work safely is the right thing to do for both them and their families.
- Be open if someone speaks to you about potential unsafe behaviors or equipment, and cooperate in the spirit of getting the job done safely. Everybody deserves a future.

2.0 SAFETY AND HEALTH ADMINISTRATION

The Project Manager is ultimately responsible for seeing that work on this project is performed in accordance with the safety and health provisions contained in this Plan. The designated Site Safety and Health Officer (SSO) will monitor compliance with this Plan during field activities. All field team members engaged in project activities will be required to sign the "Acknowledgment of Instruction" form included with this Plan. The SSO will maintain a copy of this Plan on site for the duration of project activities.

Subcontractors engaged in project activity at these sites will comply with applicable provisions of the Occupational Safety and Health Act of 1970, the safety and health requirements set forth in Occupational Safety and Health Administration (OSHA) regulation 29 Code of Federal Regulations (CFR) 1910.120, where applicable, and any applicable state, city or local safety codes. Each subcontractor will be responsible for supplying a competent person to oversee the work they perform at this project site. The competent person for each subcontractor will bear primary responsibility for utilizing equipment and work practices necessary to protect the safety of the subcontractor's employees engaged in activities at this project site.

The subcontractor will maintain an orderly and safe work area around drilling/probe/excavation equipment to minimize the potential for accidents. In addition, the subcontractor will provide whatever safety barricades or warning devices are deemed necessary by Terracon to prevent accidents or injury to field personnel and the general public.

Subcontractors engaged on these project sites may utilize this site Safety and Health Plan for their employees, or each subcontractor may develop and utilize their own site Safety and Health Plan provided the provisions of the subcontractor's site Safety and Health Plan are at least as stringent as the requirements contained in this Plan. Decisions regarding equivalence of safety and health requirements will be made by Terracon Project Manager and Corporate Safety and Health Manager. Adoption of this Site Safety and Health Plan by subcontract employers shall not relieve any site subcontractor for the responsibility for the health and safety of its employees.

Terracon and subcontractor task leaders will be responsible for:

- Providing subordinate personnel a copy of this Plan, and briefing them on its content.
- Enforcing the applicable provisions of this Plan.
- Inspecting and maintaining equipment in compliance with applicable federal, state or local safety regulations.
- Enforcement of corrective actions.
- Investigation of accidents or injuries.

The following individuals will be responsible for implementation and enforcement of the Plan:

<u>TITLE</u>	<u>NAME</u>	<u>PHONE</u>
Assessment Coordinator:	Megan Hughes	402-384-7025
Terracon Safety and Health Manager:	Andrew Boehm	913-599-6886
Site Safety and Health Officer:	TBD	

<u>TITLE</u>	<u>NAME</u>	<u>PHONE</u>
Terracon Task Leader(s):	Mike Hagemeister Clay Muirhead	402-384-7019 307-638-5256
Subcontractor Crew Lead:	Patrick Martin	785-823-6205
Client Contact:	Paul Snarr	308-436-5096

If hazardous conditions develop during the course of project activity, the SSO will consult the Corporate Safety and Health Manager and coordinate actions required to safeguard site personnel and members of the general public. Additional safety measures will be verbally communicated to all project personnel, recorded in writing and appended to this Plan.

3.0 MEDICAL SURVEILLANCE REQUIREMENTS

Terracon personnel participating in field operations on this project will be enrolled in a health monitoring program in accordance with the provisions of OSHA 29 CFR 1910.120 and 1910.134. Each project participant must be certified by a Doctor of Medicine as fit for respirator and semi-permeable/impermeable protective equipment use. The content and frequency of physical examinations will be determined by the Consulting physician in compliance with the requirements of 29 CFR 1910.120.

Follow-up medical examinations will also be provided in the event of illness or unprotected exposure to contaminants in excess of eight-hour time weighted average permissible exposure limits.

4.0 EMPLOYEE TRAINING REQUIREMENTS

Terracon field personnel participating in this project must have completed 40-hour Hazardous Waste Site Training and at least three days supervised field experience per the requirements of OSHA 29 CFR 1910.120. In addition, a current 8-hour annual refresher training certificate will be required for all personnel. Training certificates will be maintained by the Corporate Safety and Health Manager in the Terracon Corporate Office.

Prior to the start of project activities, the Project Manager will discuss the contents of this Plan with Terracon personnel on-site. The proposed scope of work, potential site hazards, air monitoring requirements and action levels for upgrade/downgrade of personal protective equipment will be communicated to all field personnel.

5.0 RESPIRATORY PROTECTION PROGRAM

Respirators used by Terracon personnel will be National Institute of Occupational Safety and Health (NIOSH) approved. Cartridges and filters for air purifying respirators will be appropriate for the contaminant(s) of concern (COCs). Cartridge/filter selection will be made by the Terracon Corporate Safety and Health Manager. Project personnel required to wear respiratory protection will be medically cleared for respirator use, trained and successfully fit tested in accordance with OSHA 29 CFR 1910.134. Personnel required to wear respirators will demonstrate competence in

donning/doffing and inspecting the equipment prior to job assignment. Project tasks requiring the use of supplied air respirators will require properly equipped backup personnel.

At a minimum, air purifying respirator cartridges will be changed daily prior to use. More frequent change of respirator cartridges may be specified based on the results of site air monitoring. Under no circumstances will air purifying respirators be used in areas deficient in oxygen (<19.5%), in areas classified as immediately dangerous to life and health (IDLH) or in areas where contaminants have not been characterized.

Respirators will be inspected and required fit checks will be performed prior to use, and any necessary repairs will be made before proceeding to the project site. Respirators will be sanitized daily after use.

6.0 SITE HISTORY/SCOPE OF SERVICES

Terracon personnel will perform intrusive activities at the site. Currently available information on operations and *suspected* COCs at the site is indicated below:

Operations: former metal recycling facility

Potential COCs: VOCs, Chlorinated Solvents, poly aromatic hydrocarbons (PAHs), RCRA Metals

Services to be conducted on this project site will include the following (please check all that apply):

- | | |
|--|--|
| <input checked="" type="checkbox"/> Soil/Groundwater Sampling | <input type="checkbox"/> Soil Boring (Hand Auger) |
| <input checked="" type="checkbox"/> Soil Boring (Geoprobe Rig) | <input type="checkbox"/> UST Removal (<i>requires tank removal addendum</i>) |
| <input type="checkbox"/> Remedial System Installation | <input type="checkbox"/> Monitoring Well Installation |
| <input type="checkbox"/> Other (wipe sampling using concentrated lab grade hexane) | |

The personal protective equipment and direct-reading air monitoring protocols specified below are designed to prevent personnel exposure to contamination in excess of permissible exposure limits. Accordingly, Terracon personnel will abide by the personal protective equipment and air monitoring protocols contained in this Plan during site activities that pose a risk of potential exposure.

