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March 23, 2022

Stephanie Branche
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USEPA Region III
1650 Arch St
Philadelphia, PA 19103

RE: Phase II Environmental Site Assessment
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike
Lynchburg, Virginia
Draper Aden Associates Project No. B12188B-10HM

Dear Ms. Branche and Mr. Geiger:

Draper Aden Associates (DAA) completed a Phase II Environmental Site Assessment (ESA) at the former Intermet Site / Lynchburg Foundry Site (subject property) located at 1651 Concord Turnpike in Lynchburg, Virginia (Figure 1). The Economic Development Authority (EDA) of Lynchburg, Virginia, purchased the subject property in 2009. The EDA requested that DAA conduct a Phase I ESA (dated August 2021) and subsequent Phase II ESA described herein. DAA conducted the Phase II ESA in conformance with the scope and limitations of ASTM Practice E 1903-19 to facilitate subject property redevelopment as part of the EDA's economic revitalization initiative.

The Phase II ESA was completed under a United States Environmental Protection Agency (USEPA) Brownfields Assessment Grant, received by the EDA. The Phase II scope of work was developed based on the findings presented in the August 2021 Phase I ESA. The primary focus of this assessment was to evaluate the following recognized environmental conditions (RECs) identified in the Phase I ESA report described below within current allocated grant funding. As of the date of the field work, the subject property was primarily open, vacant land. Identified RECs include likely impact to the subject property from historical foundry operations and on and off-site sources as described in Section 1.0.

Twenty-eight (28) grab soil samples were collected from 14 boreholes and two (2) groundwater samples were collected from temporary groundwater wells installed as part of this Phase II. Samples were analyzed for constituents of concern (COCs) defined based on RECs as outlined further below. Since redevelopment plans remain fluid, soil results were compared to USEPA residential and industrial risk-based Regional Screening Levels (RSLs); groundwater results were

compared to USEPA drinking water maximum contaminant levels (MCLs) or USEPA RSL tap-water standards.

Significant Findings

In general, limited COC detections were observed across the site in both surface and subsurface soil samples and groundwater samples collected.

Data Findings

- Heavy petroleum odors and elevated PID readings were observed in soil sample B8 at 1,625 ppm at 10 feet below surface grade and in B12 at 396 ppm at 15 feet below surface grade, but corresponding analytical data did not indicate significant impact. No petroleum impact was identified in soil or groundwater.

- Inorganic and SVOC concentrations greater than RSLs were primarily observed in surface and shallow soil samples collected.

- Of the limited number of VOCs detected in soil, no concentrations were greater than residential or industrial RSLs.

- Polychlorinated biphenyls (PCBs) were not detected above the laboratory detection limit in the eight soil samples collected from surface and subsurface locations.

- Inorganics and SVOCs concentrations, primarily in soil samples B12 and B8, may require special handling based on future site re-use. Field observations such as odors and elevated PID readings were also observed in B8 and B12.

- Based on subsurface soil and groundwater data collected at the site, there is no indication of impact that is likely to result in a vapor intrusion condition. Depth to groundwater, since greater than 15 feet, also supports limited vapor migration would occur with the potential to result in a vapor intrusion condition if buildings were constructed on site.

- Two active rail lines remain including one at grade with the site and lie directly adjacent. This assessment cannot evaluate potential impact from on-going and continued rail use including potential for particulate deposition, contaminated sediment migration, and surface or subsurface releases.

This assessment was conducted using available grant funding and as such, data gaps remain. This assessment does not represent an exhaustive site characterization and the potential for areas with higher concentrations (i.e., hot spots) cannot be eliminated. A comprehensive Phase II

ESA is not stated nor implied. Phase II ESA findings do not preclude site redevelopment; however, findings should be incorporated into site redevelopment planning and site worker health and safety relative to the known planned redevelopment. The sample design was based on allocated grants funds and a comprehensive site evaluation was not conducted nor implied. Additional sampling is recommended if additional data gap evaluation or additional information is desired for a more comprehensive understanding of current site conditions as part of redevelopment planning. Residential use is not recommended without removal or capping of the surface soil in open areas where exposure to human receptors is planned in the conceptual design of the site.

The following presents a summary of the Phase II ESA activities and findings. Attachment 1 presents figures illustrating the subject property. Attachment 2 presents tables summarizing analytical data. Attachment 3 includes field notes, SOPs and other field documentation. Attachment 4 includes laboratory data and data validation. Throughout this report, "current" is used to reference site conditions as of the date of the field work.

The following report presents in further detail the activities completed, an evaluation of information and data obtained, and findings and conclusions resulting from this effort.

1.0 STATEMENT OF OBJECTIVES

The objectives of this Phase II ESA were to evaluate soil and groundwater conditions at the subject property with respect to recognized environmental conditions (RECs) identified during the Phase I ESA completed in May 2021. DAA conducted this Phase II ESA in accordance with the project specific Sampling and Analysis Plan (SAP), the Quality Assurance Project Plan (QAPP) prepared for the EDA's Brownfields Redevelopment Program and *ASTM 1903-19 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process* following the design of the project scope as detailed in the SAP was prepared using budgeted resources allocated for this effort.

The following summarizes the scope and results of the Phase II ESA. RECs defined in the Phase I ESA and evaluated as part of this Phase II ESA include the following:

- ***REC 1*** – Potential impacts from historical operations/improper handling and/or disposal through on-site drains or other areas associated with use as a foundry for over 100 years; potential for fill from unknown sources; and possible petroleum impacts from on and off-site sources.

- ***REC 2*** – Potential impacts from historical rail line use on and near the subject property with the potential for constituent migration onto the subject property (e.g., PCBs and heavy metals).

- **REC 3 -** Potential impact from a petroleum release (documented in 2010) at the adjacent CSX railroad that may have originated from releases on or near the subject property including known petroleum storage directly upgradient of the site at the 1800 Garnet Street warehouse site (also formerly associated with the Foundry).

- ***REC 4*** – Potential impacts from adjacent industrial operations including the Westrock (former RockTenn facility), which lies cross-gradient with respect to groundwater flow and upgradient topographically. Known spills and releases are associated with the Westrock facility.

- ***VEC 1*** – Based on known releases and undefined historical petroleum storage adjacent to and in the vicinity of the site a vapor encroachment condition was identified as part of the Phase I ESA.

The following details the sampling and analysis design and results of the Phase II ESA.

2.0 SITE INFORMATION

The approximately 6-acre subject property is located at 1651 Concord Turnpike in Lynchburg, Virginia, Parcel ID 04720005. A Site Location Map is presented as Figure 1. The subject property is owned by the City of Lynchburg.

2.1 Project Area/Site Description

The subject property is located within the corporate limits of the City of Lynchburg, Virginia. The site and vicinity characteristics are presented on Figures 2 and 3. The parcel is cleared of site structures and a portion of the site is currently used for surface storage of materials (i.e. construction debris). Discarded debris is also present on a small portion of the northern part of the property. The shape of the property is nearly rectangular with the long edge paralleling the James River to the north. The parcel is a thin strip of land running from northwest to southeast and whose northeastern and southwestern borders are the longest portions of the property. Property development in the vicinity of the site is a mix of industrial, residential, and railroad properties. Topographically, the site slightly slopes on a shallow grade to the east, and its western edge is the highest elevation. The historical City center is west of the subject property, with steeply sloping topography towards the James River. Garnet Street lies to the north and Concord Turnpike is east of the subject property; the site can be accessed from both roadways.

The Lynchburg Foundry Company Lower Basin Plant is located beyond Garnet Street to the north, and the James River is approximately 150 feet to the east beyond Concord Turnpike. The site is bordered by active CSX railroad tracks along the southwestern boundary and the

WestRock Converting Company to the south. Adjacent property to the south includes a former warehouse building, fronting Garnet Street, associated with prior site use.
The site access is unrestricted. At the time of this assessment, the subject property included a chain-link fence around the central portion of the northern part of the property where material and debris are stored. The chain-link fence has since been removed. Based on historical documents reviewed as part of the Phase I and in preparation for this Phase II sampling effort, the former historical buildings on-site were constructed beginning as early as 1885. Currently only cut bollards at the entrances from Concord Turnpike remain. The property is accessible by entranceways from Garnet Street and Concord Turnpike as shown in Figure 2.

This area of Lynchburg is serviced by public water, sewer, and electricity. Electrical and water utility structures were visible adjacent to and near the site. The City of Lynchburg's ParcelViewer showed that a water main is within the property boundary and extends across the northernmost end of the property. Four fire hydrants are located on the boundary of the site on Garnet Street and Concord Turnpike. A stormwater gravity main also extends along the property's southern border between the property boundary and the railroad tracks. No information was found regarding historical utilities, although an oil house was depicted on historical mapping.

2.2 Site History/Adjacent/Vicinity Property History

Historical use information was utilized in the development of the Phase II SAP. Information provided below was obtained during the Phase I ESA. No new information was identified. A Phase I and Phase II ESA were also completed for the adjacent property (1800 Garnet) that was previously part of the overall Foundry property (including the subject site). Since that information was collected under the same EDA Brownfield's grant program, data were referenced herein as part of this site data evaluation.

Site History

The subject property operated as a foundry for over 110 years and likely industrial use for over 135 years. An overlay of the 1967 Sanborn map was added to Figure 4 to illustrate the relative location of operation as the Foundry. First developed use could not be determined; however, the southern portion of the site in 1885 was used as storage for a planing mill and a sumac mill. Richmond and Alleghany rail line spurs were depicted south of the mills on-site. From 1890 until 1895, Lynchburg Spoke Works operated on the northern portion of the site. The first use of the site as a foundry was 1902 as the Lynchburg Plow Co., and then from 1907 until the early 1990s as the Lynchburg Foundry Co. Foundry activity is associated with air pollutants such as benzene and hazardous waste products that can include heavy metals, cyanides and phenolics. The foundry property also included a blacksmith area, chemical engine, and laboratory with associated hazardous contaminants. Use of the former rail spur also has the potential to impact the subject property. The site was used for industrial purposes as the Intermet Corporation site

in the 1990s and cleared in the early 2000s and has since been used for storage of stockpiled construction materials.
The oil house depicted at the northeastern boundary at the central portion of the site along Concord Turnpike (1965 FIMs until 1973 FIMs) has potential to impact the subject property from a former undocumented release. The oil house pre-dates regulatory requirements for registration and spill prevention. No documentation of oil tank removal on-site was identified.

A potential for impact exists to the subject property due to the length of use as a rail spur line on-site (1951 FIMs until 1973 FIMs) and potential use and undocumented release(s) of hazardous substances and/or petroleum products associated with railroad activities. Residual soil impact was documented in this area. These impacts may include but are not limited to: wood-treating chemicals including creosote from railroad ties; spilled or leaked oil, gasoline, or diesel fuel; residual herbicides; fossil fuel combustion products such as polynuclear aromatic hydrocarbons (PAHs) from the diesel exhaust; arsenic from herbicides, wood preservatives, and fossil fuel combustion; transformers and capacitors used in trail controls; and mercury from combustion or leaking gauges.

Adjacent/Vicinity Property History

North
Vicinity properties north of the subject property historically included industrial activity. Sanborn maps from 1890 show the J. T. Yates Cooperage, J.H. Kinnier Coal, Wood, and Ice Company, and Lynchburg Iron Company beyond. Oil tanks and coal sheds were associated with some of these industries, and petroleum products and coal particulates could pose an environmental hazard if spillage occurred for which no regulatory oversight existed at the time. A lumber company came into existence north of the subject property following the coal company.

East
The eastern vicinity property has been the James River since the 1885 Sanborn Maps until present. An approximately half-mile long island in the river has been used for industrial purposes since 1885 Sanborn Maps, with the Norfolk and Western rail line depicted connecting the western side of the River to the eastern side.

South
The southern vicinity of the subject property operated as the J. H. Heald Company's Bark Extract works based on the 1885 to 1907 Sanborn Maps. The company then became the Mead Corporation (paper stock) complex based on Sanborn maps covering a period from 1951 to 1973. Aerial maps covering a period from 1947 to 2018 confirm this observation. Twenty-six (26) spills listing and reported leaking tanks were recorded for this property (under WestRock Converting Company and Rock-Tenn Company).

West

The western vicinity of the subject property was primarily industrial based on Sanborn maps covering a period from 1890 to 1973. A building is depicted in the 1902 Sanborn Map beyond the Chesapeake and Ohio railroad and the canal, connected by a bridge to the subject property. Oil tanks in the corner where the building extension meets the southern main wall on the southern end of the property first appeared in the 1951 Sanborn map and subsequent Sanborn maps. The oil tanks appear to be on railroad property.

An electrical substation was constructed approximately 500 feet west of the subject property by 1967 based on the associated Sanborn map. Because PCBs had not been banned at the time of its construction, the electrical substation might pose an environmental risk. Buildings and rail are located between the electrical substation and the subject property and may therefore obstruct surface runoff.

Assumed groundwater flow beneath the subject property is northeast towards the James River however, actual groundwater flow direction beneath the subject property may differ from surface topography due to unknown subsurface features (i.e., clay layers, bedrock fractures, bedrock pinnacles, etc.). This general characterization of groundwater flow is based on an assumption of relatively simple subsurface aquifer conditions and that the James River acts as a primary control of local groundwater flow. Facilities located northeast of the subject property are lower in elevation and are therefore considered unlikely to have an impact on the subject property. Facilities located cross-gradient to the site are also not likely to result in migration toward the subject property. Groundwater flowing from properties northwest of the subject property may impact the property because these adjacent and vicinity properties are at higher elevations and groundwater likely flows to the James River.

Future Site Use

The subject property is currently vacant and re-development options are being explored and may include residential and/or commercial/industrial development.

Prior Assessments

A Phase I ESA was completed in May 2021. The Phase I ESA included file review of available regulatory files for the subject property and vicinity. A site characterization and initial abatement report were completed in 2010 in response to a petroleum release identified on or near the subject property on the railroad tracks. Petroleum storage associated with the adjoining property's prior use was identified as a potential source for the documented release. Additional details regarding this release were presented in the Phase I ESA.

3.0 PROJECT SCOPE

The Phase II ESA work scope included soil and groundwater sample collection to evaluate environmental data deemed representative of current site conditions. More specifically, the project scope was to assess environmental conditions of soil and groundwater in the context of past activity on and off-site in order to determine whether concentrations of chemical constituents in soil and groundwater at the subject property exceed residential and industrial RSLs, and to determine the need for additional assessment or remedial action and/or exposure controls.

This Phase II ESA was conducted in accordance with ASTM 1903-19 – Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process. A drilling subcontractor was utilized for soil boring advancement and to install temporary monitoring wells. Samples were analyzed by a laboratory accredited under the Virginia Environmental Laboratory Accreditation Program (VELAP) for the associated matrix, method and analyte.

4.0 SUMMARY OF SITE CONCEPTUAL MODEL AND RATIONALE

The site conceptual model identified soil and groundwater as the most likely media for potential impact. Based on the size of the subject property, potential impacts from historical operations were anticipated throughout; however, sample locations were selected based on likely areas of highest concentrations (i.e., likely areas of former releases) or locations of likely migration. This assessment focuses on the RECs based on likely or known releases from former use of the subject property as part of foundry operations, including prior petroleum storage at the adjoining warehouse building as well as sources from railroad operations. Soil and groundwater sampling locations (Figure 5) were strategically located within areas of concern and assumed groundwater flow paths within the property boundary. The sampling design was based on allocated grant funds.

Based on topographic mapping, underlying geology, and site observations, the assumed groundwater flow direction beneath the subject property is northeast towards the James River. The temporary monitoring wells were located on the central portion of the site to evaluate potential impacts from on and/or off-site sources (such as the former foundry operations on-site and potential impacts from off-site releases). See Section 6.3 regarding additional discussion regarding assumed groundwater flow. Shallow groundwater was anticipated to reside at the bedrock/overburden interface. Estimated groundwater elevation data supported the assumed flow direction.

Based on the nature and types of historic activities at the subject property and vicinity sites, the USEPA Target Analyte List (TAL), which includes a suite of volatile organic compounds (VOCs), semi-volatile organic compounds including polycyclic aromatic hydrocarbons (SVOCs/PAHs),

inorganic parameters, and/or polychlorinated biphenyls (PCBs) was chosen for soil and groundwater. These analyses provide a comprehensive evaluation for potential impact from historical on and off site uses and are considered the constituents of concern (COCs) for the subject property. The rationale for these locations is presented in Table 1 in the following section.

Detailed discussion of the site conceptual model and rationale for the assessment activities is presented in the SAP.

5.0 FIELD INVESTIGATION AND SAMPLING ACTIVITIES

The field investigation was conducted in accordance with the project-specific SAP and the QAPP prepared for the EDA's Brownfield Redevelopment Program. The field investigation was conducted in accordance with the sample design detailed in Table 1-1 for soil and Table 1-2 for groundwater (Attachment 2) and SOPs defined in the SAP. Field documentation is included in Attachment 3 (Field Notes). Field activities were conducted under a site-specific health and safety plan (Attachment 3), which identified personal protective equipment (PPE) needed based on the anticipated site hazards. Subsurface drilling was initiated after completion of a utility mark-out that included public marking under Miss Utility of Virginia and boreholes were cleared by a private subsurface utility contractor on the day drilling occurred.

DAA conducted the field investigation October 20 and 21, 2021. DAA collected twenty-eight (28) grab soil samples. The activities included direct-push soils logging and sampling from fourteen (14) soil borings and the installation, development, and sampling of two groundwater monitoring wells within BMW1 and BMW2 borings. Field screening results are provided in Table 1 and in Attachment 3 (Field Notes). Soil borings and groundwater monitoring wells were located in accordance with the rationale provided in in the SAP and are shown on Figure 5. Soil borings and monitoring wells were located in accordance with the rationale provided in the SAP, with exceptions noted in Section 8.1, and soil samples were collected from depth intervals consistent with the SAP.

5.1 Direct-Push Soil Sampling and Field Screening

Davidson Drilling of Roanoke, Virginia, advanced fourteen (14) soil borings (B1 through B12, BMW1 and BMW2) within the subject property on October 20 and 21, 2021, using a Geoprobe direct-push sampling rig to approximately 15 feet bgs or to auger refusal. Soils recovered from the direct-push sampler barrel were observed, logged, and field-screened. Evidence of impact (free-product, staining, sheen, and/or odor) was observed in select soil borings and noted on Table 1-1.

A photoionization detector (PID), calibrated prior to field screening activities, was used during

soil sample collection field activities to assist in identification of potentially impacted soil horizons. Soils collected from each boring were field screened with the PID for the presence of volatile compounds. As shown in the attached boring logs, DAA logged each soil boring by recording the depth interval, recovery, soil description, and PID screening results. It should be noted that heavy odors and elevated PID readings were observed in B8 at 1,625 ppm at 10 feet below surface grade and in B12 at 396 ppm at 15 feet below surface grade.

Twenty-eight (28) grab soil samples, two project-specific matrix spike, and two project-specific matrix spike duplicate samples were collected from specified depth intervals into laboratory-provided containers specific to the type of analysis being performed. For each analytical method, a project specific MS and MSD were collected at a rate of one per 20 samples submitted for analysis). Additionally, a laboratory supplied trip blank (VOCs only – water) was submitted for laboratory analysis for the soil and the groundwater monitoring effort for each day of VOC sample collection. Sample collection IDs, boring locations, final sample depths, rationale and respective chemical analyses are also detailed in Table 1-1 and 1-2.