7.0 HAZARD ASSESSMENT

7.1 Chemical Hazards

Soils/groundwater at this project site may be contaminated with one or more COCs. Specific health hazard information on potential COCs are provided below. Based on available data, the following are considered the most likely COCs to be present:

GASOLINE

Permissible Exposure Limit

300 ppm ACGIH TLV

Gasoline is irritating to the skin, eyes and mucous membranes. Dermatitis may result from prolonged contact with the liquid. Gasoline acts as a central nervous system depressant. Exposure may cause staggering gait, slurred speech and mental confusion. Gasoline exposure may affect the liver, kidneys and spleen. Absorption of alkyl lead antiknock compounds contained in many gasolines poses an additional health concern, especially where there is prolonged skin contact.

DIESEL FUEL (No. 2-D)

Permissible Exposure Limit

100 mg/m³ ppm ACGIH TLV (As mist/vapor)

Diesel fuel is a skin and mucous membrane irritant and a central nervous system depressant. Poisoning may affect the liver and kidneys. Skin contact may result in drying and cracking of the skin.

FUEL OIL (No. 6)

Permissible Exposure Limit

400 ppm OSHA PEL (as petroleum distillates/naphtha)

0.2 mg/m³ OSHA PEL (Coal Tar Pitch Volatiles, "PNA's")

Fuel oil No. 6, or "Bunker Fuel", is of low volatility. It can be irritating to the eyes and skin. This substance is likely to contain polynuclear aromatic hydrocarbons (PNA's), some of which are considered carcinogenic. PNA's present a skin contact hazard. Avoid skin contact with potentially contaminated site materials.

BENZENE

Permissible Exposure Limit

1 ppm OSHA PEL

5 ppm OSHA 15 min STEL

0.5 ppm OSHA Action Level

Benzene is a central nervous system depressant and an eye and skin irritant. Poisoning may cause hemorrhages and immunosuppression. A relationship has been discovered between benzene exposure and leukemia. Benzene is regulated as an occupational carcinogen. Acute exposure may cause dizziness, excitation, weakness, headache, giddiness, breathlessness and chest constriction.

TOLUENE

Permissible Exposure Limit

20 ppm ACGIH TLV

(Skin Absorbable)

Toluene is an eye, skin and mucous membrane irritant and a central nervous system depressant. Poisoning may affect the liver and kidneys. Prolonged exposure may affect the heart and blood. The ingestion of alcoholic beverages may enhance the toxic effects of toluene. Symptoms of

exposure include respiratory tract irritation, headache, dizziness and eye irritation. Toluene may be absorbed to the bloodstream via skin contact.

ETHYL BENZENE

Permissible Exposure Limit

20 ppm ACGIH TLV

Ethyl benzene is a skin, eye and mucous membrane irritant. It is moderately toxic by ingestion and slightly toxic by skin absorption. Ethyl benzene is a central nervous system depressant. Poisoning may affect the liver. Symptoms of exposure may include a sense of chest constriction and nervous disorders. Skin contact may result in first and second degree burns. The odor can be detected at 140 ppm and irritation occurs at ~200 ppm.

XYLENE

Permissible Exposure Limit

100 ppm OSHA PEL

Xylene is a mild eye and mucous membrane irritant, primary skin irritant and a central nervous system depressant. Ingestion causes severe gastrointestinal upset and creates an aspiration hazard. Chronic inhalation results in symptoms that resemble acute poisoning, but are more severe systemically.

TRICHLOROETHENE

Permissible Exposure Limit

100 ppm OSHA PEL

200 ppm OSHA STEL

50 ppm ACGIH TLV

Trichloroethene (TCE) is a clear, colorless volatile liquid with a sweet, chloroform-like odor. TCE is a narcotic, an irritant to the skin and mucous membranes, a liver and kidney toxin and is believed by NIOSH to be a potential human carcinogen. Workers exposed to concentrations averaging 10 ppm complained of headache, dizziness and sleepiness. Prolonged inhalation of vapors may result in central nervous system depression, nausea, narcosis, headache and nausea. Skin contact may cause drying, redness and irritation. Chronic exposure to TCE vapors may cause kidney and liver damage.

TETRACHLOROETHENE

Permissible Exposure Limit

100 ppm OSHA PEL

200 ppm OSHA STEL

25 ppm ACGIH TLV

Tetrachloroethene (PCE) is a clear, colorless, volatile liquid with an ether-like odor. NIOSH considers PCE to be a potential human carcinogen. PCE causes central nervous system depression and liver damage. Defatting action of the skin can lead to dermatitis. Unconsciousness, dizziness, headache, vertigo and light narcosis have occurred in many instances after occupational exposure.

Cis-1,2-DICHLOROETHENE

Permissible Exposure Limit

200 ppm OSHA PEL

Cis-1,2-Dichloroethene is a colorless liquid with a sweet, pleasant odor. Skin contact may irritate skin and mucous membranes. It is a highly narcotic compound. Symptoms of acute exposure include central nervous system depression, nausea, vomiting, weakness and tremor.

1,1,1-TRICHLOROETHANE

Permissible Exposure Limit

350 ppm OSHA PEL

1,1,1-trichloroethane is a colorless liquid with a chloroform-like odor. Skin contact may irritate the skin and mucous membranes. It is a central nervous system depressant. Excessive absorption through the lungs or gastrointestinal tract produces CNS depression. Mild liver and kidney dysfunction has also been reported.

BARIUM

Permissible Exposure Limit

0.5 mg/m³ OSHA PEL (soluble barium compounds)

Barium is a silvery-white metal found in nature. It occurs combined with other chemicals such as sulfur or carbon and oxygen. These combinations are called compounds. Barium compounds can also be produced by industry. The health effects of the different barium compounds depend on how well the compound dissolves in water. Barium compounds that do not dissolve well in water are not generally harmful and are often used by doctors for medical purposes. Those barium compounds that dissolve well in water may cause harmful health effects in people. Ingesting high levels of barium compounds that dissolve well in water over the short term has resulted in: Difficulties in breathing; Increased blood pressure; Changes in heart rhythm; Stomach irritation; Brain swelling; Muscle weakness; and, Damage to the liver, kidney, heart, and spleen.

CHROMIUM

Permissible Exposure Limit

1000 ug/m³ OSHA PEL (Chromium 0)

500 ug/m³ OSHA PEL (Chromium III)

100 ug/m³ OSHA PEL (Chromium VI)

Chromium has three main forms chromium(0), chromium(III), and chromium(VI). Chromium(III) compounds are stable and occur naturally, in the environment. Chromium(0) does not occur naturally and chromium (VI) occurs only rarely. Chromium compounds have no taste or odor. All forms of chromium can be toxic at high levels, but chromium(VI) is more toxic than chromium(III). Breathing very high levels of chromium(VI) in air can damage and irritate your nose, lungs, stomach, and intestines. People who are allergic to chromium may also have asthma attacks after breathing high levels of either chromium(VI) or (III). Long term exposures to high or moderate levels of chromium(VI) cause damage to the nose (bleeding, itching, sores) and lungs, and can increase your risk of non-cancer lung diseases. Ingesting very large amounts of chromium can cause stomach upsets and ulcers, convulsions, kidney and liver damage, and even death.