5.2 Monitoring Well Installation and Development

Borings BMW1 and BMW2 were completed as a temporary two-inch monitoring wells during field investigation activities on October 21, 2021. The monitoring well was constructed of 2-inch Schedule 40 PVC riser with five feet of 2-inch, Schedule 40 PVC, 0.010-inch-slot pre-pack screen. The well was completed in accordance with the SAP. Although considered temporary, the wells were completed with a flush-mount monument set into a neat cement in the event that additional sampling events are required (not within the scope of work of this Phase II ESA). Boring logs with as-built well completion documentation are presented in Attachment 3. Well completion depth, depth to water and groundwater sample analyses are presented in Table 1-2.

On October 25, 2021, DAA developed the monitoring well using a dedicated disposable submersible pump. The well was purged until field parameters stabilized in accordance with the SAP or the well was purged to dryness.

5.3 Groundwater Sampling

On October 27, 2021, DAA collected a groundwater sample from each well using a new decontaminated submersible low-flow pump using low flow sampling techniques. The groundwater samples were collected through dedicated tubing using a dedicated pump with low flow capability. Collection of groundwater samples after field parameter measurements (temperature, dissolved oxygen, pH, conductivity, turbidity, and oxidation/reduction potential) had stabilized (as measured using a calibrated Myron-L meter) was accomplished using low-flow sampling. Two groundwater samples, one project-specific matrix spike, and one project-specific matrix spike duplicate were collected and submitted for laboratory analysis along with a laboratory supplied trip blank (VOCs only – water). Collected samples were placed into

laboratory-provided containers specific to the type of analysis being performed. Sample collection IDs and respective chemical analyses are detailed in Table 1-2. The chain-of-custody and groundwater sampling records are included in Attachment 3. Well abandonment was conducted on March 11, 2022.

An equipment blank was sampled prior to and subsequent to sampling BMW1 and BMW2. Sample collection equipment was pre-cleaned prior to sampling. Sample collection IDs, boring locations, sample depths, and respective chemical analyses are detailed in Table 1-1 for soil and 1-2 for groundwater included in Attachment 2.

5.2 Investigation-Derived Waste

Investigation-derived wastes (IDW) were containerized, labeled, and stored on-site for evaluation of disposal options. The IDW included soil cuttings, PPE debris, and purge water generated during soil and groundwater sampling. Laboratory results for soil and groundwater indicate that the IDW drums may be managed as non-hazardous waste (See Attachment 4 – Analytical Results).

Six (6) of the IDW drums containing soil and purge water from the Phase II ESA field work were removed from the site prior to planned IDW disposal. The drums were staged in an area of lower public visibility behind the chain linked fenced area storing construction materials. Planned IDW disposal was not conducted and DAA is currently following up with the City of Lynchburg.

6.0 PHYSICAL CHARACTERISTICS

A review of physical characteristics of the subject property was presented in the Phase I ESA. Based on the known physical characteristics, groundwater was anticipated to be encountered within 15 to 20 feet from the ground surface. Depth to groundwater during drilling was encountered at 17 feet and is consistent with the anticipated depths. No perched water was encountered. Deeper, confined aquifer drilling is beyond the scope of this assessment. Groundwater flow direction in the uppermost aquifer underlying the subject property is assumed. Based on topographic mapping, underlying geology, and site observations, the assumed groundwater flow beneath the subject property is northeast towards the James River.

Based on the published soil survey map for the area, the site soils underlying the subject property are identified as Urban Land. The Urban Land map unit indicates that the original soils have been disturbed and that buildings and/or pavement cover a significant portion of the land which is consistent with prior site use. The potential to encounter fill or improper/unregulated disposal was considered as part of this assessment. Fine black sands, coal char, crystalline looking features and gravel fill were present in all of the borings advanced, ranging from depths

of 0 to 15 ft bgs. Tight clays were observed from 8-15 ft bgs in B4, which appears to be native in situ soil that can be representative of background conditions in B4-2.

Topography of the site slopes slightly downward to the northeast toward the adjacent Concord Turnpike. Storm water likely flows along the topographic gradient and flows northeast towards Concord Turnpike at the eastern boundary of the subject property. Surface and stormwater flow pathways were considered as it relates to particulate and sediment migration from offsite sources including the railroad where COCs may be transported and deposited on the site. No erosion or channeling was observed, and surface/stormwater likely moves as sheet flow ultimately infiltrating the surface on unpaved areas.

7.0 LABORATORY ANALYSIS

Soil and groundwater samples were submitted by overnight courier to Pace Analytical Services (formerly Shealy Environmental) of West Columbia, South Carolina and Eurofins Lancaster Laboratories Environmental, LLC, (ELLE) of Lancaster, Pennsylvania, for specified chemical analyses. Each laboratory is accredited under the Virginia Environmental Laboratory Accreditation Program (VELAP); VELAP documentation is included in Attachment 4. The soil and groundwater samples were collected in the following order, where applicable, and analyzed for the COCs indicated in Table 2.

- TAL VOCs;
- TAL SVOCs/PAHs;
- TAL Total inorganics – total including Cyanide; and
- TAL PCBs.

Trip blanks were analyzed for VOCs only. Constituents were analyzed using SW-846 Test Methods 8260 (VOCs), 8270 (SVOCs), 6020/7470/7471/9012B inorganics, and 8082 (PCBs) (see certificates of analysis for analytical and sample preparation methods used). Final analytical results were received by DAA on December 7, 2021. Copies of the laboratory data certificates, and chains-of-custody documentation are included in Attachment 4.

7.1 Data Validation/Reconciliation

Data generated during this Phase II ESA were of an appropriate quality for use and data were validated following the procedures outlined in the SAP. The results of the data validation were presented in the data validation report included in Attachment 4. Data that did not meet the Data Quality Objectives (DQOs) established in the SAP were qualified. Data qualification flags provided in Tables 2, 3, 4 and 5 indicate if results are considered estimated or rejected based on data validation. No data were rejected.

7.2 Summary of Analytical Results and Comparison to RSLs

7.2.1 Soils

Soil samples collected and analyzed ranged in depth from 0 feet to 15 feet bgs. Tables 2-1, 2-2, and 2-3 present all results from soil sample analyses and Tables 3-1, 3-2, and 3-3 present a summary of constituents detected in soil samples at concentrations greater than their respective method detection limits (MDLs) (Attachment 2). Soil analytical results were compared to USEPA residential and industrial risk based RSLs only to evaluate the residual risk of detected constituents. Data greater than residential and industrial soil RSLs are highlighted on Tables 3-1, 3-2, and 3-3. A summary of constituents detected in soil is presented below.

- Inorganic constituents were observed in all samples submitted for inorganic analyses. Of those:
    - Arsenic was detected at concentrations ranging from 0.66 mg/kg to 39 mg/kg. Sixteen (16) soil samples contained arsenic greater than the industrial RSL of 3.0 mg/kg. Naturally occurring regional arsenic concentrations can range up to 30 mg/kg (Vosnakis and Perry, 2009). The soil sample with the highest arsenic concentrations was B7-2 from sampled from 10 feet to 12 feet in depth at 39 mg/kg. The remainder of the soil samples containing arsenic greater than the industrial RSL ranged from 3.4 mg/kg to 11 mg/kg and are considered generally diffuse throughout the subject property and are consistent with naturally occurring regional concentrations.

    - Cobalt, iron, manganese and cyanide were detected at concentrations greater than their respective residential RSLs. Soil sample B8-1 from 1 foot to 2 feet in depth contained cyanide at 160 mg/kg, greater than the industrial RSL of 150 mg/kg.

    - No other inorganic constituents were detected at concentrations greater than their respective residential or industrial soil RSLs.

- Minor detections of volatile organic compounds (VOCs) were observed in soil; however, none were above their respective residential and industrial soil RSLs.

- Detections of semi-volatile organic compounds (SVOCs) were observed in soil. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-c,d)pyrene; and dibenzo(a,h)anthracene were detected at concentrations greater than their respective residential RSLs. Soil sample B8-1 from 1 foot to 2 feet in depth contained benzo(a)pyrene at 22 mg/kg, greater than the industrial RSL of 2.1 mg/kg, and benzo(b)fluoranthene at 27 mg/kg, greater than the industrial RSL of 21

mg/kg. Soil sample B12-1 from 0 to 1 foot in depth contained benzo(a)pyrene at 4.1 mg/kg, greater than the industrial RSL of 2.1 mg/kg.

- PCBs were analyzed in four borings (B1, B2, B4, and B7) and two samples were collected from each borehole to assess both surface and subsurface conditions (possible fill/disposal). PCBs were not detected above the laboratory detection limit in the eight soil samples analyzed.

7.2.2 Groundwater

Table 4 presents all results from groundwater sample analyses and Table 5 presents a summary of constituents detected in groundwater samples at concentrations greater than their respective laboratory method detection limits (MDLs). Groundwater analytical results were compared to USEPA Maximum Contaminant Levels (MCLs) and tap water RSLs to evaluate the residual risk of detected constituents. Both the MCL and tap water RSL are drinking water standards; however, this area is serviced by public water and shallow groundwater is not used as a drinking water source. A summary of constituents detected in groundwater is outlined below.

- No inorganic constituents were detected at concentrations greater than their respective MCLs or tap water RSLs. All groundwater samples were collected as total.

- No volatile constituents (VOCs) were detected above the MCL or tapwater RSL. No VOCs were detected at or above the laboratory detection limit, except for 1,1-dichloroethene reported at an estimated concentration of 1.5 J ug/l in MW1/BMW1 below the MCL of 7 ug/l.

- No SVOCs/PAHs were detected at concentrations greater than their respective MCLs or tap water RSLs except for 1,4-dioxane. All detected SVOCs except for 1,4-dioxane were attributed to laboratory contamination. 1,4-Dioxane was reported as an estimated concentration of 0.57 ug/l in MW1/BMW1, just above the tapwater RSL of 0.46 ug/l.

MW1/BMW1 VOC results were estimated due to being analyzed outside of analytical holding time due to scheduling error when the lab had an abundance of 8260D samples.

8.0 CONCEPTUAL SITE MODEL VALIDATION/ADEQUACY OF INVESTIGATION

The site conceptual model identified soil and groundwater as the most likely media for potential impact from former on- and off-site activities. Soil and groundwater sampling locations were strategically located within likely areas of potential impacts from historical on-site and off-site operations and assumed groundwater flow path within the property boundary. Soil and

groundwater samples were collected as planned, except where noted below. Samples were analyzed for the COCs consistent with the planned methods.

8.1 Deviations

The following deviations were noted:

- Sample site B10-2 along with field duplicates, listed in the SAP, were not sampled due to budget constraints. Signs of olfactory impact and elevated PID readings were observed at the depth of 14 feet to 15 feet in boring B12; therefore, soil sample B12-3 was collected as a contingency sample for laboratory analysis. This is not considered a significant data gap.

- Boring locations were measured in the field based on benchmark features such as adjoining property buildings, rail lines, and roads. Since the site is a vacant, open field with no surface indication of previous foundry features, the boring locations were approximated based on 1967 Sanborn fire insurance map and other historical mapping. The 1967 Sanborn fire insurance map and other historical mapping measurements were compared to the current site conditions, and borings were placed as close to assess the SAP rationale locations as possible. Due to site access limitations and approximate field measurements of benchmark items, some borings did not meet the SAP rationale, as discussed below. Select deviations remain a data gap as noted below.

    - Locations achieved in general accordance with the SAP include borings B1, B2, B3 (slightly off-set due to northeast chain link fence corner), B7 (slightly off-set due to measurement of benchmarks in the field), B11 and B12 (slightly off-set due to stone pile). These locations assess the rationale detailed in the SAP Table 5.
    - MW1/BMW1 was located based on current site conditions including a locked chain link fence around the central portion of the site, where MW1/BMW1 was planned. MW1/BMW1 rationale was to assess potential impact from former "cleaning room"/machine shop, as well as impact from off-site sources as well (e.g., petroleum release), and near the current fenced material storage area. MW1/BMW1 was located next to the south face of the fence in an effort to get as close to the planned location as possible. The MW1/BMW1 location considered cross-gradient of the planned location but still in line with the initial rationale and is therefore not considered a data gap.
    - MW2/BMW2 was located based on current site conditions including measurements from Concord Turnpike and approximated measurements on the 1967 Sanborn map, where MW2/BMW2 was planned. MW2/BMW2 rationale was to assess potential impact within footprint of former foundry cleaning room. MW2/BMW2 was located in an effort to get as close to the planned location as possible. The MW2/BMW2

location considered cross-gradient of the planned location but still in line with the initial rationale and is therefore not considered a data gap.

- B4 was located approximately 50 ft south of the machine shop area to assess possible impacts, which was the SAP rationale. However, B4 is not considered a data gap because it assessed the planned B5 location.
- B5 was located approximately 50 ft south of the cupola bag house, which was the SAP rationale. B5 is considered a data gap because it did not assess possible impacts from the cupola bag house located within the footprint of the "greensand" foundry and drum storage area, however, B5 still provided general site data from non-specific sources.
- B6 was located approximately 50 ft south of cupolas, which were the SAP rationale. B6 is considered a data gap because it did not assess possible impacts from the cupolas, however, B6 still provided general site data from non-specific sources.
- B8 was located approximately 50 ft south of the cleaning and finishing area, which was the SAP rationale. B8 is considered a data gap because it did not assess possible impact within the cleaning and finishing area, specifically the "bag house, however, B8 still provided general site data from non-specific sources.
- B9 was located approximately 50 ft south of the "cleaning house" located within the footprint of the former carpenter shop and ladle repair area to assess possible impacts, which was the SAP rationale. However, B9 is not considered a data gap because it assessed the planned B10 location.
- B10 was located approximately 50 ft south of the planned area; however, B10 is not considered a data gap because it was placed in a general location to assess possible impact in area where railroad spurs diverged and potential unknown spills.

The COCs were selected to provide a comprehensive evaluation for potential impact from historical uses based on the identified Phase I ESA RECs. The constituents detected in soils are consistent with the RECs pertaining to on-site historical uses.

Shallow groundwater was encountered at the overburden/bedrock interface, indicating the monitoring well was appropriately located to monitor groundwater quality in the uppermost aquifer.

The results of this Phase II ESA support the sampling rationale and developed conceptual model. Based on the results of this assessment, the site conceptual model is considered to be valid, although data gaps remain as a result of the above deviations and considered significant to site evaluation.

9.0 SUMMARY OF FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

This assessment was conducted in accordance with generally accepted standards of environmental practice and the scope and limitations of ASTM E 1903-19. The specific activities described herein were completed in accordance with the designed sampling plan and budget allocated for this effort. Based on DAA's interpretation of the data, the objectives of this assessment (i.e., to assess soil and groundwater conditions relative to select RECs identified in the Phase I ESA as described above) were met. The findings and conclusions presented in this report apply only to the RECs assessed.

9.1 Findings

The purpose of this assessment was to evaluate RECs identified in the 2021 Phase I ESA report, primarily relating to the historical use of the subject property and adjacent properties, as well as documented historical petroleum releases off-site. The subject property is located in an industrial commercial-use area within the downtown Lynchburg area and was in industrial use for over 135 years. This area is supplied by public drinking water and sewer. Summary of the Phase II ESA findings is detailed below.

Soil

Soil samples analyzed were collected from depths ranging from 0 feet to 15 feet bgs. Direct push was advanced to 15 feet bgs or refusal at every boring location. During field activities, heavy petroleum odors and elevated PID readings were observed in B8 (former cleaning and fishing area) at 1,625 ppm at 10 feet below surface grade and in B12 (near the former cupolas) at 396 ppm at 15 feet below surface grade. SVOCs at concentrations greater than RSLs were observed in shallow soil samples collected from both of these boreholes.

Inorganic constituents were detected in all soil samples. Arsenic was detected in sixteen (16) soil samples contained arsenic greater than the industrial RSL in soil. B7-2 The soil sample with the highest arsenic concentration, 39 mg/kg, was B7-2 sampled from 10 feet to 12 feet in depth. Boring B7 was located to assess possible impact within the "cleaning and finishing" area/cleaning shop. Cobalt, iron, manganese and cyanide were detected at concentrations greater than their respective RSLs for residential soil.

SVOC detections were observed in site soils. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-c,d)pyrene, and dibenzo(a,h)anthracene were detected at concentrations greater than their respective residential RSLs. Soil sample B8-1 from 1 foot to 2 feet in depth contained benzo(a)pyrene at 22 mg/kg, greater than the industrial RSL of 2.1 mg/kg, and benzo(b)fluoranthene at 27 mg/kg, greater than the industrial RSL of 21 mg/kg. Boring B8 was located to assess possible impact within the

cleaning and finishing area, specifically the "bag house." Soil sample B12-1 from 0 to 1 foot in depth contained benzo(a)pyrene at 4.1 mg/kg, greater than the industrial RSL of 2.1 mg/kg. Boring B12 was located to assess possible impact within the footprint of the former shell foundry, near former cupolas.

No VOCs and PCBs were detected in soil at concentrations above USEPA residential or industrial RSLs.

Groundwater

Groundwater during drilling of a two monitoring wells was encountered at a depth of approximately 17 feet below ground surface. Depth to groundwater during sampling was measured at approximately 16.90 in MW2 to 17.90 in MW1/BMW1 feet below ground surface. No significant VOC concentrations were observed. The depth to groundwater being greater than 15 feet reduces the potential for vapor migration into future buildings.
Two grab groundwater samples were collected and analyzed for VOCs, SVOCs and total metals including cyanide. No inorganic constituents were detected at concentrations greater than their respective MCLs or tap water RSLs; all groundwater samples were collected as total. No SVOCs/PAHs were detected at concentrations greater than their respective MCLs or tap water RSLs except for 1,4-dioxane. All detected SVOCs except for 1,4-dioxane were attributed to laboratory contamination. 1,4-Dioxane was reported as an estimated concentration of 0.57 ug/l in MW1/BMW1, just above the tapwater RSL of 0.46 ug/l.

Groundwater at the site is not anticipated to be used as a drinking water source.

9.2 Comparison to Adjacent Property Data

A summary of results from the adjoining, topographically and hydrogeogically upgradient Garnet Warehouse property was considered when reviewing this data. The Garnet Street warehouse was formerly part of the foundry operations and included petroleum storage upgradient of the subject property. A Phase I ESA was completed for the warehouse site and similar RECs were identified as were identified for the subject property. Limited Phase II sampling at the warehouse included soil and vapor (groundwater was excluded).

Petroleum seepage on the adjacent CSX property was identified as a REC for both properties. The documented release was on railroad property between the two sites. For both Phase II ESAs neither petroleum saturated soil nor free product was not observed in samples collected near the assumed release area. Petroleum odors were observed in a boring on the Intermet site, but data did not reveal petroleum impact.

Large scale petroleum storage was identified in the historical record at the Garnet Street building. No known releases were identified. However, samples were collected downgradient of

the prior storage on both the warehouse property and Interment. No indication of petroleum impact from this potential source was identified. Vapor sampling at the warehouse did not reveal petroleum compounds at concentrations that would indicate vapor intrusion or vapor migration.

Similar to the Intermet site, total metals concentrations above RSLs were observed in soil samples. Low level PCBs were also detected on the warehouse property. The detections observed are attributed to likely runoff and particulate deposition from long term and on-going railroad operations.

9.3 Conclusions and Recommendations

DAA performed this Phase II ESA at the subject property described above located at 1651 Concord Turnpike in Lynchburg, Virginia, in conformance with the scope and limitations of ASTM Practice E 1903-19 and for the statement of objectives described above. Phase II ESA conclusions and recommendations are provided below.
The purpose of the Phase II ESA was to evaluate RECs as identified during the May 2021 Phase I ESA:

REC 1 – Potential impacts from historical operations/improper handling and/or disposal through on-site drains or other areas associated with use as a foundry for over 100 years; potential for fill from unknown sources; and possible petroleum impacts from on and off-site sources.