LEAD

Permissible Exposure Limit

50 ug/m³ OSHA PEL

Lead is a naturally occurring bluish-gray metal found in small amounts in the earth's crust. It has no special taste or smell. Lead can be found in all parts of our environment. Most of it came from human activities like mining, manufacturing, and the burning of fossil fuels. Lead can affect almost every organ and system in your body. The most sensitive is the central nervous system, particularly in children. Lead also damages kidneys and the immune system. The effects are the same whether it is breathed or swallowed. Exposure to lead is more dangerous for young and unborn children. Unborn children can be exposed to lead through their mothers. Harmful effects include premature births, smaller babies, decreased mental ability in the infant, learning difficulties, and reduced growth in young children. These effects are more common after exposure to high levels of lead. In adults, lead may decrease reaction time, cause weakness in fingers, wrists, or ankles, and possibly affect the memory. Lead may cause anemia, a disorder of the blood. It can cause abortion and damage the male reproductive system. The connection between these effects and exposure to low levels of lead is uncertain.

PAHs (a.k.a. polycyclic aromatic hydrocarbons)

Permissible Exposure Limit

0.2 ug/m³ OSHA PEL

5 ug/m³ OSHA PEL (Mineral oil mist containing PNAs)

PNAs are a group of over 100 different chemicals that are formed during the incomplete burning of coal, oil and gas, garbage, or other organic substances like tobacco or charbroiled meat. PNAs are usually found as a mixture containing two or more of these compounds, such as soot. The Department of Health and Human Services has determined that some PNAs may reasonably be expected to be carcinogens. Some people who have breathed or touched mixtures of PNAs and other chemicals for long periods of time have developed cancer. Some PNAs have caused cancer in laboratory animals when they breathed air containing them (lung cancer), ingested them in food (stomach cancer), or had them applied to their skin (skin cancer).

7.2 Drilling Safety Precautions

Activities to be performed on site may involve drilling and/or hydraulic probe equipment and materials. Personnel should be aware that as personal protective equipment increases, dexterity and visibility may be impacted and performing some tasks may be more difficult. Tape all loose protective clothing to avoid entanglement in rotating equipment.

Other drilling safety precautions to be observed during this assessment include the following:

- Before drilling proceeds, underground utilities must be located and marked.
- All personnel working around drill rigs will be familiarized with emergency shut-down procedures and the position of "kill" switches.
- No loose fitting clothing, jewelry or unsecured long hair is permitted near the rig.

- Keep hands and feet away from all moving parts while drilling is in progress. Shovel auger cuttings with long handled shovel. *DO NOT* use hands or feet.
- Daily inspection of all ropes, cables and moving parts is mandatory.
- A first aid kit and fire extinguisher will be immediately available at all times.
- All drill crews must consist of at least two persons.
- No drilling is permitted during impending electrical storms, tornadoes or when rain creates a hazardous work environment.
- A minimum horizontal and vertical clearance distance of **20 feet** must be maintained between the drill rig and overhead power lines; use spotters to help rig operator maneuver the vehicle when near overhead power lines.

7.3 Monitoring Well Sampling Precautions

Personnel engaged in monitoring well sampling are advised that organic vapors from contaminated groundwater can collect in wells and be displaced by bailers.

- Approach monitoring wells from the upwind side.
- Remove the cap and allow the well to vent momentarily before introducing bailers.
- Keep breathing zone back and to the upwind side of wells during bailing activities.

7.4 Site Physical Hazards/Precautions

The physical hazards associated with intrusive site activities can include inclement weather, material handling, slips/falls etc. Some anticipated hazards and means for preventing injury from those hazards are as follows:

- **Back injuries due to improper lifting** - Use proper lifting techniques. Lift with the legs, not the back. Keep loads close to the body and avoid twisting. Loads heavier than 50 pounds (lbs.) require a second person or mechanical device for lifting. Use mechanical devices such as drum dollies, hand trucks, and tool hoists (for lifting augers) to lift or move heavy loads whenever possible.
- **Ergonomic Stress** - Lift carefully with load close to body with the legs taking most of the weight. Get help with lifts greater than 40 lbs. When working with a heavy tool or object, keep legs under the load and do not overreach or twist to the side. Reposition body to be more square to the load and work. Push loads, rather than pull, whenever feasible. Do not persist with lifting when the load is too heavy. Use a mechanical lifting aid or have a coworker assist with the lift. Rotate repetitive tasks to avoid soft-tissue fatigue.
- **Falls From Elevated Surfaces** - Protect employees from falling off surfaces that have a side or an edge that is 6 ft. or more above a lower level. Provide a safety harness and shock-absorbing lifeline or adequate fall protection where applicable. Employees must wear them when working 6 ft. or higher above the platform or main work deck. Install

either a guardrail system or fall arrest system that conforms to 29 CFR 1926.502 (d) and is approved by the American National Standards Institute.

- **Vehicles** - Obey all site traffic signs and speed limits. Seat belts must be functional and in use during operation of any site vehicles (including rentals). Operator shall regularly inspect the vehicle for defective parts, such as brakes, controls, motor, chassis and drives. Always be aware and stay alert to traffic around the work area.
- **Inclement Weather** – The project may be shut down by the SSO during the following inclement weather conditions: poor visibility; precipitation severe enough to impair safe movement or travel; lightning in the immediate area; steady winds in excess of 40 mph; or, other conditions as determined by the SSO or Corporate Safety and Health Manager. Work will resume when the conditions are deemed safe by the SSO.
- **Noise** - Wear hearing protection when speech becomes difficult to understand at a distance of 10 ft. and while standing within 20 to 25 ft. from heavy equipment, pneumatic power tools, steam cleaners, and other equipment in operation that can generate more than 85 decibels (A-weighted scale) (dB).
- **Slips, Trips, and Falls** - Clear work area of obstructions and debris before setting up. Alter work areas as necessary to provide a safe, reasonably level area. All walking and working surfaces shall continually be inspected and maintained to be free of slip, trip, and fall hazards. Keep platforms, stairs, and immediate work areas clear. Do not allow oil, grease, or excessive mud to accumulate in these areas. Eliminate slip, trip, and fall hazards or identify them clearly with caution tape, barricades, or equivalent means. Store loose or light material and debris in designated areas or containers. Secure tools, materials, and equipment subject to displacement or falling.
- **Traffic Control** - If site activities interrupt the normal flow of pedestrian or vehicular traffic, barricades and warning signs which comply with the Manual on Uniform Traffic Control Devices and/or State or local ordinances will be erected around affected equipment. Safety orange work vests will be worn by personnel working within 10 feet of any active roadway. All borings or partially completed groundwater monitoring wells will be adequately covered and/or barricaded if left unattended for any period of time.
- **Confined Spaces** – No work will be conducted within confined spaces without discussion with the Corporate Safety and Health Manager and development of a confined space safety plan and permit.