- In general, limited detections of COCs were observed across the site in both surface and subsurface soil samples and groundwater samples collected.

- Inorganic and SVOC detections greater than RSLs were primarily observed in surface and shallow soil samples collected.

- Of the limited number of VOCs detected in soil none were greater than residential or industrial RSLs.

- PCBs were not detected above the laboratory detection limit in the eight soil samples analyzed including surface and subsurface samples.

- Detections of VOCs and SVOCs were observed in deep soil and the groundwater collected from MW1/BMW1. However, no groundwater results were reported greater than the respective USEPA MCL drinking water standard or tap water standard except for 1,4-dioxane at an estimated concentration near the tap water standard. Public drinking water is supplied to the site.

- Petroleum impact was not identified from on-site historical use based on samples data collected (soil and groundwater).

REC 2 – Potential impacts from historical rail line use on and near the subject property with the potential for constituent migration onto the subject property (e.g., PCBs and heavy metals).

- Samples B4, B5, B8, and B12 were closest to existing and former rail lines. Data collected as part of this assessment indicated the presence of inorganic parameters and SVOCs in soil samples primarily in B12 and B8 that may require special handling based on planned site re-use. Field observations such as odors and elevated PID readings were also observed in B8 and B12.

- Statements regarding impacts from rail line use are based on current data collected as part of this assessment and consideration of now removed rail spurs from the site. Two active rail lines remain including one at grade with the site and lie directly adjacent. This assessment excludes assessment of potential impact from on-going and continued rail use including potential for particulate deposition, contaminated sediment migration, and surface or subsurface releases.

REC 3 – Potential impact from a petroleum release (documented in 2010) at the adjacent CSX railroad that may have originated from releases on or near the subject property including known petroleum storage directly upgradient of the site at the 1800 Garnet Street warehouse site (also formerly associated with the Foundry).

- Samples collected from B4 and B12 lie closest to the property boundary and near where the prior petroleum release is identified. Although a petroleum odor was observed in B12, observed detections of SVOCs were minimal and not greater than their respective industrial RSLs except for benzo(a)pyrene at 4.1 mg/kg, greater than the industrial RSL of 2.1 mg/kg in B12-1 from 0 to 1 foot bgs. Subsurface soil data collected as part of this assessment that were intended to help identify migration of petroleum COCs in soil from this off-site release did not indicate obvious presence of petroleum impact from the prior release.

REC 4 – Potential impacts from adjacent industrial operations including the Westrock (former RockTenn facility), which lies cross-gradient with respect to groundwater flow and upgradient topographically. Known spills and releases are associated with the Westrock facility.

- Based on subsurface soil and groundwater data collected at the site there is no indication of impact that is likely to result in a vapor condition. No evidence of disposal was observed in samples collected closest to the Westrock facility. Depth to groundwater, since greater than 15 feet, also supports limited vapor migration would

occur with the potential to result in a vapor intrusion condition if buildings were constructed on site.

VEC 1 – Based on known releases and undefined historical petroleum storage adjacent to and in the vicinity of the site a vapor encroachment condition was identified as part of the Phase I ESA.

- Based on depth to groundwater, soil data, and information from the adjacent Garnet Warehouse investigation a vapor condition does not likely exist for this site. However, if unidentified pockets or hot spots are revealed further consideration of vapor migration may be needed primarily as it relates to planned development.

Data Gaps

- Not all areas of the site were evaluated due to budget limitations. The sampling plan was developed to maximize sampling effort and to provide as much information as possible to evaluate RECs. This assessment did not fully eliminate the potential for hot spots or improper fill or disposal.
- Two active rail lines remain including one at grade with the site and lie directly adjacent. This assessment cannot evaluate potential impact from on-going and continued rail use including potential for particulate deposition, contaminated sediment migration, and surface or subsurface releases.

- An attempt to sample locations associated with prior operation was made using professional judgement. However, the information used was based on historical mapping that may have been inaccurate. This data gap is not considered significant at this time since the project area is relatively small and multiple borings were observed and sampled that provided coverage of the subject property.

- Herbicides and pesticides were excluded from this assessment due to budget constraints. However, with the proximity of active rail lines, the potential for the presence of such compounds is likely should be considered during ground disturbance or re-development.

Recommendations

These findings do not preclude future site redevelopment but should be taken into consideration for future site planning, site occupants and site worker health and safety. The potential for hot spots between sampling points cannot be eliminated.

The sample design was based on allocated grants funds and a comprehensive site evaluation was not conducted nor implied. Additional sampling is recommended if additional data gap evaluation or additional information is desired for a more comprehensive understanding of

current site conditions as part of redevelopment planning. Residential use is not recommended without removal or capping of the surface soil in open areas where exposure to human receptors is planned in the conceptual design of the site.

The potential for vapor migration condition is considered minimal. There are currently no structures on site. The presence of inorganic parameters and SVOCs in site soil may require special handing or additional sampling if disturbance including site grading, excavation, or removal are planned. Risk to human health and the environment from contact with soil for future use of the subject property based on samples collected is considered minimal with the exception of elevated metals and SVOC concentrations with surface/shallow samples in the areas around B7, B8 and B12 that may be present and disturbed during redevelopment. Special handling or disposal may be warranted if the surface material is disturbed.

This assessment does not represent an exhaustive characterization of the site and the potential for areas with higher concentrations (i.e., hot spots) cannot be eliminated. Phase II ESA findings do not preclude site redevelopment; however, findings should be incorporated into site redevelopment planning and site worker health and safety relative to the known planned redevelopment.
Thank you again for the opportunity to work on this project. If we can assist you further, please do not hesitate to contact us directly.

Sincerely,
DRAPER ADEN ASSOCIATES

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Project Manager

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Srikanth Nathella, P.E., Environmental Division Leader, Draper Aden Associates
Marjette Upshur, Director, City of Lynchburg, Office of Economic Development &Tourism

Attachments:

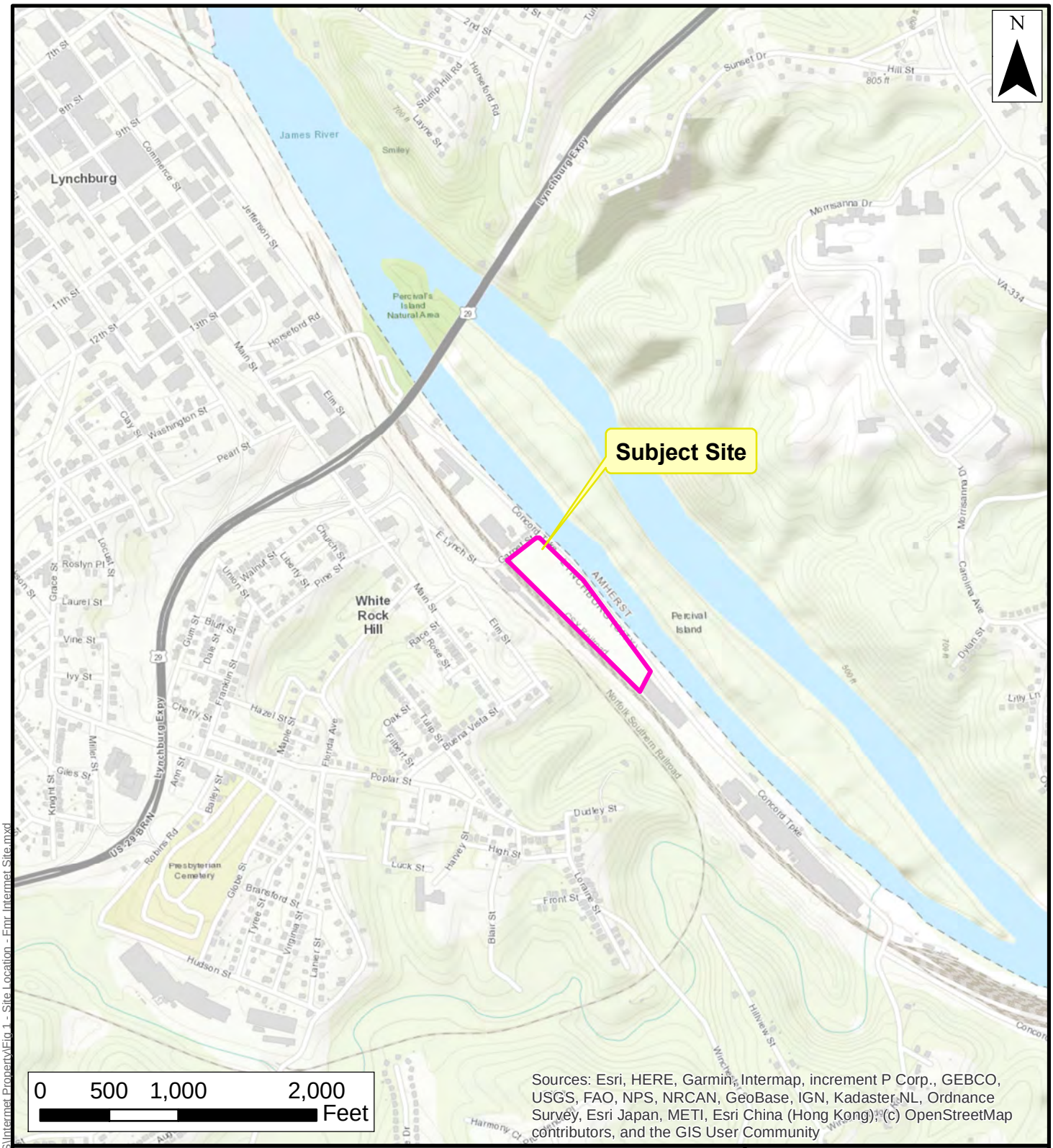
Attachment 1 – Figures
Attachment 2 – Data Summary Tables
Attachment 3 – Field Documentation
Attachment 4 – Laboratory Analytical Data and Validation

References:

1. ASTM E 1903-19, *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, 2019.
2. DAA, 2021, Phase I Environmental Site Assessment, Former Intermet Site / Lynchburg Foundry Site, DAA JN B12188B-10HM, May 7, 2021.
3. DAA, 2021, Phase II Environmental Site Assessment Sampling and Analysis Plan, Former Intermet Site / Lynchburg Foundry Site, DAA JN B12188B-10HM, September 28, 2021.
4. DAA, 2021, Phase II Environmental Site Assessment, Garnet Warehouse, DAA JN 2109460, December 20, 2021.
5. USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites. (RSL) Summary Table (TR=1E-06, HQ=1), November 2021, accessed December 2021 at https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
6. Vosnakis, Kelly A.S. and Perry, Elizabeth, 2009, Background Versus Risk-Based Screening Levels – An Examination of Arsenic Background Soil Concentrations in Seven States, "International Journal of Soil, Sediment and Water: Vol. 2: Iss. 2, Article 2. Available at: http//scholarworks,umass,edu/intljssw/vol2/iss2/2.

Attachment 1

Figures



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Site Location Map

Phase II Environmental Site Assessment
1651 Concord Turnpike (Parcel ID 04720005)
Lynchburg, Virginia

SCALE: 1" = 1000'

PROJECT: B12188B-10HM

Draper Aden Associates
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2200 South Main Street Suite A
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540-552-0444 Fax: 540-552-0291
Richmond, VA
Charlottesville, VA
Hampton Roads, VA
Raleigh, NC
Fayetteville, NC
Northern Virginia
Virginia Beach, VA

DESIGNED: KMW
DRAWN: HBK
CHECKED: JCF
DATE: 03/16/2022

FIGURE
1

Path: P:\B12\100\B12188\B12188B-10HM\GIS\Internet Property\Fig 1 - Site Location - Fmr Internet Site.mxd

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Raleigh, NC
Fayetteville, NC
Northern Virginia
Virginia Beach, VA

Site Vicinity Map
Phase II Environmental Site Assessment
1651 Concord Turnpike (Parcel ID 047200005)
Lynchburg, Virginia

DESIGNED: HMB
DRAWN: HMB
CHECKED: KMW
DATE: 03/16/2022

SCALE: 1" = 500'
PROJECT: B12188B-10HM

FIGURE
2

Path: \\draperaden.net\daa\Projects\B12100\B12188\B12188B-10HM\Gis\Intermet Property\Fig 2 - Site Vicinity - Fmr Intermet Site.mxd

Path: P:\B12\100\B12188B\B12188B-10HM\GIS\Internet Property\Fig 3 - Site Detail - Fmr Internet Site.mxd

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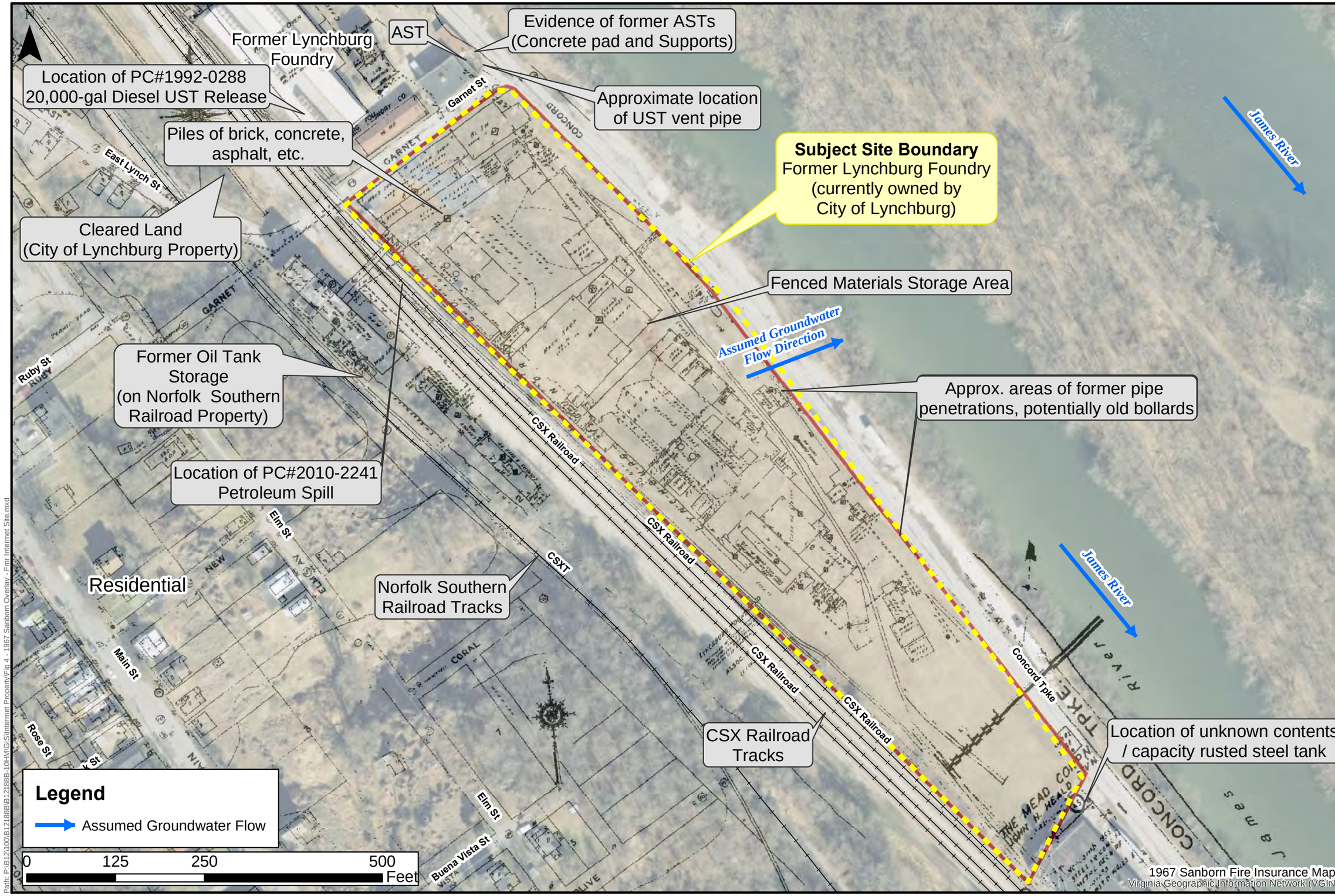
Hampton Roads, VA
Raleigh, NC
Fayetteville, NC
Northern Virginia
Virginia Beach, VA

Site Detail Map
Phase II Environmental Site Assessment
1651 Concord Turnpike (Parcel ID 04720005)
Lynchburg, Virginia

DESIGNED: KMW
DRAWN: HMB
CHECKED: JCF
DATE: 03/16/2022
SCALE: 1" = 125'
PROJECT: B12188B -10HM

FIGURE
3



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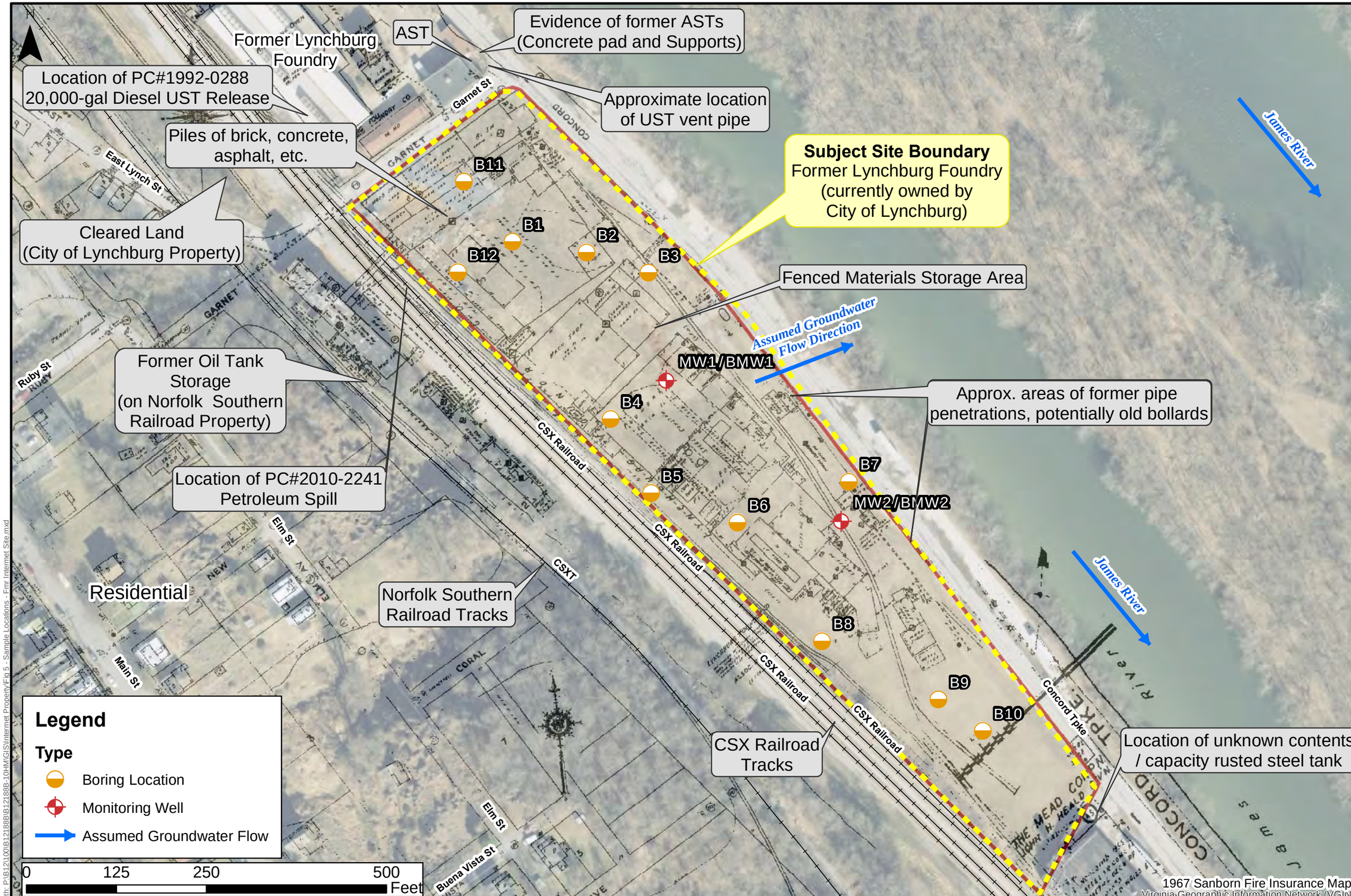
1967 Sanborn Fire Insurance Map Overlay
Phase II Environmental Site Assessment
1651 Concord Turnpike (Parcel ID 047200005)
Lynchburg, Virginia