7.5 Biological Hazards

Biological hazards may include mosquitoes, ticks, wasps, spiders or other pests; poisonous plants (poison ivy, poison oak); snakes; thorny bushes and trees; and Potentially Infectious Medical Waste (PIMW).

Mosquitoes

Mosquitoes bites may transmit West Nile virus. Most persons who are infected with West Nile virus will have no noticeable symptoms, or have an illness syndrome called “West Nile Fever” lasting 2-10 days. Common symptoms of West Nile Fever include headache, fever, and extreme

muscle weakness, occasionally accompanied by vomiting or skin rashes. In some cases, West Nile virus infection will cause severe neurologic disease such as meningitis, paralysis, or encephalitis (swelling and inflammation of the brain). Symptoms of West Nile meningitis or encephalitis may be intense headache, dizziness, stiff neck, marked weakness, muscle tremors, disorientation, mental confusion, or convulsions.

Workers should protect themselves from mosquito bites by applying insect repellent to exposed skin. Generally, the more active ingredient a repellent contains, the longer it can protect from mosquito bites. A higher percentage of active ingredient in a repellent does not mean that protection is better—just that it will last longer. Choose a repellent that provides protection for the amount of time that you will be outdoors. Repellents may irritate the eyes and mouth. Whenever an insecticide or insect repellent is used, workers must read and follow the manufacturer's DIRECTIONS FOR USE, as printed on the product.

Insect repellent containing diethyltoluamide (DEET) can be sprayed on skin or clothing to provide protection from mosquitoes. A repellent containing permethrin can also be sprayed on clothing. Repellents containing permethrin should not be applied directly to exposed skin. Workers should wear long-sleeved shirts and long pants whenever outdoors.

Tick borne diseases

Lyme Disease, Ehrlichiosis, Tularemia, Southern Tick-Associated Rash Illness (STARI), and Rocky Mountain Spotted Fever (RMSF) are diseases transmitted by ticks and may occur throughout the United States during spring, summer, and fall. Early diagnosis of tick borne diseases is essential to treatment of the disease.

Avoiding tick bites is the best way to reduce your risk of developing a tick-borne illness. The following personal tick bite prevention tips are recommended when exposure to a wooded or tick infested area is likely:

- Wear light colored clothing to make ticks easier to see.
- Wear long-sleeved shirts and long pants tucked into socks to deprive ticks of attachment sites.
- Check for ticks every three to four hours; particularly along waistbands, in the armpits, and groin area. Don't forget the back and the scalp!
- Use a tick repellent with DEET on skin and clothing according to the directions.
- Use a tick repellent with permethrin ON CLOTHING ONLY as directed by the label.

Additionally, workers should search the entire body every three or four hours for attached ticks. Ticks should be removed promptly and carefully without crushing. A gentle and steady pulling action should be used to avoid leaving the head or mouth parts in the skin.

Stinging Insects

To avoid stinging insects, it is important to learn what they look like and where they live. Most sting reactions are caused by five types of insects: yellow jackets, honeybees, paper wasps, hornets and fire ants. Yellow jackets are black with yellow markings, and are found in various climates. Their nests, which are made of a paper-Mache material, are usually located underground, but can sometimes be found in the walls of frame buildings, cracks in masonry or woodpiles.

Honeybees have a rounded, “fuzzy” body with dark brown coloring and yellow markings. Honeybees are non-aggressive and will only sting when provoked. However, Africanized honeybees, or so-called “killer bees” found in the southwestern United States and South and Central America, are more aggressive and may sting in swarms. Domesticated honeybees live in man-made hives, while wild honeybees live in colonies or “honeycombs” in hollow trees or cavities of buildings. Africanized honeybees may nest in holes in building frames, between fence posts, in old tires or holes in the ground, or other partially protected sites.

Paper wasps' slender, elongated bodies are black, brown, or red with yellow markings. Their nests are also made of a paper-like material that forms a circular comb of cells which opens downward. The nests are often located under eaves, behind shutters, or in shrubs or woodpiles. Hornets are black or brown with white, orange or yellow markings and are usually larger than yellow jackets. Their nests are gray or brown, football-shaped, and made of a paper material similar to that of yellow jackets' nests. Hornets' nests are usually found high above ground on branches of trees, in shrubbery, on gables or in tree hollows.

Fire ants are reddish brown to black stinging insects related to bees and wasps. They build nests of dirt in the ground that may be quite tall (18 inches) in the right kinds of soil. Fire ants may attack with little warning: after firmly grasping the victim's skin with its jaws, the fire ant arches its back as it inserts its rear stinger into the skin. It then pivots at the head and may inflict multiple stings in a circular pattern. Fire ant venom often causes an immediate burning sensation.

Preventing stings

Personnel should stay out of the “territory” of the stinging insects' nests as much as possible. These insects are most likely to sting if their homes are disturbed, so it is important to have hives and nests around work areas destroyed. Since this activity can be dangerous, a trained exterminator should be hired.

If any flying stinging insects are encountered, workers should remain calm and quiet, and move slowly away from them. Many stinging insects are foraging for food. It is important to not look or smell like a flower—avoid brightly colored clothing and perfume when outdoors. Because the smell of food attracts insects, be careful when eating, or drinking sweet drinks like soda or juice outdoors. Keep food and beverages covered until consumed. Workers should avoid loose-fitting garments that can trap insects between material and skin.

Treating stings

If stung by a honeybee that has left its stinger (and attached venom sac) in your skin, remove the stinger within 30 seconds to avoid receiving more venom. A quick scrape of a fingernail removes the stinger and sac. Squeezing the sac should be avoided—this forces more venom through the stinger and into the skin. Hornets, wasps, and yellow jackets do not usually leave their stingers. Try to remain calm, and brush these insects from the skin promptly with deliberate movements to prevent additional stings. Then, quietly and immediately leave the area.

If stung by fire ants, carefully brush them off to prevent repeated stings, and leave the area. Fire ant stings usually result in the development of a blister about 24 hours after the sting. The material in this will become cloudy and appear to be pustular. IT IS NOT! Fire ant venom kills bacteria, this is just dead tissue and should be left alone. It will dry and heal within the next 7 – 10 days. If the blister is opened it must be monitored for secondary bacterial infection. Diabetics and others with circulatory disorders, including varicose veins and phlebitis, can be particularly at risk for

complications, and should see a physician to monitor their condition after being stung. Up to 50% of patients develop large local reactions at the site of fire ant stings—swelling may last for several days and may be accompanied by itching, redness and pain.

Use topical steroid ointments or oral antihistamines to relieve itching. See your doctor if swelling progresses or if the sting site seems infected.

Poisonous Plants

Poison ivy, poison oak or poison sumac may be present in the work area. Personnel should be alerted to the presence of these plants, and instructed on methods to prevent exposure.