DESIGNED: KMW
DRAWN: HMB
CHECKED: JCF
DATE: 03/16/2022
SCALE: 1" = 125'
PROJECT: B12188B -10HM

FIGURE
4



Path: P:\B12100\B12188\B12188B-10HM\GIS\Intermet Property\Fig 5 - Sample Locations - Fmr Intermet Site.mxd

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Soil Boring and Monitoring Well Sample Locations
Phase II Environmental Site Assessment
1651 Concord Turnpike (Parcel ID 047200005)
Lynchburg, Virginia

DESIGNED: KMW
DRAWN: HMB
CHECKED: JCF
DATE: 03/16/2022
SCALE: 1" = 125'
PROJECT: B12188B -10HM

FIGURE
5

Attachment 2

Data Summary Tables

Table 1-1: Field Screening Results and Sample Locations/Analyses
Phase II ESA October 20-21, 2021 Soil Sampling Event
Former Intermet / Lynchburg Foundry Site, Lynchburg, Virginia

Sample ID	Proposed Sample Interval (ft.bgs)	Approx. Depth Sample Collected (ft.bgs)	Rationale	SVOCs /PAHs	TM / including Cyanide	VOCs	PCBs
BMW1-1	0-2	0-1	To assess potential impact from former "cleaning room"/machine shop. Impact from off-site sources as well (e.g., petroleum release). Also near current fenced material storage area.	•	•	•	•
BMW1-2	>2	11-12		•	•	•	•
BMW2-1	0-2	0-1	To assess potential impact within footprint of former foundry cleaning room.	•	•	•	
BMW2-2	>2	14-15		•	•	•	
B1-1	0-2	1-2	To assess potential impact from historical operations. Locations within footprint of the former shell foundry in the area denoted as "drum storage."	•	•	•	
B1-2	>2	11-12		•	•	•	
B2-1	0-2	0-1	To assess potential impact from foundry. Location within footprint of the former machine repair room (part of shell foundry).	•	•	•	•
B2-1 MS/MSD							
B2-2	>2	4-5		•	•	•	•
B3-1	0-2	0-1	To assess possible impact from drum storage located within the "cupola bag house."	•	•	•	
B3-2	>2	4-5		•	•	•	
B4-1	0-2	0-2	To assess possible impact from machine repair shop.	•	•	•	•
B4-2	>2	9-10		•	•	•	•
B4-2 MS/MSD							
B5-1	0-2	0-2	To assess possible impact from cupola bag house located within the footprint of the "greensand" foundry – drum storage area.	•	•	•	
B5-2	>2	11-12		•	•	•	
B6-1	0-2	0-1	To assess possible impact from the greensand foundry, specifically within footprint of foundry and near the cupolas that are noted as a "bag house."		•		
B6-2	>2	6-7		•	•	•	
B7-1	0-2	0-2	To assess possible impact within the "cleaning and finishing" area/ cleaning shop.	•	•		•
B7-2	>2	10-12		•	•	•	•

TM – Total Metals; VOCs – Volatile Organic Compounds; SVOCs – Semivolatile Organic Compounds; PAHs – Polyaromatic Hydrocarbons; PCBs - Polychlorinated Biphenyl; MS/MSD denotes matrix spike/matrix spike duplicate.

*Contigency samples added based on field observations (deviation from SAP).

Table 1-1: Field Screening Results and Sample Locations/Analyses
Phase II ESA October 20-21, 2021 Soil Sampling Event
Former Intermet / Lynchburg Foundry Site, Lynchburg, Virginia

Sample ID	Proposed Sample Interval (ft.bgs)	Approx. Depth Sample Collected (ft.bgs)	Rationale	SVOCs /PAHs	TM / including Cyanide	VOCs	PCBs
B8-1	0-2	1-2	To assess possible impact within the cleaning and finishing area, specifically the "bag house."	●	●	●	
B8-2	>2	9-10		●	●	●	
B9-1	0-2	0-1	To assess possible impact from "cleaning house" located within the footprint of the former carpenter shop and ladle repair.		●		
B9-2	>2	9-10		●	●	●	
B10-1	0-2	0-1	To assess possible impact in area where railroad spurs diverged and potential unknown spills. Assess potential disposal/burial may have occurred.	●	●		
B10-2	Not sampled						
B11-1	>5	0-1	To assess possible impact in former area noted on historical maps (1951 Sanborn) as a painting, polishing, and chemical storage building.	●	●	●	
B11-2	NA	9-10		●	●	●	
B12-1	0-2	0-1	To assess possible impact within the footprint of the former shell foundry, near former cupolas.	●	●	●	
B12-2	>2	6-7		●		●	
B12-3 *	NA	14-15		●		●	

TM – Total Metals; VOCs – Volatile Organic Compounds; SVOCs – Semivolatile Organic Compounds; PAHs – Polyaromatic Hydrocarbons; PCBs - Polychlorinated Biphenyl; MS/MSD denotes matrix spike/matrix spike duplicate.

*Contigency samples added based on field observations (deviation from SAP).

Table 1-2: Field Measurements and Sample Locations/Analyses
Phase II ESA October 27, 2021 Groundwater Sampling Event
Former Intermet / Lynchburg Foundry Site, Lynchburg, Virginia

Sample ID	Proposed Well Depth (ft.bgs)	Depth Water Encountered During Drilling (ft. bgs)	Approx. Well Depth (ft.bgs)	Rationale	SVOCs /PAHs	TM / including Cyanide	VOCs
MW-1/BMW1	15-20	17	24.04	Located within the footprint of the former "cleaning room" associated with the machine shop.	•	•	•
MW-2/BMW2	15-20	17	21.91	Located within the footprint of the foundry cleaning room.	•	•	•
MW-2/BMW2 MS/MSD							

TM – Total Metals; VOCs – Volatile Organic Compounds; SVOCs – Semivolatile Organic Compounds; PAHs – Polyaromatic Hydrocarbons; MS/MSD denotes matrix spike/matrix spike duplicate.

Table 2-1: Summary of Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)																			
					BMW1-1/ 0-1'	Q	BMW1-2/ 11-12'	Q	BMW2-1/ 0-1'	Q	BMW2-2/ 14-15'	Q	B1-1/ 1-2'	Q	B1-2/ 11-12'	Q	B2-1/ 0-1'	Q	B2-2/ 4-5'	Q	B3-1/ 0-1'	Q	B3-2/ 4-5'	Q
Inorganic Compounds (mg/kg)																								
Aluminum	6020B	7429-90-5	1,100,000	77,000	**33000**		**19000**		**33000**		**13000**		**13000**		**13000**		**13000**		**2400**		**25000**		**10000**	
Antimony	6020B	7440-36-0	470	31	0.25	U	**0.41**	J	0.21	U	0.18	U	**0.71**		0.21	U	**0.43**	J	**0.4**	J	0.21	U	**1.5**	
Arsenic	6020B	7440-38-2	3	0.68	**2.3**		**4.8**		**1.9**		**1.7**		**7.1**		**6.2**		**2.9**		**4.9**		**3.6**		**11**	
Barium	6020B	7440-39-3	220,000	15,000	**150**	J	**380**	J	**280**	J	**120**	J	**1400**	J	**150**	J	**160**	J	**31**	J	**180**	J	**74**	J
Beryllium	6020B	7440-41-7	2,300	160	**1.2**		**1.2**		**1.6**		**0.35**		**0.81**		**1.1**		**1.1**		**0.15**		**1.4**		**0.39**	
Cadmium	6020B	7440-43-9	100	7.1	**0.084**	J	**0.06**	J	**0.067**	J	**0.081**	J	**0.71**		**0.34**		**0.38**		**0.22**		**0.53**		**0.096**	J
Calcium	6020B	7440-70-2	NE	NE	**1600**		**64000**		**1000**		**2500**		**34000**		**1400**		**58000**		**33000**		**33000**		**2600**	
Chromium	6020B	7440-47-3	1,800,000 (2)	120,000 (2)	**32**		**41**		**28**		**10**		**28**		**16**		**30**		**9.9**		**20**		**19**	
Cobalt	6020B	7440-48-4	350	23	**50**		**14**		**59**		**5.1**		**9**		**13**		**5.4**		**9.8**		**35**		**9**	
Copper	6020B	7440-50-8	47,000	3,100	**120**		**13**		**100**		**10**		**46**		**16**		**29**		**56**		**120**		**170**	
Iron	6020B	7439-89-6	820,000	55,000	**85000**		**84000**		**100000**		**26000**		**29000**		**28000**		**20000**		**34000**		**72000**		**52000**	
Lead	6020B	7439-92-1	800	400	**17**	J	**25**	J	**7.7**	J	**14**	J	**46**	J	**16**	J	**22**	J	**17**	J	**55**	J	**50**	J
Magnesium	6020B	7439-95-4	NE	NE	**7700**		**2500**		**13000**		**10000**		**3500**		**2100**		**16000**		**850**		**5200**		**600**	
Manganese	6020B	7439-96-5	26,000	1,800	**750**		**8200**		**1100**		**350**		**520**		**670**		**2200**		**500**		**570**		**570**	
Mercury	7471B	7439-97-6	46	11	**0.082**	J	0.02	UJ	0.02	UJ	0.019	UJ	**0.028**	J	0.024	UJ	0.024	UJ	0.023	UJ	**0.088**	J	0.024	UJ
Nickel	6020B	7440-02-0	22,000 (3)	1,500 (3)	**22**		**34**		**27**		**6.6**		**66**		**24**		**11**		**27**		**27**		**20**	
Potassium	6020B	7440-09-7	NE	NE	**2600**		**4300**		**6200**		**11000**		**3200**		**1600**		**1400**		**530**		**2000**		**1100**	
Selenium	6020B	7782-49-2	5,800	390	**3.9**		**1.7**		**5.1**		**3.2**		0.57	U	**0.77**	J	0.54	U	0.53	U	**1.3**		**0.83**	J
Silver	6020B	7440-22-4	5,800	390	0.074	U	0.059	U	0.062	U	0.055	U	**0.12**	J	0.064	U	**0.11**	J	0.067	U	**0.33**		**0.71**	
Sodium	6020B	7440-23-5	NE	NE	**91**	J	**540**		**81**	J	**120**		**440**		**74**	J	**290**		**90**	J	**58**	J	**110**	
Thallium	6020B	7440-28-0	12	0.78	**0.18**		**0.22**		**0.19**		**0.61**		**0.2**		**0.24**		**0.077**	J	**0.054**	J	**0.22**		**0.076**	J
Vanadium	6020B	7440-62-2	5,800	390	**290**		**130**		**310**		**23**		**32**		**26**		**22**		**15**		**120**		**28**	
Zinc	6020B	7440-66-6	350,000	23,000	**120**	J	**160**	J	**180**	J	**120**	J	**650**	J	**78**	J	**70**	J	**63**	J	**180**	J	**64**	J
Cyanide	9012B	57-12-5	150	23	**120**		0.22	U	**13**		**93**		**1.4**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Volatile Organic Compounds (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	**BMW1-1/ 0-1'**	**Q**	**BMW1-2/ 11-12'**	**Q**	**BMW2-1/ 0-1'**	**Q**	**BMW2-2/ 14-15'**	**Q**	**B1-1/ 1-2'**	**Q**	**B1-2/ 11-12'**	**Q**	**B2-1/ 0-1'**	**Q**	**B2-2/ 4-5'**	**Q**	**B3-1/ 0-1'**	**Q**	**B3-2/ 4-5'**	**Q**
Acetone	8260D	67-64-1	1,100,000	70,000	0.013	U	0.0094	U	0.0059	U	0.0085	U	0.0096	U	0.0054	U	**0.069**		**0.031**		0.0067	U	**0.089**	
Benzene	8260D	71-43-2	5.1	1.2	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Bromochloromethane	8260D	74-97-5	630	150	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Bromodichloromethane	8260D	75-27-4	1.3	0.29	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Bromoform	8260D	75-25-2	86	19	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Bromomethane (Methyl bromide)	8260D	74-83-9	30	6.8	0.0047	U	0.0035	U	0.0022	U	0.0032	U	0.0036	U	0.002	U	0.0043	U	0.0039	U	0.0025	U	0.0023	U
2-Butanone (MEK)	8260D	78-93-3	190,000	27,000	0.0063	U	0.0047	U	0.0029	U	0.0042	U	0.0048	U	0.0027	U	**0.026**	J	**0.0088**	J	0.0033	U	**0.019**	
Carbon disulfide	8260D	75-15-0	3,500	770	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	**0.0055**	J	0.0026	U	0.0017	U	0.0015	U
Carbon tetrachloride	8260D	56-23-5	2.9	0.65	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Chlorobenzene	8260D	108-90-7	1,300	280	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Chloroethane	8260D	75-00-3	23,000	5,400	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Chloroform	8260D	67-66-3	1.4	0.32	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Chloromethane (Methyl chloride)	8260D	74-87-3	460	110	0.0047	U	0.0035	U	0.0022	U	0.0032	U	0.0036	U	0.002	U	0.0043	U	0.0039	U	0.0025	U	0.0023	U
Cyclohexane	8260D	110-82-7	27,000	6,500	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
1,2-Dibromo-3-chloropropane (DBCP)	8260D	96-12-8	0.01	0.06	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Dibromochloromethane	8260D	124-48-1	39	8.3	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
1,2-Dibromoethane (EDB)	8260D	106-93-4	0.16	0.04	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
1,2-Dichlorobenzene	8260D	95-50-1	9,300	1,800	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
1,3-Dichlorobenzene	8260D	541-73-1	NE	NE	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
1,4-Dichlorobenzene	8260D	106-46-7	11	2.6	0.0031	UJ	0.0024	UJ	0.0015	UJ	0.0021	UJ	0.0024	UJ	0.0013	UJ	0.0029	UJ	0.0026	UJ	0.0017	UJ	0.0015	UJ
Dichlorodifluoromethane	8260D	75-71-8	370	87	0.0047	U	0.0035	U	0.0022	U	0.0032	U	0.0036	U	0.002	U	0.0043	U	0.0039	U	0.0025	U	0.0023	U
1,1-Dichloroethane	8260D	75-34-3	16	3.6	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	**0.0026**	J
1,2-Dichloroethane	8260D	107-06-2	2	0.46	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
1,1-Dichloroethene	8260D	75-35-4	1,000	230	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
cis-1,2-Dichloroethene	8260D	156-59-2	2,300	160	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
trans-1,2-Dichloroethene	8260D	156-60-5	300	70	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
1,2-Dichloropropane	8260D	78-87-5	11	2.5	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
cis-1,3-Dichloropropene	8260D	10061-01-5	NE	NE	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
trans-1,3-Dichloropropene	8260D	10061-02-6	NE	NE	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Ethylbenzene	8260D	100-41-4	25	5.8	**0.0077**	J	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
2-Hexanone	8260D	591-78-6	1,300	200	0.0063	U	0.0047	U	0.0029	U	0.0042	U	0.0048	U	0.0027	U	0.0058	U	0.0052	U	0.0033	U	0.0031	U
Isopropylbenzene	8260D	98-82-8	9,900	1,900	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Methyl acetate	8260D	79-20-9	1,200,000	78,000	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Methyl tertiary butyl ether (MTBE)	8260D	1634-04-4	210	47	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
4-Methyl-2-pentanone	8260D	108-10-1	140,000	33,000	0.0063	U	0.0047	U	0.0029	U	0.0042	U	0.0048	U	0.0027	U	0.0058	U	0.0052	U	0.0033	U	0.0031	U
Methylcyclohexane	8260D	108-87-2	NE	NE	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Methylene chloride	8260D	75-09-2	1,000	57	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U