The main control is to avoid contact with the plant, cover arms and hands, and use Ivy Block barrier cream on exposed skin. Particular attention must be given to avoiding skin contact with objects or protective clothing that have touched the plants. Treat every surface that may have touched the plant as contaminated, and practice contamination avoidance. If skin contact is made, the area should be washed immediately with Ivy Wipes or soap and water, and observed for signs of reddening.

Be observant for the presence of thorny bushes, plants and trees. To the extent possible these should be avoided to minimize wounds (e.g., punctures). If contact is required exercise care, wear heavy work gloves and appropriate clothing (e.g., long-sleeved shirt, long pants, work boots).

Snakes

The possibility of encountering snakes exists, specifically for personnel working in heavily wooded/vegetated areas. Avoid walking in areas where snakes may nest or hide. When walking, always look ahead for signs of snakes. Employees should make as much noise as possible when approaching a possible snake area to give snakes time to leave. Use a long handled shovel, heavy equipment or other tools when moving or lifting objects that could be used by snakes as cover. Never reach under or behind objects or into other areas where snakes may hide. Look before placing your hands or feet anywhere, and do not put your hands or feet into places you cannot see. Avoid walking alone in snake-infested areas. Do not go out of your way to disturb or kill a snake. Avoid snakes – living and dead. Even dead snakes can bite reflexively.

If an employee is bitten by a snake the following actions are recommended: An attempt should be made to identify the snake. Do not try and capture or kill the snake.

The victim should be transported to the nearest hospital within 30 minutes. First aid consists of washing the area around the wound to remove any unabsorbed venom. Keep the victim calm and limit the victim's physical activity. While limiting movement of the bitten body part, keep the bitten area at the level of the heart.

Remove constricting clothing or jewelry from the bite site because swelling may occur. Remove shoes if bitten on the leg.

- Do not apply a tourniquet.
- Clean the wound if possible.
- Do not pack wound in ice or apply heat.
- Do not give the victim a sedative or alcohol.
- Do not waste time capturing or killing the snake.

- Do not cut into the bite area; you might damage important nerves, tissues or muscles

Potentially Infectious Medical Waste

PIMW is not anticipated at the site. If PIMW is anticipated or encountered the PIMW should not be touched and the area evacuated. The Terracon Safety and Health Manager should be contacted for further instructions.

THIS PLAN IS NOT VALID FOR SITES WITH PIMW

8.0 SITE CONTROL

An exclusion zone, contaminant reduction zone and a support zone will be established whenever project activities require Level C or Level B personal protective equipment. Defined access and egress points will be established and personnel will enter only through those points.

As permitted by site topography, the area within a 50 foot radius of a drill rig, probe unit or excavation equipment be considered the site exclusion zone. Only those personnel designated by the Project Manager/SSO are allowed to enter the Exclusion Zone. Where practical, or where their use will prevent public injury, temporary signs or barricade fencing will be established to define the Exclusion Zone. **ABSOLUTELY NO SMOKING WILL BE PERMITTED WITHIN THE EXCLUSION OR CONTAMINANT REDUCTION ZONES ON PROJECT SITES WHERE COCS INCLUDE FLAMMABLE MATERIALS (E.G., PETROLEUM).**

If unauthorized personnel attempt to enter the exclusion zone, the SSO will verbally inform the individual(s) to leave the project site. If unauthorized individuals refuse to leave the exclusion zone or are considered in danger or pose danger to project personnel, the SSO will cease project activities (i.e., shut down drill rigs, excavation equipment, etc.) and notify the client representative or the local police of the situation. Site activities will not resume until unauthorized personnel have left the project site.

9.0 AIR MONITORING AND SITE ACTION LEVELS

This air monitoring protocol is designed to prevent personnel exposure to airborne contaminants in excess of established permissible exposure limits. The results of field air monitoring will be used to determine the adequacy of initial personal protective equipment selection. Air monitoring equipment required for contaminated sites with volatile COCs will include the following:

- **Photoionization Detector**

Task Leader(s) will be knowledgeable in the operation of the photoionization detector (PID). A manual on the operation of the PID and the appropriate calibration kit will be mobilized to the project site with the instrument. Photoionization detectors will be calibrated under field conditions *each day* prior to use. Task Leaders are instructed to consult the manufacturer's specifications for appropriate calibration gas and calibration techniques. It is recommended that the ionization potential of the principal known COCs be evaluated prior to site mobilization. Where required, a higher energy (11.7 or 11.8 eV) lamp should be utilized on some chlorinated solvent project sites (e.g. methylene chloride). The higher energy lamps may typically be rented for the duration of the project.

A PID will be used to determine approximate volatile vapor concentrations in the BREATHING ZONE of site personnel. Continuous breathing zone air monitoring will be conducted during initial phases of intrusive activities (i.e., boring, excavation). If PID readings are less than 10 ppm, monitoring may be conducted at intervals of 10 minutes. If initial PID readings exceed 10 ppm, or if odors (e.g., chlorinated, volatile) become evident during auger advancement, continuous breathing zone air monitoring will be conducted.

If sustained PID readings in the breathing zone exceed 25 ppm, personnel will upgrade to respiratory protection as outlined below. Personnel will remain in air purifying respirators until the photoionization detector readings in the breathing zone have fallen and stabilized below 25 ppm.

9.1 Site Action Levels

The following action levels will be utilized in evaluating the appropriate PPE to be used for volatile constituents:

<u>COMPOUND</u>	<u>MODIFIED LEVEL D</u>	<u>LEVEL C</u>	<u>SITE EVACUATION</u>
Chlorinated VOCs	< 10 ppm	10-50 ppm	> 50 ppm
Petroleum VOCs	< 25 ppm	>25 ppm	> 300 ppm

If organic vapors in the breathing zone of site personnel exceed the **MODIFIED LEVEL D** criteria, personnel will upgrade to full face air purifying respirators equipped with organic vapor cartridges. Personnel will remain in Level C respiratory protection until sustained breathing zone volatile vapor readings remain below the **MODIFIED LEVEL D** criteria. If organic vapor readings exceed the **SITE EVACUATION** criteria, site personnel will evacuate the area and notify the Safety and Health Manager to discuss site conditions, additional monitoring requirements, enhanced respiratory protection and modification of this Plan.

The Action Levels indicated above are for air in the breathing zone and NOT applicable to vapor above containerized soil samples. The Action Levels are established to prevent exposure to airborne petroleum hydrocarbon vapors in excess of established exposure limits. Although the Action Levels indicated for Site Evacuation are within the protective capacity of the respirator cartridges specified below, personnel will evacuate to the UPWIND side of the site if the continuous breathing zone vapor concentrations exceed these limits. The SSO will contact the Corporate Safety and Health Manager for discussion and re-evaluation of personal protective equipment and air monitoring requirements if airborne contamination exceeds Site Evacuation Action Levels. In the event that site evacuation is required, a modification of this safety and health plan will be issued with contingencies for combustible gas monitoring and upgrading to Level B personal protective equipment.

THIS PLAN IS NOT VALID FOR LEVEL B SITE ACTIVITIES

10.0 PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS

The air monitoring regimen identified above will allow initial project activity to begin in LEVEL D. LEVEL D personal protective equipment includes the following:

- **Hard Hat**
- **Safety Footwear (ASTM spec; Impermeable or with outer impermeable covers)**
- **Nitrile or Neoprene Rubber Outer Gloves**
- **Nitrile Glove Liners**
- **Safety Eye Wear (ANSI Z-87 specification)**
- **Hearing Protection (if within 10 feet of drill rigs, concrete coring or other equipment which impairs normal conversation at < 5 feet.)**

If "saturated" potentially contaminated soils and/or potential splashing conditions develop during the course of the field activities, personnel will upgrade to LEVEL D MODIFIED personal protective equipment. Level D Modified personal protective equipment ensemble consists of the above, plus:

- **Laminated Tyvek Coveralls**
- **Tape Sleeves/Legs to Gloves and Boots**

If air monitoring exceeds Action Level specified for upgrade to LEVEL C personal protective equipment, personnel will don:

- **Full Face Air Purifying Respirator**
- **Equipped with Combination Organic Vapor/Acid Gas/HEPA Cartridges**

Respirator cartridges will be changed daily prior to start of site activity.

11.0 DECONTAMINATION

Equipment decontamination is required on sites with contamination. Personnel decontamination for projects below personal protective Level C will consist of washing off safety footwear, proper cleaning or disposal of outer and inner gloves and thorough washing of face, arms and hands. For projects involving Level C personal protective equipment, a decontamination station will be established and the following procedures enforced.

11.1 Personal Decontamination

Personnel will establish a decontamination station on the interface of the Exclusion Zone. A Contaminant Reduction Zone will be established and will extend 10 feet beyond from the decontamination station.

- **Two Wash Tubs**
- **Scrub Brush**
- **Plastic Bags**
- **Water and Alconox Detergent**

The wash tub on the exclusion zone side of the site will contain a solution of water and Alconox detergent; the second wash tub will contain clean rinse water. Personnel decontamination will consist primarily of detergent washing and rinsing of reusable exterior protective gear. Coveralls will be removed by turning the clothing inside out.

Personnel may not leave the contaminant reduction zone without proceeding through the decontamination sequence described below. The general decontamination sequence should be as follows:

- Wash work gloves, boots and poly-laminated protective coveralls,
- Rinse work gloves, boots and coveralls,
- Remove tape at wrists and ankles,
- Remove protective coveralls,
- Remove respirator
- Dispose of spent cartridges; wash and rinse respirator
- Remove outer gloves
- Remove inner gloves

Expendable personal protective equipment will be placed in plastic trash bags, sealed and disposed of per client agreement. Decontamination solutions will be containerized or disposed of as arranged by Project Manager.

11.2 Equipment Decontamination

Decontamination of equipment will be performed to limit the migration of contaminants off-site. All equipment will be cleaned prior to site entry to remove grease, oil and encrusted soil.

Decontamination of large equipment will consist of physically removing gross contamination with shovels, brushes etc. followed by detergent and water high pressure wash with a clean water rinse. The Project Manager is responsible for determining if decontamination solutions must be containerized. If so, a decontamination sump or polyethylene sheeting and fluid containers will be mobilized and established in the decontamination area. Decontamination of hand samplers and similar small equipment will be performed at a designated location within the Contaminant Reduction Zone. Decontamination of such equipment will consist of detergent solution wash and clean water rinse.

11.3 Power Washer/Decontamination Safety

The operator should wear safety glasses or a face shield at all times during use of the power washer. Caution should be used while operating the washer to ensure that all Site personnel are out of the area.

12.0 SITE COMMUNICATIONS

Communication between personnel within the Exclusion Zone will be via verbal communication or hand signals. Visual contact between members of task teams should be possible throughout the course of project activities. Contact with the SSO will be through direct verbal communication. The following hand signals will be used by personnel wherever respiratory protection and/or equipment noise limit verbal communication.

Signal

Meaning

Thumbs Up

OK; all is well

Grab throat with both hands
Shake head, thumbs down
Point right (when facing equipment operator)
Point left (when facing equipment operator)
Grab partner's wrist

Can't breathe
NO, negative
Move/steer left
Move/steer right
Leave area immediately

13.0 EMERGENCY RESPONSE PROCEDURES

The facility will be checked 24 hours in advance of filed work to confirm that the medical facility is open and actively supporting emergency services. The Project Manager is responsible for obtaining and recording the following emergency information prior to site mobilization:

Location of Nearest Telephone: _On-site Terracon Personnel will have a cell phone

Nearest Hospital/Clinic: Regional West Medical Center **Phone:** 308-635-3711

Estimated Drive Time: 12 minutes

Directions From Site: (Attach a Site Diagram as an Appendix to this Plan) _____

Ambulance:	911
Fire Department:	911
Police:	911
Poison Control Center:	1-800-222-1222
WorkCare (Managed Care Provider)	888-449-7787
Project Manager:	402-384-7019
Terracon Safety and Health Manager:	1-913-577-0419
SSO:	402-384-7025
	402-290-4815 (cell)

The SSO shall have a cell phone with active coverage and a backup cellphone or vehicle charger in case of battery failure.

Client Contact: **308-436-5096**

13.1 Personal Injury

The SSO and at least one other individual on site will be appropriately trained to administer first aid and CPR. A certificate issued by the American Red Cross, National Safety Council or equivalent will be considered appropriate.

In the event of non-life threatening injuries such as minor cuts, burns, exhaustion, heat cramps, insect stings, etc., the affected employee will be removed to a safe location and appropriate first aid measures should be rendered. It is the responsibility of every employee to report all unsafe acts and incidents (equipment or facility damages as well as injury accidents) to their direct supervisor as soon as possible. Personnel who incur injuries not requiring immediate medical attention are instructed to call WorkCare at 888-449-7787. The affected supervisor will complete an Accident/Injury Investigation form within 48 hours of the incident, and forward it to their home office or enter it directly into Terracon's Automated Claims Management System. Details will be shared with the client and/or contractor as may be required by contractual agreement. A root cause analysis will be prepared by the affected Office Manager. All reports must include written recommendations of actions the office will take to prevent a recurrence of the incident.

For more serious injuries the Site Safety Officer or designee will summon an ambulance to the project site. No attempt will be made by Terracon personnel to move the victim, without the aid and/or instructions of qualified medical personnel.

Where air monitoring indicates the absence of toxic gases or vapors, the ambulance will be directed to the affected employee. If site conditions warrant and as time permits, the wheels of the ambulance will be decontaminated with high pressure wash. The SSO or designee will accompany the ambulance to the medical facility, and provide guidance concerning additional decontamination which may be required for the injured employee, ambulance or attendants.