Table 2-1: Summary of Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)																			
					BMW1-1/ 0-1'	Q	BMW1-2/ 11-12'	Q	BMW2-1/ 0-1'	Q	BMW2-2/ 14-15'	Q	B1-1/ 1-2'	Q	B1-2/ 11-12'	Q	B2-1/ 0-1'	Q	B2-2/ 4-5'	Q	B3-1/ 0-1'	Q	B3-2/ 4-5'	Q
Styrene	8260D	100-42-5	35,000	6,000	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
1,1,2,2-Tetrachloroethane	8260D	79-34-5	2.7	0.6	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Tetrachloroethene	8260D	127-18-4	100	24	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Toluene	8260D	108-88-3	47,000	4,900	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	8260D	76-13-1	28,000	6,700	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
1,2,3-Trichlorobenzene	8260D	87-61-6	930	63	0.0031	UJ	0.0024	UJ	0.0015	UJ	0.0021	UJ	0.0024	UJ	0.0013	UJ	0.0029	UJ	0.0026	UJ	0.0017	UJ	0.0015	U
1,2,4-Trichlorobenzene	8260D	120-82-1	110	24	0.0031	UJ	0.0024	UJ	0.0015	UJ	0.0021	UJ	0.0024	UJ	0.0013	UJ	0.0029	UJ	0.0026	UJ	0.0017	UJ	0.0015	UJ
1,1,1-Trichloroethane	8260D	71-55-6	36,000	8,100	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
1,1,2-Trichloroethane	8260D	79-00-5	5	1.1	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Trichloroethene	8260D	79-01-6	6	0.94	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Trichlorofluoromethane	8260D	75-69-4	350,000	23,000	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Vinyl chloride	8260D	75-01-4	1.7	0.06	0.0047	U	0.0035	U	0.0022	U	0.0032	U	0.0036	U	0.002	U	0.0043	U	0.0039	U	0.0025	U	0.0023	U
m+p - Xylenes	8260D	179601-23-1	2,400	560	**0.045**		0.0024	U	**0.0021**	J	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
o - Xylenes	8260D	95-47-6	2,800	640	**0.017**		0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Semivolatile Organic Compounds (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	**BMW1-1/ 0-1'**	**Q**	**BMW1-2/ 11-12'**	**Q**	**BMW2-1/ 0-1'**	**Q**	**BMW2-2/ 14-15'**	**Q**	**B1-1/ 1-2'**	**Q**	**B1-2/ 11-12'**	**Q**	**B2-1/ 0-1'**	**Q**	**B2-2/ 4-5'**	**Q**	**B3-1/ 0-1'**	**Q**	**B3-2/ 4-5'**	**Q**
Acenaphthene	8270E	83-32-9	45,000	3,600	0.011	U	0.0093	U	**0.031**		0.00086	U	**0.025**	J	0.001	U	**0.041**		0.001	U	**0.065**		0.01	U
Acenaphthylene	8270E	208-96-8	23,000 (4)	1,800 (4)	0.013	U	**0.032**		0.011	U	0.00099	U	**0.02**	J	0.0012	U	**0.039**		0.0012	U	**0.078**		0.011	U
Acetophenone	8270E	98-86-2	120,000	7,800	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Anthracene	8270E	120-12-7	230,000	18,000	0.0068	U	**0.11**		**0.12**		0.00053	U	**0.18**	B	0.00063	U	**0.11**	B	**0.0017**	B	**0.22**	B	**0.042**	B
Atrazine	8270E	1912-24-9	10	2.4	0.066	UJ	0.056	UJ	0.057	UJ	0.0052	UJ	0.068	UJ	0.0062	UJ	0.061	UJ	0.0061	UJ	0.061	UJ	0.06	UJ
Benzaldehyde	8270E	100-52-7	820	170	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Benzo(a)anthracene	8270E	56-55-3	21	1.1	**0.024**	J	**0.44**		**0.57**		**0.0041**		**1.3**		0.00073	U	**0.45**		**0.0081**		**0.8**		**0.58**	
Benzo(a)pyrene	8270E	50-32-8	2.1	0.11	**0.03**	J	**0.46**		**0.75**		**0.0048**		**1.3**	B	**0.00084**	B	**0.57**	B	**0.0092**	B	**0.94**	B	**1.1**	B
Benzo(b)fluoranthene	8270E	205-99-2	21	1.1	**0.044**		**0.53**		**0.87**		**0.0058**		**1.8**		**0.0022**	J	**0.73**		**0.011**		**1**		**2.3**	
Benzo(g,h,i)perylene	8270E	191-24-2	23,000 (4)	1,800 (4)	0.0086	UJ	**0.17**	J	**0.37**	J	**0.0024**	J	**0.85**	JB	0.0008	UJ	**0.32**	JB	**0.0067**	JB	**0.47**	JB	**1.1**	JB
Benzo(k)fluoranthene	8270E	207-08-9	210	11	**0.013**	J	**0.23**		**0.4**		**0.0015**	J	**0.67**		0.00059	U	**0.23**		**0.0046**		**0.44**		**0.67**	
1,1'-Biphenyl	8270E	92-52-4	200	47	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
4-Bromophenyl phenyl ether	8270E	101-55-3	NE	NE	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Butyl benzyl phthalate	8270E	85-68-7	1,200	290	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Caprolactam	8270E	105-60-2	400,000	31,000	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	**0.015**	J	0.061	U	**0.015**	J	0.061	U	0.06	U
Carbazole	8270E	86-74-8	NE	NE	0.066	U	0.056	U	**0.06**	J	0.0052	U	**0.087**	J	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
bis (2-Chloro-1-methylethyl) ether	8270E	108-60-1	47,000	3,100	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
4-Chloro-3-methyl phenol	8270E	59-50-7	82,000	6,300	0.066	UJ	0.056	UJ	0.057	UJ	0.0052	UJ	0.068	UJ	0.0062	UJ	0.061	UJ	0.0061	UJ	0.061	UJ	0.06	UJ
4-Chloroaniline	8270E	106-47-8	11	2.7	0.066	UJ	0.056	U	0.057	UJ	0.0052	UJ	0.068	UJ	0.0062	UJ	0.061	UJ	0.0061	UJ	0.061	UJ	0.06	UJ
bis(2-Chloroethoxy)methane	8270E	111-91-1	2,500	190	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
bis(2-Chloroethyl)ether	8270E	111-44-4	1	0.23	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
2-Chloronaphthalene	8270E	91-58-7	60,000	4,800	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
2-Chlorophenol	8270E	95-57-8	5,800	390	0.066	U	0.056	UJ	0.057	UJ	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
4-Chlorophenyl phenyl ether	8270E	7005-72-3	NE	NE	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Chrysene	8270E	218-01-9	2100	110	**0.028**	J	**0.44**		**0.6**		**0.0036**		**1.8**		0.00056	U	**0.5**		**0.011**		**0.8**		**1.2**	
Dibenzo(a,h)anthracene	8270E	53-70-3	2.1	0.11	0.0068	U	0.0057	U	0.0058	U	0.00053	U	0.0069	U	0.00063	U	0.0062	U	0.00062	U	0.0062	U	0.0062	U
Dibenzofuran	8270E	132-64-9	1,200	78	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
3,3'-Dichlorobenzidine	8270E	91-94-1	5.1	1.2	0.066	UJ	0.056	UJ	0.057	UJ	0.0052	UJ	0.068	UJ	0.0062	UJ	0.061	UJ	0.0061	UJ	0.061	UJ	0.06	UJ
2,4-Dichlorophenol	8270E	120-83-2	2,500	190	0.066	U	0.056	UJ	0.057	UJ	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Diethylphthalate	8270E	84-66-2	660,000	51,000	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Dimethyl phthalate	8270E	131-11-3	NE	NE	0.098	U	0.083	U	0.084	U	0.0077	U	0.1	U	0.0091	U	0.09	U	0.009	U	0.09	U	0.089	U
2,4-Dimethylphenol	8270E	105-67-9	16,000	1,300	0.066	UJ	0.056	UJ	0.057	UJ	0.0052	UJ	0.068	UJ	0.0062	UJ	0.061	UJ	0.0061	UJ	0.061	UJ	0.06	UJ
Di-n-butyl phthalate	8270E	84-74-2	82,000	6,300	0.066	U	0.056	U	0.057	U	**0.02**		0.068	U	**0.02**		0.061	U	**0.023**		0.061	U	0.06	U
4,6-Dinitro-2-methylphenol	8270E	534-52-1	66	5.1	0.33	U	0.28	UJ	0.28	UJ	0.026	U	0.34	U	0.031	U	0.3	U	0.031	U	0.31	U	0.3	U
2,4-Dinitrophenol	8270E	51-28-5	1,600	130	0.33	U	0.28	UJ	0.28	UJ	0.026	U	0.34	U	0.031	U	0.3	U	0.031	U	0.31	U	0.3	U
2,4-Dinitrotoluene	8270E	121-14-2	7.4	1.7	0.13	U	0.11	U	0.11	U	0.01	U	0.14	U	0.012	U	0.12	U	0.012	U	0.12	U	0.12	U
2,6-Dinitrotoluene	8270E	606-20-2	1.5	0.36	0.13	U	0.11	U	0.11	U	0.01	U	0.14	U	0.012	U	0.12	U	0.012	U	0.12	U	0.12	U
Di-n-octylphthalate	8270E	117-84-0	8,200	630	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
1,4-Dioxane	8270E	123-91-1	24	5.3	0.13	U	0.11	U	0.11	U	0.01	U	0.14	U	0.012	U	0.12	U	0.012	U	0.12	U	0.12	U
bis(2-Ethylhexyl)phthalate	8270E	117-81-7	160	39	0.33	U	0.28	U	0.28	U	0.026	U	0.34	U	0.031	U	0.3	U	0.031	U	0.31	U	0.3	U
Fluoranthene	8270E	206-44-0	30,000	2,400	**0.042**		**0.88**		**1**		**0.0056**		**2.7**		0.00052	U	**0.9**		**0.016**		**1.4**		**1.1**	
Fluorene	8270E	86-73-7	30,000	2,400	0.0076	U	0.0064	U	**0.025**	J	0.00059	U	**0.026**	J	0.0007	U	**0.025**	J	0.0007	U	**0.061**		0.0069	U
Hexachlorobenzene	8270E	118-74-1	0.96	0.21	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Hexachlorobutadiene	8270E	87-68-3	5.3	1.2	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Hexachlorocyclopentadiene	8270E	77-47-4	7.5	1.8	0.33	UJ	0.28	UJ	0.28	UJ	0.026	UJ	0.34	UJ	0.031	UJ	0.3	UJ	0.031	UJ	0.31	UJ	0.3	UJ
Hexachloroethane	8270E	67-72-1	8	1.8	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Indeno(1,2,3-c,d)pyrene	8270E	193-39-5	21	1.1	**0.018**	J	**0.18**		**0.34**		**0.0023**	J	**0.73**		0.0012	U	**0.29**		**0.0055**		**0.44**		**0.93**	
Isophorone	8270E	78-59-1	2,400	570	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U

Table 2-1: Summary of Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)																			
					BMW1-1/ 0-1'	Q	BMW1-2/ 11-12'	Q	BMW2-1/ 0-1'	Q	BMW2-2/ 14-15'	Q	B1-1/ 1-2'	Q	B1-2/ 11-12'	Q	B2-1/ 0-1'	Q	B2-2/ 4-5'	Q	B3-1/ 0-1'	Q	B3-2/ 4-5'	Q
2-Methylnaphthalene	8270E	91-57-6	3,000	240	0.013	U	**0.016**	J	0.011	U	0.001	U	0.013	U	0.0012	U	**0.49**		**0.0075**		**0.054**		**0.063**	
2-Methylphenol	8270E	95-48-7	41,000	3,200	0.066	UJ	0.056	UJ	0.057	UJ	0.0052	UJ	0.068	UJ	0.0062	UJ	0.061	UJ	0.0061	UJ	0.061	UJ	0.06	UJ
3+4-Methylphenol (1)	8270E	106-44-5	82,000 (1)	6,300 (1)	0.13	UJ	0.11	UJ	0.11	UJ	0.01	UJ	0.14	UJ	0.012	UJ	0.12	UJ	0.012	UJ	0.12	UJ	0.12	UJ
Naphthalene	8270E	91-20-3	8.6	2	0.013	U	**0.035**		0.011	U	0.001	U	**0.033**	J	0.0012	U	**0.12**		**0.0067**		**0.088**		**0.057**	
2-Nitroaniline	8270E	88-74-4	8,000	630	0.13	U	0.11	U	0.11	U	0.01	U	0.14	U	0.012	U	0.12	U	0.012	U	0.12	U	0.12	U
3-Nitroaniline	8270E	99-09-2	NE	NE	0.13	UJ	0.11	UJ	0.11	UJ	0.01	UJ	0.14	UJ	0.012	UJ	0.12	UJ	0.012	UJ	0.12	UJ	0.12	UJ
4-Nitroaniline	8270E	100-01-6	110	27	0.13	UJ	0.11	UJ	0.11	UJ	0.01	UJ	0.14	UJ	0.012	UJ	0.12	UJ	0.012	UJ	0.12	UJ	0.12	UJ
Nitrobenzene	8270E	98-95-3	22	5.1	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
2-Nitrophenol	8270E	88-75-5	NE	NE	0.13	U	0.11	UJ	0.11	UJ	0.01	U	0.14	U	0.012	U	0.12	U	0.012	U	0.12	U	0.12	U
4-Nitrophenol	8270E	100-02-7	NE	NE	0.33	UJ	0.28	UJ	0.28	UJ	0.026	UJ	0.34	UJ	0.031	UJ	0.3	UJ	0.031	UJ	0.31	UJ	0.3	UJ
N-Nitrosodi-n-propylamine	8270E	621-64-7	0.33	0.08	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
N-Nitrosodiphenylamine (Diphenylamine)	8270E	86-30-6	470	110	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Pentachlorophenol	8270E	87-86-5	4	1	0.33	UJ	0.28	UJ	0.28	UJ	0.026	UJ	0.34	UJ	0.031	UJ	0.3	UJ	0.031	UJ	0.31	UJ	0.3	UJ
Phenanthrene	8270E	85-01-8	23,000 (4)	1,800 (4)	0.0096	U	**0.26**		**0.36**		**0.0023**	J	**1.2**	B	**0.00098**	BJ	**0.42**	B	**0.012**	B	**0.56**	B	**0.37**	B
Phenol	8270E	108-95-2	250,000	19,000	0.066	UJ	0.056	UJ	0.057	UJ	0.0052	UJ	0.068	UJ	0.0062	UJ	0.061	UJ	0.0061	UJ	0.061	UJ	0.06	UJ
Pyrene	8270E	129-00-0	23,000	1,800	**0.032**	J	**0.61**		**0.73**		**0.0048**		**2.7**	B	**0.0013**	BJ	**0.65**	B	**0.011**	B	**1.1**	B	**0.72**	B
1,2,4,5-Tetrachlorobenzene	8270E	95-94-3	35	2.3	0.13	U	0.11	U	0.11	U	0.01	U	0.14	U	0.012	U	0.12	U	0.012	U	0.12	U	0.12	U
2,3,4,6-Tetrachlorophenol	8270E	58-90-2	25,000	1,900	0.13	UJ	0.11	UJ	0.11	UJ	0.01	UJ	0.14	UJ	0.012	UJ	0.12	UJ	0.012	UJ	0.12	UJ	0.12	UJ
2,4,5-Trichlorophenol	8270E	95-95-4	82,000	6,300	0.066	UJ	0.056	UJ	0.057	UJ	0.0052	UJ	0.068	UJ	0.0062	UJ	0.061	UJ	0.0061	UJ	0.061	UJ	0.06	UJ
2,4,6-Trichlorophenol	8270E	88-06-2	210	49	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Polychlorinated Biphenyls; Aroclors (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	**BMW1-1/ 0-1'**	**Q**	**BMW1-2/ 11-12'**	**Q**	**BMW2-1/ 0-1'**	**Q**	**BMW2-2/ 14-15'**	**Q**	**B1-1/ 1-2'**	**Q**	**B1-2/ 11-12'**	**Q**	**B2-1/ 0-1'**	**Q**	**B2-2/ 4-5'**	**Q**	**B3-1/ 0-1'**	**Q**	**B3-2/ 4-5'**	**Q**
Aroclor 1016	8082A	12674-11-2	27	4.1	0.0036	UJ	0.003	UJ	NS		NS		NS		NS		0.0033	UJ	0.0033	UJ	NS		NS	
Aroclor 1221	8082A	11104-28-2	0.83	0.2	0.0031	UJ	0.0026	UJ	NS		NS		NS		NS		0.0028	UJ	0.0028	UJ	NS		NS	
Aroclor 1232	8082A	11141-16-5	0.72	0.17	0.0028	UJ	0.0023	UJ	NS		NS		NS		NS		0.0026	UJ	0.0026	UJ	NS		NS	
Aroclor 1242	8082A	53469-21-9	0.95	0.23	0.0021	UJ	0.0017	UJ	NS		NS		NS		NS		0.0019	UJ	0.0019	UJ	NS		NS	
Aroclor 1248	8082A	12672-29-6	0.94	0.23	0.0054	UJ	0.0045	UJ	NS		NS		NS		NS		0.005	UJ	0.005	UJ	NS		NS	
Aroclor 1254	8082A	11097-69-1	0.97	0.24	0.0033	UJ	0.0028	UJ	NS		NS		NS		NS		0.0031	UJ	0.0031	UJ	NS		NS	
Aroclor 1260	8082A	11096-82-5	0.99	0.24	0.0032	UJ	0.0027	UJ	NS		NS		NS		NS		0.003	UJ	0.003	UJ	NS		NS	
Aroclor 1262	8082A	37324-23-5	NE	NE	0.0028	UJ	0.0023	UJ	NS		NS		NS		NS		0.0025	UJ	0.0026	UJ	NS		NS	
Aroclor 1268	8082A	11100-14-4	NE	NE	0.0019	UJ	0.0016	UJ	NS		NS		NS		NS		0.0017	UJ	0.0018	UJ	NS		NS	

Notes:
U - Denotes analyte not detected at or above method detection limit or quantitation limit.
U J - Denotes analyte not detected at or above method detection limit (MDL) or quantitation limit (QL) and MDL and QL are estimated. See data validation report for additional information.
J - Denotes estimated value.
NS - Denotes not sampled.
NE - Denotes not established.
RSL - Denotes Regional Screening Level - United States Environmental Protection Agency Region Regional Screening Level (RSL) Summary Table November 2021 (TR=1E-06 THQ=1.0)
https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
Q - Denotes data validation qualifier.
B - Denotes result considered influenced by laboratory contamination
JB - Denotes result considered influenced by laboratory contamination and result/QL considered estimated
(1) 3-Methylphenol and 4-Methylphenol cannot be resolved. Result is combination of both results.
(2) Chromium III, Insoluble Salts was selected as a screening value for total chromium.
(3) Nickel Soluble Salts was selected as the screening value for total nickel.
(4) Pyrene was selected as a surrogate for non-carcenogenic PAHs (acenaphthylene, benzo[g,h,i]perylene and phenanthrene).
(5) Chromium VRP limit based on hexavalent chromium screening limit
Due to limitations of analytical methods and budget constraints, there may be certain instances where the laboratory quantitation or detection limits are greater than the project action levels. However, this should not hinder this assessment, as a comprehensive review of all analytical results across the site will help determine if further evaluation beyond the scope of this assessment may be required.