Whenever an injury occurs on sites with contamination requiring personal protective equipment greater than Level D modified, a minimum of two employees will don appropriate equipment and proceed to the victim. An ambulance will be called immediately. If the extent of injuries permit, the injured employee will be removed to fresh air. Appropriate first aid will be administered.

If rescuer(s) assess that the victim cannot be removed without a stretcher or other specialized equipment, the victim will be removed at the earliest possible moment by appropriately attired Terracon personnel with the direction and/or assistance of qualified medical response personnel. The injured employee will be immediately decontaminated and transported to the nearest medical facility. A crew member designated by the SSO will inform the ambulance crew of contaminants of concern and provide assistance with additional decontamination if required.

13.2 Evacuation and Shutdown Procedures

The SSO will establish and notify site personnel of emergency "rally" points. In the event of a site emergency, personnel will immediately exit the site and assemble at the designated rally point. Evacuation routes will be dependent on site topography and wind conditions. The routes will be selected and presented by the SSO daily prior to site activity.

If emergency evacuation becomes necessary, the SSO will sound the emergency alarm (e.g. support vehicle horn or compressed air horn). Personnel will safely shutdown all electrical and mechanical equipment and quickly proceed to closest designated rally point. The SSO will then account for each crew member on site.

In the event that a Terracon employee does not report to the designated rally point within 5 minutes of the evacuation alarm, the SSO will perform an immediate assessment of site conditions. If site conditions do not pose an immediate hazard to life or health, the SSO will initiate search and rescue efforts utilizing two crew members attired in appropriate personal protective equipment.

14.0 THERMAL STRESS

14.1 Heat Stress

Whenever ambient temperature exceeds 70 degrees F and personal protective equipment requirements are Level D or Level D modified, the following heat stress monitoring and preventive measures will be implemented:

- Mobilize at least one gallon of water for each field employee during each day of site activity.
- Periodically observe personnel for signs of heat stress (excessive perspiration, flushed skin, nausea, etc.).
- Move affected workers out of contaminant zones,
- Loosen protective clothing and permit them to rest
- Have conscious, affected personnel drink at least one 8 oz. glass of cool water.
- Check pulse; personnel should not return to work until pulse rate is less than 90 beats/min.

14.2 Heat Stress in Level C/Level B PPE

In addition to the above precautions, the following procedures will be implemented whenever the ambient temperature exceeds 70° F and personal protective equipment requirements are Level C or above. Ambient temperature will be measured with a dry bulb thermometer and percent cloud cover will be estimated:

1.0 = No Clouds
0.75 = 25% Clouds
0.5 = 50% Clouds
0.25 = 75% Clouds
0.0 = 100% Clouds).

Calculate the adjusted temperature using the following formula:

$$\text{ADJUSTED TEMPERATURE} = 13(\% \text{ CLOUD COVER}) + \text{DRY TEMPERATURE}$$

Rest regimens will be implemented at frequencies dependent upon adjusted temperature. Monitor pulse during each rest period.

Adjusted Temperature

90+
87.5-90
82.5-87.4
77.5-82.5
70.5-77.4

Rest Period/Monitoring Frequency

After 15 minutes
After 30 minutes
After 60 minutes
After 90 minutes
After 120 minutes

Employees will return to work only after their pulse rate is below 90. Fluid replacement will be encouraged during each rest period. The use of stimulants and alcoholic beverages in off hours should be discouraged to prevent heat related illnesses.

14.3 Cold Stress

Persons working outdoors in low temperatures are subject to cold stress, especially if the temperature is at or below freezing. Exposure to cold for a short period of time can cause severe injury to the surface of the body (frostbite), or result in profound general cooling, potentially resulting in clinical hypothermia and death. Areas of the body with high surface to volume area, such as fingers, toes, and ears are the most susceptible. In general, the body's response to cold stress progresses from frostbite to hypothermia. Recognition of the symptoms of cold stress is essential to worker protection when operating in low temperatures.

Utilize cold weather clothing available from Terracon's personal protective equipment vendor, including thermal hardhat liners, gloves, and footwear traction devices to prevent slips and falls on slick and icy walking surfaces.

15.0 TRAFFIC CONTROL

Worksites confront motorists with a situation they do not expect, cannot anticipate and find confusing. They also tend to create hazards with which the driver can collide. Worksites distract motorist's attention from the driving tasks and expose workers to oncoming traffic.

Some inadequate traffic control measures that have led to worksite traffic accidents include:

- Inadequate advance warning
- Inadequate and inappropriate signs and messages
- Confusing messages
- Inadequate guidance through the work zone
- Conflicting pavement markings
- Unprotected hazard such as shoulder drop offs

Whenever project sites under Terracon control will disrupt vehicle traffic or expose Terracon personnel to the hazards of vehicle traffic, (i.e., work on an active roadway, including shoulders) adequate traffic control measures must be implemented.

Terracon's preferred method for implementing traffic control is to request that clients assume this responsibility. Where clients refuse to assume responsibility, Terracon will attempt to sub-contract the service to a reputable traffic control firm. Terracon personnel with no training or experience in traffic flagging or the placement of traffic control devices such as signs, barricades

or flashers are prohibited from engaging in traffic control operations unless directed by a trained and experienced individual.

Project-Specific Traffic Control Requirements

The Project Manager will be primarily responsible for assuring that traffic control measures utilized on the various compressor station project sites (where applicable) are in accordance with Department of Transportation requirements. All Terracon personnel working within 10 feet of an active roadway will wear ANSI Class III traffic safety vests as the outermost garment. All Terracon field personnel will participate in site traffic control briefings with affected field representatives where requested.

16.0 MOTOR VEHICLE SAFETY

Vehicles must be periodically inspected in accordance with Terracon motor vehicle operations policies. Any vehicle found to be unsafe shall not be operated and shall be removed from service until it can be repaired or serviced and rendered safe. Driving at the maximum posted speed limit can be too fast for safety in some situations.

Drivers shall use good judgment and proceed at a speed suitable for the conditions of the vehicle, road, traffic, and weather. Vehicles are not to be moved until all passengers are properly seated inside the vehicle. All operators and passengers must use seat belts and shoulder harnesses, if the vehicle is so equipped.

Before driving, all windows should be cleared of any materials such as frost, mud, or dew that may reduce visibility. Drivers should not engage in distracting activities while a vehicle is in motion. The vehicle should be pulled over to the side of the road and stopped when performing activities such as dialing or using a mobile telephone or taking notes. If the phone rings while driving, let the cellular voice mail service take the call and listen to the message later when you are parked.

Vehicles should be properly parked. When possible, they should be parked so that no backing is required when leaving, unless doing so creates a greater hazard. Where backing is required when leaving a location, the driver shall walk around the vehicle prior to backing and inspect the area for any potential obstructions, or use a spotter. Hazard lights shall be utilized when parking on a road shoulder. Bridge load limits should be reviewed and a preapproved route established prior to transporting heavy equipment over county road bridges.