Table 2-2: Summary of Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)																					
					B4-1/ 0-2'	Q	B4-2/ 9-10'	Q	B5-1/ 0-2'	Q	B5-2/ 11-12'	Q	B6-1/ 0-1'	Q	B6-2/ 6-7'	Q	B7-1/ 0-2'	Q	B7-2/ 10-12'	Q	B8-1/ 1-2'	Q	B8-2/ 9-10'	Q
Inorganic Compounds (mg/kg)																										
Aluminum	6020B	7429-90-5	1,100,000	77,000	**8400**		**12000**		**18000**		**17000**		**18000**		**7800**		**11000**		**12000**		**20000**		**17000**	
Antimony	6020B	7440-36-0	470	31	**0.56**	J	**0.37**	J	0.28	U	0.23	U	0.21	U	0.21	U	**0.42**	J	**3**		0.24	U	0.21	U
Arsenic	6020B	7440-38-2	3	0.68	**5**		**7.5**		**0.89**		**4.8**		**1.9**		**3.4**		**7.7**		**39**		**0.86**		**4.5**	
Barium	6020B	7440-39-3	220,000	15,000	**89**	J	**130**	J	**170**	J	**140**	J	**130**	J	**170**	J	**71**	J	**140**	J	**150**	J	**120**	J
Beryllium	6020B	7440-41-7	2,300	160	**0.74**		**1**		**0.84**		**1.6**		**0.69**		**0.47**		**0.35**		**0.71**		**0.66**		**1.1**	
Cadmium	6020B	7440-43-9	100	7.1	**0.28**		**0.34**		**0.052**	J	**0.1**	J	**0.058**	J	**0.1**	J	**0.066**	J	0.026	U	0.031	U	**0.07**	J
Calcium	6020B	7440-70-2	NE	NE	**10000**		**2900**		**7000**		**950**		**120000**		**1700**		**130000**		**38000**		**5300**		**810**	
Chromium	6020B	7440-47-3	1,800,000 (2)	120,000 (2)	**23**		**16**		**12**		**21**		**24**		**12**		**210**		**24**		**9**		**17**	
Cobalt	6020B	7440-48-4	350	23	**8.4**		**12**		**25**		**9.1**		**24**		**6.2**		**9.3**		**33**		**14**		**6.5**	
Copper	6020B	7440-50-8	47,000	3,100	**34**	J	**21**	JB	**120**	J	**27**	J	**50**	J	**25**	J	**57**	J	**480**	J	**64**	J	**18**	J
Iron	6020B	7439-89-6	820,000	55,000	**24000**		**26000**		**60000**		**32000**		**44000**		**19000**		**78000**		**120000**		**46000**		**29000**	
Lead	6020B	7439-92-1	800	400	**240**	J	**24**	J	**3.3**	J	**19**	J	**7.4**	J	**49**	J	**6.2**	J	**16**	J	**2.9**	J	**17**	J
Magnesium	6020B	7439-95-4	NE	NE	**1700**		**2000**		**7700**		**2500**		**9600**		**1600**		**6900**		**1500**		**7000**		**2100**	
Manganese	6020B	7439-96-5	26,000	1,800	**440**		**580**		**380**		**220**		**420**		**230**		**850**		**5300**		**320**		**200**	
Mercury	7471B	7439-97-6	46	11	0.024	UJ	**0.025**	J	**0.034**	J	0.022	UJ	0.02	UJ	**0.064**	J	0.019	UJ	0.02	UJ	**0.35**	J	0.022	UJ
Nickel	6020B	7440-02-0	22,000 (3)	1,500 (3)	**24**		**22**		**19**		**20**		**18**		**11**		**130**		**77**		**10**		**14**	
Potassium	6020B	7440-09-7	NE	NE	**1200**		**1600**		**3100**		**2000**		**2700**		**1600**		**1900**		**1700**		**2700**		**1900**	
Selenium	6020B	7782-49-2	5,800	390	**0.94**	J	0.53	U	0.65	U	**1**	J	**2.8**		**1.6**		**1.7**		**1.3**		**1.4**	J	**3.6**	
Silver	6020B	7440-22-4	5,800	390	**0.14**	J	0.068	U	0.083	U	0.069	U	**0.22**	J	0.064	U	**0.64**		**0.64**		0.073	U	0.064	U
Sodium	6020B	7440-23-5	NE	NE	**240**		**58**	J	**250**		**88**	J	**290**		**49**	J	**290**		**510**		**250**		**63**	J
Thallium	6020B	7440-28-0	12	0.78	**0.12**	J	**0.23**		**0.13**	J	**0.37**		**0.11**	J	**0.14**		**0.083**	J	**0.066**	J	**0.11**	J	**0.29**	
Vanadium	6020B	7440-62-2	5,800	390	**28**		**25**		**120**		**37**		**150**		**20**		**42**		**74**		**140**		**32**	
Zinc	6020B	7440-66-6	350,000	23,000	**55**	J	**78**	J	**93**	J	**86**	J	**79**	J	**49**	J	**23**	J	**14**	J	**49**	J	**59**	J
Cyanide	9012B	57-12-5	150	23	0.26	U	**0.5**	J	0.28	U	0.25	U	**41**		0.23	U	0.21	U	**59**		**160**		**2.9**	
Volatile Organic Compounds (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	**B4-1/ 0-2'**	**Q**	**B4-2/ 9-10'**	**Q**	**B5-1/ 0-2'**	**Q**	**B5-2/ 11-12'**	**Q**	**B6-1/ 0-1'**	**Q**	**B6-2/ 6-7'**	**Q**	**B7-1/ 0-2'**	**Q**	**B7-2/ 10-12'**	**Q**	**B8-1/ 1-2'**	**Q**	**B8-2/ 9-10'**	**Q**
Acetone	8260D	67-64-1	1,100,000	70,000	**0.018**	J	**0.026**		**0.02**	J	0.0066	U	NS		0.0086	U	NS		0.011	U	**0.031**		**0.14**	
Benzene	8260D	71-43-2	5.1	1.2	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	**0.016**		0.0016	U
Bromochloromethane	8260D	74-97-5	630	150	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Bromodichloromethane	8260D	75-27-4	1.3	0.29	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Bromoform	8260D	75-25-2	86	19	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Bromomethane (Methyl bromide)	8260D	74-83-9	30	6.8	0.0041	U	0.0031	U	0.0035	U	0.0025	U	NS		0.0032	U	NS		0.0042	U	0.0051	U	0.0023	U
2-Butanone (MEK)	8260D	78-93-3	190,000	27,000	0.0055	U	0.0041	U	0.0047	U	0.0033	U	NS		0.0043	U	NS		0.0056	U	**0.012**	J	**0.037**	
Carbon disulfide	8260D	75-15-0	3,500	770	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Carbon tetrachloride	8260D	56-23-5	2.9	0.65	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Chlorobenzene	8260D	108-90-7	1,300	280	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Chloroethane	8260D	75-00-3	23,000	5,400	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Chloroform	8260D	67-66-3	1.4	0.32	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Chloromethane (Methyl chloride)	8260D	74-87-3	460	110	0.0041	U	0.0031	U	0.0035	U	0.0025	U	NS		0.0032	U	NS		0.0042	U	0.0051	U	0.0023	U
Cyclohexane	8260D	110-82-7	27,000	6,500	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	**0.0088**	J
1,2-Dibromo-3-chloropropane (DBCP)	8260D	96-12-8	0.01	0.06	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Dibromochloromethane	8260D	124-48-1	39	8.3	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
1,2-Dibromoethane (EDB)	8260D	106-93-4	0.16	0.04	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
1,2-Dichlorobenzene	8260D	95-50-1	9,300	1,800	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
1,3-Dichlorobenzene	8260D	541-73-1	NE	NE	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
1,4-Dichlorobenzene	8260D	106-46-7	11	2.6	0.0028	UJ	0.002	UJ	0.0024	UJ	0.0017	UJ	NS		0.0022	UJ	NS		0.0028	UJ	0.0034	UJ	0.0016	UJ
Dichlorodifluoromethane	8260D	75-71-8	370	87	0.0041	U	0.0031	U	0.0035	U	0.0025	U	NS		0.0032	U	NS		0.0042	U	0.0051	U	0.0023	U
1,1-Dichloroethane	8260D	75-34-3	16	3.6	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
1,2-Dichloroethane	8260D	107-06-2	2	0.46	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
1,1-Dichloroethene	8260D	75-35-4	1,000	230	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
cis-1,2-Dichloroethene	8260D	156-59-2	2,300	160	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
trans-1,2-Dichloroethene	8260D	156-60-5	300	70	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
1,2-Dichloropropane	8260D	78-87-5	11	2.5	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
cis-1,3-Dichloropropene	8260D	10061-01-5	NE	NE	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
trans-1,3-Dichloropropene	8260D	10061-02-6	NE	NE	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Ethylbenzene	8260D	100-41-4	25	5.8	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
2-Hexanone	8260D	591-78-6	1,300	200	0.0055	U	0.0041	U	0.0047	U	0.0033	U	NS		0.0043	U	NS		0.0056	U	0.0068	U	0.0031	U
Isopropylbenzene	8260D	98-82-8	9,900	1,900	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	**0.057**	
Methyl acetate	8260D	79-20-9	1,200,000	78,000	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U

Table 2-2: Summary of Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)																			
					B4-1/ 0-2'	Q	B4-2/ 9-10'	Q	B5-1/ 0-2'	Q	B5-2/ 11-12'	Q	B6-1/ 0-1'	Q	B6-2/ 6-7'	Q	B7-1/ 0-2'	Q	B7-2/ 10-12'	Q	B8-1/ 1-2'	Q	B8-2/ 9-10'	Q
Methyl tertiary butyl ether (MTBE)	8260D	1634-04-4	210	47	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
4-Methyl-2-pentanone	8260D	108-10-1	140,000	33,000	0.0055	U	0.0041	U	0.0047	U	0.0033	U	NS		0.0043	U	NS		0.0056	U	0.0068	U	0.0031	U
Methylcyclohexane	8260D	108-87-2	NE	NE	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	**0.058**	
Methylene chloride	8260D	75-09-2	1,000	57	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Styrene	8260D	100-42-5	35,000	6,000	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
1,1,2,2-Tetrachloroethane	8260D	79-34-5	2.7	0.6	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Tetrachloroethene	8260D	127-18-4	100	24	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Toluene	8260D	108-88-3	47,000	4,900	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	**0.01**		0.0016	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	8260D	76-13-1	28,000	6,700	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
1,2,3-Trichlorobenzene	8260D	87-61-6	930	63	0.0028	UJ	0.002	UJ	0.0024	UJ	0.0017	UJ	NS		0.0022	UJ	NS		0.0028	UJ	0.0034	UJ	0.0016	UJ
1,2,4-Trichlorobenzene	8260D	120-82-1	110	24	0.0028	UJ	0.002	UJ	0.0024	UJ	0.0017	UJ	NS		0.0022	UJ	NS		0.0028	UJ	0.0034	UJ	0.0016	UJ
1,1,1-Trichloroethane	8260D	71-55-6	36,000	8,100	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
1,1,2-Trichloroethane	8260D	79-00-5	5	1.1	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Trichloroethene	8260D	79-01-6	6	0.94	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Trichlorofluoromethane	8260D	75-69-4	350,000	23,000	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Vinyl chloride	8260D	75-01-4	1.7	0.06	0.0041	U	0.0031	U	0.0035	U	0.0025	U	NS		0.0032	U	NS		0.0042	U	0.0051	U	0.0023	U
m+p - Xylenes	8260D	179601-23-1	2,400	560	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
o - Xylenes	8260D	95-47-6	2,800	640	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Semivolatile Organic Compounds (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	**B4-1/ 0-2'**	**Q**	**B4-2/ 9-10'**	**Q**	**B5-1/ 0-2'**	**Q**	**B5-2/ 11-12'**	**Q**	**B6-1/ 0-1'**	**Q**	**B6-2/ 6-7'**	**Q**	**B7-1/ 0-2'**	**Q**	**B7-2/ 10-12'**	**Q**	**B8-1/ 1-2'**	**Q**	**B8-2/ 9-10'**	**Q**
Acenaphthene	8270E	83-32-9	45,000	3,600	0.011	U	**0.001**	**J**	0.011	U	0.001	U	NS		0.0094	U	0.0085	U	0.0089	U	**0.75**		**5.3**	
Acenaphthylene	8270E	208-96-8	23,000 (4)	1,800 (4)	0.012	U	0.0012	U	0.013	U	0.0012	U	NS		0.011	U	0.0097	U	0.01	U	**3.6**		0.058	U
Acetophenone	8270E	98-86-2	120,000	7,800	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
Anthracene	8270E	120-12-7	230,000	18,000	**0.036**	**B**	**0.0014**	**BJ**	0.007	U	0.00063	U	NS		0.0058	U	**0.018**	**J**	0.0055	U	**5.3**		0.031	U
Atrazine	8270E	1912-24-9	10	2.4	0.065	UJ	0.0061	UJ	0.069	UJ	0.0062	UJ	NS		0.057	UJ	0.051	UJ	0.054	UJ	0.13	UJ	0.3	UJ
Benzaldehyde	8270E	100-52-7	820	170	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
Benzo(a)anthracene	8270E	56-55-3	21	1.1	**0.14**		**0.0069**		0.0081	U	0.00073	U	NS		**0.029**	**J**	**0.068**		**0.04**		**19**		**0.2**	
Benzo(a)pyrene	8270E	50-32-8	2.1	0.11	**0.17**	**B**	**0.011**	**B**	0.009	U	**0.00083**	**BJ**	NS		**0.034**		**0.11**		**0.042**		**22**		**0.14**	**J**
Benzo(b)fluoranthene	8270E	205-99-2	21	1.1	**0.43**		**0.014**		0.0069	U	**0.00079**	**J**	NS		**0.041**		**0.15**		**0.073**		**27**		**0.12**	**J**
Benzo(g,h,i)perylene	8270E	191-24-2	23,000 (4)	1,800 (4)	**0.12**	**BJ**	**0.012**	**BJ**	0.0089	UJ	**0.0012**	**BJ**	NS		0.0074	UJ	**0.078**	**J**	**0.034**	**J**	**5**	**J**	**0.095**	**J**
Benzo(k)fluoranthene	8270E	207-08-9	210	11	0.0062	U	**0.0062**		0.0066	U	0.0006	U	NS		**0.015**	**J**	**0.058**		**0.023**	**J**	**11**		0.029	U
1,1'-Biphenyl	8270E	92-52-4	200	47	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	**0.15**	**J**	0.3	U
4-Bromophenyl phenyl ether	8270E	101-55-3	NE	NE	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
Butyl benzyl phthalate	8270E	85-68-7	1,200	290	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
Caprolactam	8270E	105-60-2	400,000	31,000	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
Carbazole	8270E	86-74-8	NE	NE	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	**1.4**		0.3	U
bis (2-Chloro-1-methylethyl) ether	8270E	108-60-1	47,000	3,100	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
4-Chloro-3-methyl phenol	8270E	59-50-7	82,000	6,300	0.065	UJ	0.0061	UJ	0.069	UJ	0.0062	UJ	NS		0.057	UJ	0.051	UJ	0.054	UJ	0.13	UJ	0.3	UJ
4-Chloroaniline	8270E	106-47-8	11	2.7	0.065	UJ	0.0061	UJ	0.069	UJ	0.0062	UJ	NS		0.057	UJ	0.051	UJ	0.054	UJ	0.13	UJ	0.3	UJ
bis(2-Chloroethoxy)methane	8270E	111-91-1	2,500	190	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
bis(2-Chloroethyl)ether	8270E	111-44-4	1	0.23	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
2-Chloronaphthalene	8270E	91-58-7	60,000	4,800	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
2-Chlorophenol	8270E	95-57-8	5,800	390	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	UJ	0.051	UJ	0.054	UJ	0.13	UJ	0.3	U
4-Chlorophenyl phenyl ether	8270E	7005-72-3	NE	NE	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
Chrysene	8270E	218-01-9	2100	110	**0.26**		**0.0073**		0.0062	U	0.00056	U	NS		**0.03**	**J**	**0.075**		**0.042**		**20**		**0.2**	
Dibenzo(a,h)anthracene	8270E	53-70-3	2.1	0.11	0.0066	U	0.00062	U	0.007	U	0.00063	U	NS		0.0058	U	0.0052	U	0.0055	U	0.014	U	0.031	U
Dibenzofuran	8270E	132-64-9	1,200	78	**0.15**	**J**	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	**0.67**		**1.8**	
3,3'-Dichlorobenzidine	8270E	91-94-1	5.1	1.2	0.065	UJ	0.0061	UJ	0.069	UJ	0.0062	UJ	NS		0.057	UJ	0.051	UJ	0.054	UJ	0.13	UJ	0.3	UJ
2,4-Dichlorophenol	8270E	120-83-2	2,500	190	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	UJ	0.051	UJ	0.054	UJ	0.13	UJ	0.3	U
Diethylphthalate	8270E	84-66-2	660,000	51,000	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
Dimethyl phthalate	8270E	131-11-3	NE	NE	0.096	U	0.009	U	0.1	U	0.0092	U	NS		0.084	U	0.076	U	0.079	U	0.2	U	0.45	U
2,4-Dimethylphenol	8270E	105-67-9	16,000	1,300	0.065	UJ	0.0061	UJ	0.069	UJ	0.0062	UJ	NS		0.057	UJ	0.051	UJ	0.054	UJ	0.13	UJ	0.3	UJ
Di-n-butyl phthalate	8270E	84-74-2	82,000	6,300	0.065	U	**0.023**		0.069	U	**0.028**		NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
4,6-Dinitro-2-methylphenol	8270E	534-52-1	66	5.1	0.33	U	0.031	U	0.34	U	0.031	U	NS		0.28	UJ	0.26	UJ	0.27	UJ	0.67	UJ	1.5	U
2,4-Dinitrophenol	8270E	51-28-5	1,600	130	0.33	U	0.031	U	0.34	U	0.031	U	NS		0.28	UJ	0.26	UJ	0.27	UJ	0.67	UJ	1.5	U
2,4-Dinitrotoluene	8270E	121-14-2	7.4	1.7	0.13	U	0.012	U	0.14	U	0.012	U	NS		0.11	U	0.1	U	0.11	U	0.27	U	0.61	U
2,6-Dinitrotoluene	8270E	606-20-2	1.5	0.36	0.13	U	0.012	U	0.14	U	0.012	U	NS		0.11	U	0.1	U	0.11	U	0.27	U	0.61	U
Di-n-octylphthalate	8270E	117-84-0	8,200	630	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
1,4-Dioxane	8270E	123-91-1	24	5.3	0.13	U	0.012	U	0.14	U	0.012	U	NS		0.11	U	0.1	U	0.11	U	0.27	U	0.61	U

Table 2-2: Summary of Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)																			
					B4-1/ 0-2'	Q	B4-2/ 9-10'	Q	B5-1/ 0-2'	Q	B5-2/ 11-12'	Q	B6-1/ 0-1'	Q	B6-2/ 6-7'	Q	B7-1/ 0-2'	Q	B7-2/ 10-12'	Q	B8-1/ 1-2'	Q	B8-2/ 9-10'	Q
bis(2-Ethylhexyl)phthalate	8270E	117-81-7	160	39	0.33	U	0.031	U	0.34	U	0.031	U	NS		0.28	U	0.26	U	0.27	U	0.67	U	1.5	U
Fluoranthene	8270E	206-44-0	30,000	2,400	**0.24**		**0.01**		**0.019**	**J**	**0.00068**	**J**	NS		**0.033**		**0.13**		**0.073**		**39**		**0.99**	
Fluorene	8270E	86-73-7	30,000	2,400	0.0074	U	**0.00078**	**J**	0.0078	U	0.00071	U	NS		0.0065	U	0.0058	U	0.0061	U	**1.5**		**4.2**	
Hexachlorobenzene	8270E	118-74-1	0.96	0.21	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
Hexachlorobutadiene	8270E	87-68-3	5.3	1.2	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
Hexachlorocyclopentadiene	8270E	77-47-4	7.5	1.8	0.33	UJ	0.031	UJ	0.34	UJ	0.031	UJ	NS		0.28	UJ	0.26	UJ	0.27	UJ	0.67	UJ	1.5	UJ
Hexachloroethane	8270E	67-72-1	8	1.8	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
Indeno(1,2,3-c,d)pyrene	8270E	193-39-5	21	1.1	**0.1**		**0.0089**		0.014	U	0.0012	U	NS		0.011	U	**0.07**		**0.028**	**J**	**5.8**		0.061	U
Isophorone	8270E	78-59-1	2,400	570	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
2-Methylnaphthalene	8270E	91-57-6	3,000	240	**0.42**		**0.0035**		0.014	U	0.0012	U	NS		0.011	U	**0.025**	**J**	0.011	U	**0.65**		**24**	
2-Methylphenol	8270E	95-48-7	41,000	3,200	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	UJ	0.051	UJ	0.054	UJ	0.13	UJ	0.3	U
3+4-Methylphenol (1)	8270E	106-44-5	82,000 (1)	6,300 (1)	0.13	UJ	0.012	UJ	0.14	UJ	0.012	UJ	NS		0.11	UJ	0.1	UJ	0.11	UJ	0.27	UJ	0.61	UJ
Naphthalene	8270E	91-20-3	8.6	2	**0.3**	**J**	**0.0034**	**J**	0.013	UJ	0.0012	UJ	NS		0.011	UJ	0.0099	UJ	0.01	UJ	**0.82**	**J**	0.059	UJ
2-Nitroaniline	8270E	88-74-4	8,000	630	0.13	U	0.012	U	0.14	U	0.012	U	NS		0.11	U	0.1	U	0.11	U	0.27	U	0.61	U
3-Nitroaniline	8270E	99-09-2	NE	NE	0.13	UJ	0.012	UJ	0.14	UJ	0.012	UJ	NS		0.11	UJ	0.1	UJ	0.11	UJ	0.27	UJ	0.61	UJ
4-Nitroaniline	8270E	100-01-6	110	27	0.13	UJ	0.012	UJ	0.14	UJ	0.012	UJ	NS		0.11	UJ	0.1	UJ	0.11	UJ	0.27	UJ	0.61	UJ
Nitrobenzene	8270E	98-95-3	22	5.1	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
2-Nitrophenol	8270E	88-75-5	NE	NE	0.13	U	0.012	U	0.14	U	0.012	U	NS		0.11	UJ	0.1	UJ	0.11	U	0.27	UJ	0.61	U
4-Nitrophenol	8270E	100-02-7	NE	NE	0.33	UJ	0.031	UJ	0.34	UJ	0.031	UJ	NS		0.28	UJ	0.26	UJ	0.27	UJ	0.67	UJ	1.5	UJ
N-Nitrosodi-n-propylamine	8270E	621-64-7	0.33	0.08	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
N-Nitrosodiphenylamine (Diphenylamine)	8270E	86-30-6	470	110	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
Pentachlorophenol	8270E	87-86-5	4	1	0.33	UJ	0.031	UJ	0.34	UJ	0.031	UJ	NS		0.28	UJ	0.26	UJ	0.27	UJ	0.67	UJ	1.5	UJ
Phenanthrene	8270E	85-01-8	23,000 (4)	1,800 (4)	**0.45**	**B**	**0.0091**	**B**	0.0099	U	0.00089	U	NS		0.0081	U	**0.14**		**0.038**		**21**		**11**	
Phenol	8270E	108-95-2	250,000	19,000	0.065	UJ	0.0061	UJ	0.069	UJ	0.0062	UJ	NS		0.057	UJ	0.051	UJ	0.054	UJ	0.13	UJ	0.3	UJ
Pyrene	8270E	129-00-0	23,000	1,800	**0.19**	**B**	**0.0086**	**B**	0.0069	U	0.00062	U	NS		**0.024**	**J**	**0.11**		**0.055**		**31**		**1.9**	
1,2,4,5-Tetrachlorobenzene	8270E	95-94-3	35	2.3	0.13	U	0.012	U	0.14	U	0.012	U	NS		0.11	U	0.1	U	0.11	U	0.27	U	0.61	U
2,3,4,6-Tetrachlorophenol	8270E	58-90-2	25,000	1,900	0.13	UJ	0.012	UJ	0.14	UJ	0.012	UJ	NS		0.11	UJ	0.1	UJ	0.11	UJ	0.27	UJ	0.61	UJ
2,4,5-Trichlorophenol	8270E	95-95-4	82,000	6,300	0.065	UJ	0.0061	UJ	0.069	UJ	0.0062	UJ	NS		0.057	UJ	0.051	UJ	0.054	UJ	0.13	UJ	0.3	UJ
2,4,6-Trichlorophenol	8270E	88-06-2	210	49	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	UJ	0.051	UJ	0.054	UJ	0.13	UJ	0.3	U
Polychlorinated Biphenyls; Aroclors (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	**B4-1/ 0-2'**	**Q**	**B4-2/ 9-10'**	**Q**	**B5-1/ 0-2'**	**Q**	**B5-2/ 11-12'**	**Q**	**B6-1/ 0-1'**	**Q**	**B6-2/ 6-7'**	**Q**	**B7-1/ 0-2'**	**Q**	**B7-2/ 10-12'**	**Q**	**B8-1/ 1-2'**	**Q**	**B8-2/ 9-10'**	**Q**
Aroclor 1016	8082A	12674-11-2	27	4.1	0.0036	UJ	0.0033	UJ	NS		NS		NS		NS		0.0028	UJ	0.0029	UJ	NS		NS	
Aroclor 1221	8082A	11104-28-2	0.83	0.2	0.0031	UJ	0.0028	UJ	NS		NS		NS		NS		0.0024	UJ	0.0025	UJ	NS		NS	
Aroclor 1232	8082A	11141-16-5	0.72	0.17	0.0028	UJ	0.0026	UJ	NS		NS		NS		NS		0.0022	UJ	0.0023	UJ	NS		NS	
Aroclor 1242	8082A	53469-21-9	0.95	0.23	0.0021	UJ	0.0019	UJ	NS		NS		NS		NS		0.0016	UJ	0.0017	UJ	NS		NS	
Aroclor 1248	8082A	12672-29-6	0.94	0.23	0.0054	UJ	0.005	UJ	NS		NS		NS		NS		0.0042	UJ	0.0044	UJ	NS		NS	
Aroclor 1254	8082A	11097-69-1	0.97	0.24	0.0033	UJ	0.0031	UJ	NS		NS		NS		NS		0.0026	UJ	0.0027	UJ	NS		NS	
Aroclor 1260	8082A	11096-82-5	0.99	0.24	0.0032	UJ	0.003	UJ	NS		NS		NS		NS		0.0025	UJ	0.0026	UJ	NS		NS	
Aroclor 1262	8082A	37324-23-5	NE	NE	0.0028	UJ	0.0026	UJ	NS		NS		NS		NS		0.0022	UJ	0.0022	UJ	NS		NS	
Aroclor 1268	8082A	11100-14-4	NE	NE	0.0019	UJ	0.0018	UJ	NS		NS		NS		NS		0.0015	UJ	0.0015	UJ	NS		NS	