Items carried inside the vehicle should be secured to prevent them from being thrown about in event of emergency braking or sharp maneuvers. Items that cannot be secured must be carried in an enclosed trunk or luggage compartment that is physically separated from the passenger area.

All large tools should be carried outside the cab of the vehicle and be properly secured. All fittings, tools, supplies, equipment, and other cargo carried on cargo beds or in the back of trucks must be properly secured and restrained.

17.0 WORK AROUND OPEN WATER

Work around open water and boats presents an unstable surface that may lead to falls and potential for drowning or injury. The following safety precautions are required. The "buddy system"

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Terracon

shall be used during all sampling tasks. Within 6 feet of unguarded water more than 3 feet deep, workers will don USCG Type III, V, or better personal floatation device (PFD) with retro reflective tape worn by all personnel aboard boat at all times. The maximum capacity (weight and passenger number) of the boat shall not be exceeded at any time (this number is listed on the boat tag). Workers should be cautious when boarding and keep weight toward center of boat. Personnel will not stand in the boat when underway. All equipment must be secured to the boat or securely stowed during transit. Appropriate footwear should be worn when it is necessary to access the shoreline by wading, and nonskid footwear must be worn on board. Employees should dress appropriately for the weather (sunscreen must be worn when sunburn is a threat). The boat must always proceed at a safe speed, under control, and ready to stop within a safe distance. A ring buoy with at least 90 feet of line shall be provided and readily available for emergency rescue operations. In open water areas, at least one life saving skiff shall be immediately available.

Hip waders shall be worn when sampling in shallow waters without a boat to safe guard against stepping on a deep hole or getting stuck in the mud. A PFD should be worn with the waders if you cannot always see to bottom. Use the "buddy system" but keep some distance apart when walking from point A to point B to reduce the risk of both people at the same time stepping in a deep hole. A ring buoy with at least 90 feet of line shall be provided and readily available for emergency rescue operations. If working in a small area close to shore, secure the worker with safety line and harness with the line tended by a second person on shore.

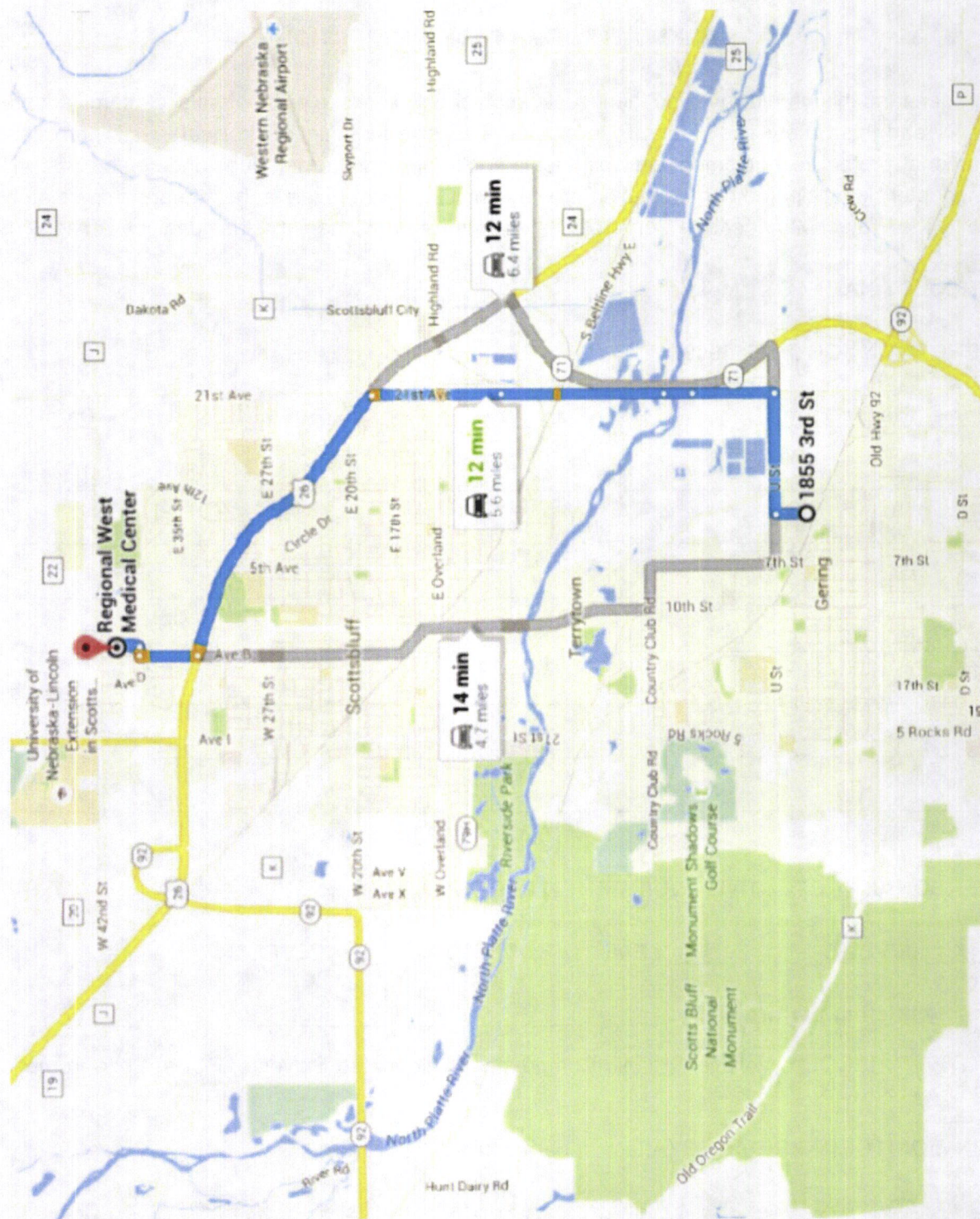
MAP TO HOSPITAL

Site Safety and Health Plan

City of Gering ■ B&T Metals

June 25, 2016 ■ Terracon Project No. 05159093

Terracon



Responsive ■ Resourceful ■ Reliable

ACKNOWLEDGMENT OF INSTRUCTION

I understand this project involves the investigation of a project site with potential contamination. I have read this Safety and Health Plan and have received instructions for safe work practices, personal protective equipment and air monitoring requirements. I further understand that if I encounter unanticipated contamination or site conditions I am to leave the site and immediately notify the Project Manager and Corporate Safety and Health Manager of the conditions observed.

PROJECT NAME: B&T Metals

TERRACON JOB #: 05159093

<u>Name (Please Print)</u>	<u>Signature</u>	<u>Date</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
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_____	_____	_____
_____	_____	_____

PERSONAL PROTECTIVE EQUIPMENT UTILIZED:

 X LEVEL D LEVEL D MODIFIED LEVEL C

Safety briefing performed by: _____ Date: _____

POTENTIAL COCs: Volatile Organic Compounds, Chlorinated Solvents, PCBs, Poly-Aromatic Hydrocarbons, RCRA Metals

AIR MONITORING RESULTS (Attach separate page if required)