Notes:
U - Denotes analyte not detected at or above method detection limit or quantitation limit.
U J - Denotes analyte not detected at or above method detection limit (MDL) or quantitation limit (QL) and MDL and QL are estimated. See data validation report for additional information.
J - Denotes estimated value.
NS - Denotes not sampled.
NE - Denotes not established.
RSL - Denotes Regional Screening Level - United States Environmental Protection Agency Region Regional Screening Level (RSL) Summary Table November 2021 (TR=1E-06 THQ=1.0)
https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
VRP Tier III Industrial Soil Screening Level (mg/kg)- Virginia Department of Environmental Quality Voluntary Remediation Program Screening Levels (VRP); Based on EPA Region 3 RSL Update: November 2019
Q - Denotes data validation qualifier.
B - Denotes result considered influenced by laboratory contamination
JB - Denotes result considered influenced by laboratory contamination and result/QL considered estimated
(1) 3-Methylphenol and 4-Methylphenol cannot be resolved. Result is combination of both results.
(2) Chromium III, Insoluble Salts was selected as a screening value for total chromium.
(3) Nickel Soluble Salts was selected as the screening value for total nickel.
(4) Pyrene was selected as a surrogate for non-carcenogenic PAHs (acenaphthylene, benzo[g,h,i]perylene and phenanthrene).
(5) Chromium VRP limit based on hexavalent chromium screening limit
Due to limitations of analytical methods and budget constraints, there may be certain instances where the laboratory quantitation or detection limits are greater than the project action levels. However, this should not hinder this assessment, as a comprehensive review of all analytical results across the site will help determine if further evaluation beyond the scope of this assessment may be required.

Table 2-3: Summary of Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)															
					B9-1/ 0-1'	Q	B9-2/ 9-10'	Q	B10-1/ 0-1'	Q	B11-1/ 0-1'	Q	B11-2/ 9-10'	Q	B12-1/ 0-1'	Q	B12-2/ 6-7'	Q	B12-3/ 14-15'	Q
Inorganic Compounds (mg/kg)																				
Aluminum	6020B	7429-90-5	1,100,000	77,000	**18000**		**15000**		**13000**		**30000**		**13000**		**16000**		NS		NS	
Antimony	6020B	7440-36-0	470	31	0.19	U	0.21	U	0.21	U	**0.67**	**J**	0.2	U	**0.32**	**J**	NS		NS	
Arsenic	6020B	7440-38-2	3	0.68	**0.79**		**2.5**		**0.66**		**6**		**6.6**		**7.8**		NS		NS	
Barium	6020B	7440-39-3	220,000	15,000	**210**	J	**92**	J	**230**	J	**280**	J	**170**	J	**140**	J	NS		NS	
Beryllium	6020B	7440-41-7	2,300	160	**1.1**		**0.53**		**1.3**		**1.6**		**1**		**0.86**		NS		NS	
Cadmium	6020B	7440-43-9	100	7.1	**0.11**	**J**	**0.05**	**J**	**0.16**		**0.26**		**0.33**		**0.44**		NS		NS	
Calcium	6020B	7440-70-2	NE	NE	**1500**		**820**		**1800**		**61000**		**1600**		**26000**		NS		NS	
Chromium	6020B	7440-47-3	1,800,000 (2)	120,000 (2)	**17**		**14**		**12**		**32**		**16**		**22**		NS		NS	
Cobalt	6020B	7440-48-4	350	23	**37**		**6.8**		**45**		**17**		**14**		**14**		NS		NS	
Copper	6020B	7440-50-8	47,000	3,100	**94**	J	**8.3**	J	**110**	J	**56**	J	**16**	J	**79**	**JB**	NS		NS	
Iron	6020B	7439-89-6	820,000	55,000	**57000**		**26000**		**75000**		**59000**		**25000**		**27000**		NS		NS	
Lead	6020B	7439-92-1	800	400	**23**	J	**28**	J	**23**	J	**86**	J	**18**	J	**74**	J	NS		NS	
Magnesium	6020B	7439-95-4	NE	NE	**6800**		**3100**		**4300**		**7200**		**2000**		**4200**		NS		NS	
Manganese	6020B	7439-96-5	26,000	1,800	**620**		**310**		**690**		**1000**		**640**		**510**		NS		NS	
Mercury	7471B	7439-97-6	46	11	**0.098**	**J**	**0.06**	**J**	0.021	UJ	**0.36**	**J**	0.021	UJ	**0.21**	**J**	NS		NS	
Nickel	6020B	7440-02-0	22,000 (3)	1,500 (3)	**18**		**7.6**		**22**		**28**		**26**		**24**		NS		NS	
Potassium	6020B	7440-09-7	NE	NE	**3900**		**2800**		**2500**		**4400**		**1600**		**2400**		NS		NS	
Selenium	6020B	7782-49-2	5,800	390	**2.2**		**0.55**	**J**	**0.55**	**J**	**1.2**	**J**	**0.56**	**J**	**0.51**	**J**	NS		NS	
Silver	6020B	7440-22-4	5,800	390	0.057	U	0.064	U	0.064	U	**0.099**	**J**	0.059	U	**0.18**	**J**	NS		NS	
Sodium	6020B	7440-23-5	NE	NE	**88**	**J**	**54**	**J**	**55**	**J**	**160**		**64**	**J**	**62**	**J**	NS		NS	
Thallium	6020B	7440-28-0	12	0.78	**0.1**	**J**	**0.41**		**0.11**	**J**	**0.51**		**0.25**		**0.33**		NS		NS	
Vanadium	6020B	7440-62-2	5,800	390	**200**		**25**		**140**		**57**		**28**		**44**		NS		NS	
Zinc	6020B	7440-66-6	350,000	23,000	**120**	J	**53**	J	**140**	J	**160**	J	**83**	J	**120**	J	NS		NS	
Cyanide	9012B	57-12-5	150	23	0.22	U	0.22	U	0.24	U	0.31	U	0.24	U	0.23	U	**0.3**	**J**	NS	
Volatile Organic Compounds (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	**B9-1/ 0-1'**	**Q**	**B9-2/ 9-10'**	**Q**	**B10-1/ 0-1'**	**Q**	**B11-1/ 0-1'**	**Q**	**B11-2/ 9-10'**	**Q**	**B12-1/ 0-1'**	**Q**	**B12-2/ 6-7'**	**Q**	**B12-3/ 14-15'**	**Q**
Acetone	8260D	67-64-1	1,100,000	70,000	NS		0.0084	U	NS		0.011	U	0.0071	U	0.011	U	**0.088**		**0.026**	
Benzene	8260D	71-43-2	5.1	1.2	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Bromochloromethane	8260D	74-97-5	630	150	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Bromodichloromethane	8260D	75-27-4	1.3	0.29	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Bromoform	8260D	75-25-2	86	19	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Bromomethane (Methyl bromide)	8260D	74-83-9	30	6.8	NS		0.0031	U	NS		0.0042	U	0.0027	U	0.0042	U	0.0026	U	0.0036	U
2-Butanone (MEK)	8260D	78-93-3	190,000	27,000	NS		0.0042	U	NS		0.0055	U	0.0036	U	0.0056	U	**0.026**		0.0049	U
Carbon disulfide	8260D	75-15-0	3,500	770	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Carbon tetrachloride	8260D	56-23-5	2.9	0.65	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Chlorobenzene	8260D	108-90-7	1,300	280	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Chloroethane	8260D	75-00-3	23,000	5,400	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Chloroform	8260D	67-66-3	1.4	0.32	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Chloromethane (Methyl chloride)	8260D	74-87-3	460	110	NS		0.0031	U	NS		0.0042	U	0.0027	U	0.0042	U	0.0026	U	0.0036	U
Cyclohexane	8260D	110-82-7	27,000	6,500	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
1,2-Dibromo-3-chloropropane (DBCP)	8260D	96-12-8	0.01	0.06	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Dibromochloromethane	8260D	124-48-1	39	8.3	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
1,2-Dibromoethane (EDB)	8260D	106-93-4	0.16	0.04	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
1,2-Dichlorobenzene	8260D	95-50-1	9,300	1,800	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
1,3-Dichlorobenzene	8260D	541-73-1	NE	NE	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
1,4-Dichlorobenzene	8260D	106-46-7	11	2.6	NS		0.0021	UJ	NS		0.0028	UJ	0.0018	UJ	0.0028	UJ	0.0018	UJ	0.0024	UJ
Dichlorodifluoromethane	8260D	75-71-8	370	87	NS		0.0031	U	NS		0.0042	U	0.0027	U	0.0042	U	0.0026	U	0.0036	U
1,1-Dichloroethane	8260D	75-34-3	16	3.6	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
1,2-Dichloroethane	8260D	107-06-2	2	0.46	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
1,1-Dichloroethene	8260D	75-35-4	1,000	230	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
cis-1,2-Dichloroethene	8260D	156-59-2	2,300	160	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
trans-1,2-Dichloroethene	8260D	156-60-5	300	70	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
1,2-Dichloropropane	8260D	78-87-5	11	2.5	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U

Table 2-3: Summary of Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)															
					B9-1/ 0-1'	Q	B9-2/ 9-10'	Q	B10-1/ 0-1'	Q	B11-1/ 0-1'	Q	B11-2/ 9-10'	Q	B12-1/ 0-1'	Q	B12-2/ 6-7'	Q	B12-3/ 14-15'	Q
cis-1,3-Dichloropropene	8260D	10061-01-5	NE	NE	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
trans-1,3-Dichloropropene	8260D	10061-02-6	NE	NE	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Ethylbenzene	8260D	100-41-4	25	5.8	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
2-Hexanone	8260D	591-78-6	1,300	200	NS		0.0042	U	NS		0.0055	U	0.0036	U	0.0056	U	0.0035	U	0.0049	U
Isopropylbenzene	8260D	98-82-8	9,900	1,900	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Methyl acetate	8260D	79-20-9	1,200,000	78,000	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Methyl tertiary butyl ether (MTBE)	8260D	1634-04-4	210	47	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
4-Methyl-2-pentanone	8260D	108-10-1	140,000	33,000	NS		0.0042	U	NS		0.0055	U	0.0036	U	0.0056	U	0.0035	U	0.0049	U
Methylcyclohexane	8260D	108-87-2	NE	NE	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Methylene chloride	8260D	75-09-2	1,000	57	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Styrene	8260D	100-42-5	35,000	6,000	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
1,1,2,2-Tetrachloroethane	8260D	79-34-5	2.7	0.6	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Tetrachloroethene	8260D	127-18-4	100	24	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Toluene	8260D	108-88-3	47,000	4,900	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	8260D	76-13-1	28,000	6,700	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
1,2,3-Trichlorobenzene	8260D	87-61-6	930	63	NS		0.0021	UJ	NS		0.0028	UJ	0.0018	UJ	0.0028	UJ	0.0018	UJ	0.0024	UJ
1,2,4-Trichlorobenzene	8260D	120-82-1	110	24	NS		0.0021	UJ	NS		0.0028	UJ	0.0018	UJ	0.0028	UJ	0.0018	UJ	0.0024	UJ
1,1,1-Trichloroethane	8260D	71-55-6	36,000	8,100	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
1,1,2-Trichloroethane	8260D	79-00-5	5	1.1	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Trichloroethene	8260D	79-01-6	6	0.94	NS		0.0021	U	NS		0.0028	U	0.0018	U	**0.0035**	**J**	0.0018	U	0.0024	U
Trichlorofluoromethane	8260D	75-69-4	350,000	23,000	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Vinyl chloride	8260D	75-01-4	1.7	0.06	NS		0.0031	U	NS		0.0042	U	0.0027	U	0.0042	U	0.0026	U	0.0036	U
m+p - Xylenes	8260D	179601-23-1	2,400	560	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
o - Xylenes	8260D	95-47-6	2,800	640	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Semivolatile Organic Compounds (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	**B9-1/ 0-1'**	**Q**	**B9-2/ 9-10'**	**Q**	**B10-1/ 0-1'**	**Q**	**B11-1/ 0-1'**	**Q**	**B11-2/ 9-10'**	**Q**	**B12-1/ 0-1'**	**Q**	**B12-2/ 6-7'**	**Q**	**B12-3/ 14-15'**	**Q**
Acenaphthene	8270E	83-32-9	45,000	3,600	NS		0.0046	U	NS		**0.031**	**J**	0.00097	U	**0.21**		**0.069**		0.001	U
Acenaphthylene	8270E	208-96-8	23,000 (4)	1,800 (4)	NS		0.0053	U	NS		**0.063**		0.0011	U	**0.48**		0.0069	U	0.0012	U
Acetophenone	8270E	98-86-2	120,000	7,800	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Anthracene	8270E	120-12-7	230,000	18,000	NS		0.0028	U	NS		**0.11**	**B**	0.0006	U	**1**	**B**	**0.075**	**B**	0.00062	U
Atrazine	8270E	1912-24-9	10	2.4	NS		0.028	UJ	NS		0.077	UJ	0.0059	UJ	0.12	UJ	0.036	UJ	0.0061	UJ
Benzaldehyde	8270E	100-52-7	820	170	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Benzo(a)anthracene	8270E	56-55-3	21	1.1	NS		0.0033	U	NS		**0.61**		0.00069	U	**3.7**		**0.059**		0.00072	U
Benzo(a)pyrene	8270E	50-32-8	2.1	0.11	NS		0.0037	U	NS		**0.75**	**B**	0.00077	U	**4.1**	**B**	**0.057**	**B**	0.0008	U
Benzo(b)fluoranthene	8270E	205-99-2	21	1.1	NS		0.0028	U	NS		**1**		0.00059	U	**4.7**		**0.066**		0.00061	U
Benzo(g,h,i)perylene	8270E	191-24-2	23,000 (4)	1,800 (4)	NS		0.0036	UJ	NS		**0.32**	**BJ**	0.00076	UJ	**1.3**	**BJ**	**0.018**	**BJ**	0.00079	UJ
Benzo(k)fluoranthene	8270E	207-08-9	210	11	NS		0.0027	U	NS		**0.35**		0.00056	U	**1.7**		**0.04**		0.00058	U
1,1'-Biphenyl	8270E	92-52-4	200	47	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
4-Bromophenyl phenyl ether	8270E	101-55-3	NE	NE	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Butyl benzyl phthalate	8270E	85-68-7	1,200	290	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Caprolactam	8270E	105-60-2	400,000	31,000	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	**0.0091**	**J**
Carbazole	8270E	86-74-8	NE	NE	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
bis (2-Chloro-1-methylethyl) ether	8270E	108-60-1	47,000	3,100	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
4-Chloro-3-methyl phenol	8270E	59-50-7	82,000	6,300	NS		0.028	UJ	NS		0.077	UJ	0.0059	UJ	0.12	UJ	0.036	UJ	0.0061	UJ
4-Chloroaniline	8270E	106-47-8	11	2.7	NS		0.028	UJ	NS		0.077	UJ	0.0059	UJ	0.12	UJ	0.036	UJ	0.0061	UJ
bis(2-Chloroethoxy)methane	8270E	111-91-1	2,500	190	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
bis(2-Chloroethyl)ether	8270E	111-44-4	1	0.23	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
2-Chloronaphthalene	8270E	91-58-7	60,000	4,800	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
2-Chlorophenol	8270E	95-57-8	5,800	390	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
4-Chlorophenyl phenyl ether	8270E	7005-72-3	NE	NE	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Chrysene	8270E	218-01-9	2100	110	NS		0.0025	U	NS		**0.71**		0.00053	U	**3.2**		**0.069**		0.00055	U
Dibenzo(a,h)anthracene	8270E	53-70-3	2.1	0.11	NS		0.0028	U	NS		0.0079	U	0.0006	U	**0.42**	**B**	0.0037	U	0.00062	U
Dibenzofuran	8270E	132-64-9	1,200	78	NS		0.028	U	NS		0.077	U	0.0059	U	**0.23**	**J**	**0.042**	**J**	0.0061	U
3,3'-Dichlorobenzidine	8270E	91-94-1	5.1	1.2	NS		0.028	UJ	NS		0.077	UJ	0.0059	UJ	0.12	UJ	0.036	UJ	0.0061	UJ

Table 2-3: Summary of Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)															
					B9-1/ 0-1'	Q	B9-2/ 9-10'	Q	B10-1/ 0-1'	Q	B11-1/ 0-1'	Q	B11-2/ 9-10'	Q	B12-1/ 0-1'	Q	B12-2/ 6-7'	Q	B12-3/ 14-15'	Q
2,4-Dichlorophenol	8270E	120-83-2	2,500	190	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Diethylphthalate	8270E	84-66-2	660,000	51,000	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Dimethyl phthalate	8270E	131-11-3	NE	NE	NS		0.041	U	NS		0.11	U	0.0087	U	0.17	U	0.054	U	0.009	U
2,4-Dimethylphenol	8270E	105-67-9	16,000	1,300	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Di-n-butyl phthalate	8270E	84-74-2	82,000	6,300	NS		0.028	U	NS		0.077	U	**0.023**		0.12	U	0.036	U	**0.021**	
4,6-Dinitro-2-methylphenol	8270E	534-52-1	66	5.1	NS		0.14	U	NS		0.39	U	0.029	U	0.58	U	0.18	U	0.03	U
2,4-Dinitrophenol	8270E	51-28-5	1,600	130	NS		0.14	U	NS		0.39	U	0.029	U	0.58	U	0.18	U	0.03	U
2,4-Dinitrotoluene	8270E	121-14-2	7.4	1.7	NS		0.055	U	NS		0.15	U	0.012	U	0.23	U	0.073	U	0.012	U
2,6-Dinitrotoluene	8270E	606-20-2	1.5	0.36	NS		0.055	U	NS		0.15	U	0.012	U	0.23	U	0.073	U	0.012	U
Di-n-octylphthalate	8270E	117-84-0	8,200	630	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
1,4-Dioxane	8270E	123-91-1	24	5.3	NS		0.055	U	NS		0.15	U	0.012	U	0.23	U	0.073	U	0.012	U
bis(2-Ethylhexyl)phthalate	8270E	117-81-7	160	39	NS		0.14	U	NS		0.39	U	0.029	U	0.58	U	0.18	U	0.03	U
Fluoranthene	8270E	206-44-0	30,000	2,400	NS		0.0023	U	NS		**1.2**		0.00049	U	**6.6**		**0.13**		0.00051	U
Fluorene	8270E	86-73-7	30,000	2,400	NS		0.0032	U	NS		**0.023**	J	0.00067	U	**0.26**		**0.11**		0.00069	U
Hexachlorobenzene	8270E	118-74-1	0.96	0.21	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Hexachlorobutadiene	8270E	87-68-3	5.3	1.2	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Hexachlorocyclopentadiene	8270E	77-47-4	7.5	1.8	NS		0.14	UJ	NS		0.39	UJ	0.029	UJ	0.58	UJ	0.18	UJ	0.03	UJ
Hexachloroethane	8270E	67-72-1	8	1.8	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Indeno(1,2,3-c,d)pyrene	8270E	193-39-5	21	1.1	NS		0.0055	U	NS		**0.31**		0.0012	U	0.023	U	**0.019**	J	0.0012	U
Isophorone	8270E	78-59-1	2,400	570	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
2-Methylnaphthalene	8270E	91-57-6	3,000	240	NS		0.0055	U	NS		**0.038**	J	0.0012	U	**0.32**		**0.05**		0.0012	U
2-Methylphenol	8270E	95-48-7	41,000	3,200	NS		0.028	UJ	NS		0.077	UJ	0.0059	UJ	0.12	UJ	0.036	UJ	0.0061	UJ
3+4-Methylphenol (1)	8270E	106-44-5	82,000 (1)	6,300 (1)	NS		0.055	UJ	NS		0.15	UJ	0.012	UJ	0.23	UJ	0.073	UJ	0.012	UJ
Naphthalene	8270E	91-20-3	8.6	2	NS		0.0054	U	NS		**0.053**		0.0011	U	**0.68**		**0.094**		0.0012	U
2-Nitroaniline	8270E	88-74-4	8,000	630	NS		0.055	U	NS		0.15	U	0.012	U	0.23	U	0.073	U	0.012	U
3-Nitroaniline	8270E	99-09-2	NE	NE	NS		0.055	UJ	NS		0.15	UJ	0.012	UJ	0.23	UJ	0.073	UJ	0.012	UJ
4-Nitroaniline	8270E	100-01-6	110	27	NS		0.055	UJ	NS		0.15	UJ	0.012	UJ	0.23	UJ	0.073	UJ	0.012	UJ
Nitrobenzene	8270E	98-95-3	22	5.1	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
2-Nitrophenol	8270E	88-75-5	NE	NE	NS		0.055	U	NS		0.15	U	0.012	U	0.23	U	0.073	U	0.012	U
4-Nitrophenol	8270E	100-02-7	NE	NE	NS		0.14	UJ	NS		0.39	UJ	0.029	UJ	0.58	UJ	0.18	UJ	0.03	UJ
N-Nitrosodi-n-propylamine	8270E	621-64-7	0.33	0.08	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
N-Nitrosodiphenylamine (Diphenylamine)	8270E	86-30-6	470	110	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Pentachlorophenol	8270E	87-86-5	4	1	NS		0.14	UJ	NS		0.39	UJ	0.029	UJ	0.58	UJ	0.18	UJ	0.03	UJ
Phenanthrene	8270E	85-01-8	23,000 (4)	1,800 (4)	NS		0.004	U	NS		**0.41**	B	0.00084	U	**2.2**	B	**0.13**	B	0.00088	U
Phenol	8270E	108-95-2	250,000	19,000	NS		0.028	UJ	NS		0.077	UJ	0.0059	UJ	0.12	UJ	0.036	UJ	0.0061	UJ
Pyrene	8270E	129-00-0	23,000	1,800	NS		0.0028	U	NS		**0.9**	B	0.00059	U	**5.5**	B	**0.095**	B	0.00061	U
1,2,4,5-Tetrachlorobenzene	8270E	95-94-3	35	2.3	NS		0.055	U	NS		0.15	U	0.012	U	0.23	U	0.073	U	0.012	U
2,3,4,6-Tetrachlorophenol	8270E	58-90-2	25,000	1,900	NS		0.055	UJ	NS		0.15	UJ	0.012	UJ	0.23	UJ	0.073	UJ	0.012	UJ
2,4,5-Trichlorophenol	8270E	95-95-4	82,000	6,300	NS		0.028	UJ	NS		0.077	UJ	0.0059	UJ	0.12	UJ	0.036	UJ	0.0061	UJ
2,4,6-Trichlorophenol	8270E	88-06-2	210	49	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Polychlorinated Biphenyls; Aroclors (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	**B9-1/ 0-1'**	**Q**	**B9-2/ 9-10'**	**Q**	**B10-1/ 0-1'**	**Q**	**B11-1/ 0-1'**	**Q**	**B11-2/ 9-10'**	**Q**	**B12-1/ 0-1'**	**Q**	**B12-2/ 6-7'**	**Q**	**B12-3/ 14-15'**	**Q**
Aroclor 1016	8082A	12674-11-2	27	4.1	NS		NS		NS		NS		NS		NS		NS		NS	
Aroclor 1221	8082A	11104-28-2	0.83	0.2	NS		NS		NS		NS		NS		NS		NS		NS	
Aroclor 1232	8082A	11141-16-5	0.72	0.17	NS		NS		NS		NS		NS		NS		NS		NS	
Aroclor 1242	8082A	53469-21-9	0.95	0.23	NS		NS		NS		NS		NS		NS		NS		NS	
Aroclor 1248	8082A	12672-29-6	0.94	0.23	NS		NS		NS		NS		NS		NS		NS		NS	
Aroclor 1254	8082A	11097-69-1	0.97	0.24	NS		NS		NS		NS		NS		NS		NS		NS	
Aroclor 1260	8082A	11096-82-5	0.99	0.24	NS		NS		NS		NS		NS		NS		NS		NS	
Aroclor 1262	8082A	37324-23-5	NE	NE	NS		NS		NS		NS		NS		NS		NS		NS	
Aroclor 1268	8082A	11100-14-4	NE	NE	NS		NS		NS		NS		NS		NS		NS		NS	

Notes:
U - Denotes analyte not detected at or above method detection limit or quantitation limit.

Table 2-3: Summary of Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)															
					B9-1/ 0-1'	Q	B9-2/ 9-10'	Q	B10-1/ 0-1'	Q	B11-1/ 0-1'	Q	B11-2/ 9-10'	Q	B12-1/ 0-1'	Q	B12-2/ 6-7'	Q	B12-3/ 14-15'	Q

U J - Denotes analyte not detected at or above method detection limit (MDL) or quantitation limit (QL) and MDL
J - Denotes estimated value.
NS - Denotes not sampled.
NE - Denotes not established.
RSL - Denotes Regional Screening Level - United States Environmental Protection Agency Region Regional Screening Level (RSL) Summary Table November 2021 (TR=1E-06 THQ=1.0)
https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
VRP Tier III Industrial Soil Screening Level (mg/kg)- Virginia Department of Environmental Quality Voluntary Remediation Program Screening Levels (VRP); Based on EPA Region 3 RSL Update: November 2019
Q - Denotes data validation qualifier.
B - Denotes result considered influenced by laboratory contamination
JB - Denotes result considered influenced by laboratory contamination and result/QL considered estimated
(1) 3-Methylphenol and 4-Methylphenol cannot be resolved. Result is combination of both results.
(2) Chromium III, Insoluble Salts was selected as a screening value for total chromium.
(3) Nickel Soluble Salts was selected as the screening value for total nickel.
(4) Pyrene was selected as a surrogate for non-carcenogenic PAHs (acenaphthylene, benzo[g,h,i]perylene and phenanthrene).
(5) Chromium VRP limit based on hexavalent chromium screening limit
Due to limitations of analytical methods and budget constraints, there may be certain instances where the laboratory quantitation or detection limits are greater than the project action levels. However, this should not hinder this assessment, as a comprehensive review of all analytical results across the site will help determine if further

Table 3-1: Summary of Dectections in Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)																					
					BMW1-1/ 0-1'	Q	BMW1-2/ 11-12'	Q	BMW2-1/ 0-1'	Q	BMW2-2/ 14-15'	Q	B1-1/ 1-2'	Q	B1-2/ 11-12'	Q	B2-1/ 0-1'	Q	B2-2/ 4-5'	Q	B3-1/ 0-1'	Q	B3-2/ 4-5'	Q
Inorganic Compounds (mg/kg)																										
Aluminum	6020B	7429-90-5	1,100,000	77,000	33,000		19,000		33,000		13,000		13,000		13,000		13,000		2,400		25,000		10,000	
Antimony	6020B	7440-36-0	470	31	0.25	U	0.41	J	0.21	U	0.18	U	0.71		0.21	U	0.43	J	0.4	J	0.21	U	1.5	
Arsenic	6020B	7440-38-2	3	0.68	2.3		4.8		1.9		1.7		7.1		6.2		2.9		4.9		3.6		11	
Barium	6020B	7440-39-3	220,000	15,000	150	J	380	J	280	J	120	J	1,400	J	150	J	160	J	31	J	180	J	74	J
Beryllium	6020B	7440-41-7	2,300	160	1.2		1.2		1.6		0.35		0.81		1.1		1.1		0.15		1.4		0.39	
Cadmium	6020B	7440-43-9	100	7.1	0.084	J	0.06	J	0.067	J	0.081	J	0.71		0.34		0.38		0.22		0.53		0.096	J
Calcium	6020B	7440-70-2	NE	NE	1,600		64,000		1,000		2,500		34,000		1,400		58,000		33,000		33,000		2600	
Chromium	6020B	7440-47-3	1,800,000 (2)	120,000 (2)	32		41		28		10		28		16		30		9.9		20		19	
Cobalt	6020B	7440-48-4	350	23	50		14		59		5.1		9		13		5.4		9.8		35		9	
Copper	6020B	7440-50-8	47,000	3,100	120	J	13	J	100	J	10	J	46	J	16	J	29	J	56	J	120	J	170	J
Iron	6020B	7439-89-6	820,000	55,000	85,000		84,000		100,000		26,000		29,000		28,000		20,000		34,000		72,000		52,000	
Lead	6020B	7439-92-1	800	400	17	J	25	J	7.7	J	14	J	46	J	16	J	22	J	17	J	55	J	50	J
Magnesium	6020B	7439-95-4	NE	NE	7,700		2500		13,000		10,000		3,500		2,100		16,000		850		5,200		600	
Manganese	6020B	7439-96-5	26,000	1,800	750		8,200		1,100		350		520		670		2,200		500		570		570	
Mercury	7471B	7439-97-6	46	11	0.082	J	0.02	UJ	0.02	UJ	0.019	UJ	0.028	J	0.024	UJ	0.024	UJ	0.023	UJ	0.088	J	0.024	UJ
Nickel	6020B	7440-02-0	22,000 (3)	1,500 (3)	22		34		27		6.6		66		24		11		27		27		20	
Potassium	6020B	7440-09-7	NE	NE	2,600		4,300		6,200		11,000		3,200		1,600		1,400		530		2,000		1,100	
Selenium	6020B	7782-49-2	5,800	390	3.9		1.7		5.1		3.2		0.57	U	0.77	J	0.54	U	0.53	U	1.3		0.83	J
Silver	6020B	7440-22-4	5,800	390	0.074	U	0.059	U	0.062	U	0.055	U	0.12	J	0.064	U	0.11	J	0.067	U	0.33		0.71	
Sodium	6020B	7440-23-5	NE	NE	91	J	540		81	J	120		440		74	J	290		90	J	58	J	110	
Thallium	6020B	7440-28-0	12	0.78	0.18		0.22		0.19		0.61		0.2		0.24		0.077	J	0.054	J	0.22		0.076	J
Vanadium	6020B	7440-62-2	5,800	390	290		130		310		23		32		26		22		15		120		28	
Zinc	6020B	7440-66-6	350,000	23,000	120	J	160	J	180	J	120	J	650	J	78	J	70	J	63	J	180	J	64	J
Cyanide	9012B	57-12-5	150	23	120		0.22	U	13		93		1.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Volatile Organic Compounds (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	BMW1-1/ 0-1'	Q	BMW1-2/ 11-12'	Q	BMW2-1/ 0-1'	Q	BMW2-2/ 14-15'	Q	B1-1/ 1-2'	Q	B1-2/ 11-12'	Q	B2-1/ 0-1'	Q	B2-2/ 4-5'	Q	B3-1/ 0-1'	Q	B3-2/ 4-5'	Q
Acetone	8260D	67-64-1	1,100,000	70,000	0.013	U	0.0094	U	0.0059	U	0.0085	U	0.0096	U	0.0054	U	0.069		0.031		0.0067	U	0.089	
Benzene	8260D	71-43-2	5.1	1.2	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
2-Butanone (MEK)	8260D	78-93-3	190,000	27,000	0.0063	U	0.0047	U	0.0029	U	0.0042	U	0.0048	U	0.0027	U	0.026	J	0.0088	J	0.0033	U	0.019	
Carbon disulfide	8260D	75-15-0	3,500	770	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0055	J	0.0026	U	0.0017	U	0.0015	U
Cyclohexane	8260D	110-82-7	27,000	6,500	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
1,1-Dichloroethane	8260D	75-34-3	16	3.6	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0026	J
Ethylbenzene	8260D	100-41-4	25	5.8	0.0077	J	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Isopropylbenzene	8260D	98-82-8	9,900	1,900	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Methylcyclohexane	8260D	108-87-2	NE	NE	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Toluene	8260D	108-88-3	47,000	4,900	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Trichloroethene	8260D	79-01-6	6	0.94	0.0031	U	0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
m+p - Xylenes	8260D	179601-23-1	2,400	560	0.045		0.0024	U	0.0021	J	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
o - Xylenes	8260D	95-47-6	2,800	640	0.017		0.0024	U	0.0015	U	0.0021	U	0.0024	U	0.0013	U	0.0029	U	0.0026	U	0.0017	U	0.0015	U
Semivolatile Organic Compounds (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	BMW1-1/ 0-1'	Q	BMW1-2/ 11-12'	Q	BMW2-1/ 0-1'	Q	BMW2-2/ 14-15'	Q	B1-1/ 1-2'		B1-2/ 11-12'		B2-1/ 0-1'		B2-2/ 4-5'		B3-1/ 0-1'		B3-2/ 4-5'	
Acenaphthene	8270E	83-32-9	45,000	3,600	0.011	U	0.0093	U	0.031		0.00086	U	0.025	J	0.001	U	0.041		0.001	U	0.065		0.01	U
Acenaphthylene	8270E	208-96-8	23,000 (4)	1,800 (4)	0.013	U	0.032		0.011	U	0.00099	U	0.02	J	0.0012	U	0.039		0.0012	U	0.078		0.011	U
Anthracene	8270E	120-12-7	230,000	18,000	0.0068	U	0.11		0.12		0.00053	U	0.18	B	0.00063	U	0.11	B	0.0017	B	0.22	B	0.042	B
Benzo(a)anthracene	8270E	56-55-3	21	1.1	0.024	J	0.44		0.57		0.0041		1.3		0.00073	U	0.45		0.0081		0.8		0.58	
Benzo(a)pyrene	8270E	50-32-8	2.1	0.11	0.03	J	0.46		0.75		0.0048		1.3	B	0.00084	B	0.57	B	0.0092	B	0.94	B	1.1	B
Benzo(b)fluoranthene	8270E	205-99-2	21	1.1	0.044		0.53		0.87		0.0058		1.8		0.0022	J	0.73		0.011		1		2.3	
Benzo(g,h,i)perylene	8270E	191-24-2	23,000 (4)	1,800 (4)	0.0086	UJ	0.17	J	0.37	J	0.0024	J	0.85	BJ	0.0008	UJ	0.32	BJ	0.0067	BJ	0.47	BJ	1.1	BJ
Benzo(k)fluoranthene	8270E	207-08-9	210	11	0.013	J	0.23		0.4		0.0015	J	0.67		0.00059	U	0.23		0.0046		0.44		0.67	
1,1'-Biphenyl	8270E	92-52-4	200	47	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Caprolactam	8270E	105-60-2	400,000	31,000	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.015	J	0.061	U	0.015	J	0.061	U	0.06	U
Carbazole	8270E	86-74-8	NE	NE	0.066	U	0.056	U	0.06	J	0.0052	U	0.087	J	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Chrysene	8270E	218-01-9	2100	110	0.028	J	0.44		0.6		0.0036		1.8		0.00056	U	0.5		0.011		0.8		1.2	
Dibenzo(a,h)anthracene	8270E	53-70-3	2.1	0.11	0.0068	U	0.0057	U	0.0058	U	0.00053	U	0.0069	U	0.00063	U	0.0062	U	0.00062	U	0.0062	U	0.0062	U
Dibenzofuran	8270E	132-64-9	1,200	78	0.066	U	0.056	U	0.057	U	0.0052	U	0.068	U	0.0062	U	0.061	U	0.0061	U	0.061	U	0.06	U
Di-n-butyl phthalate	8270E	84-74-2	82,000	6,300	0.066	U	0.056	U	0.057	U	0.02		0.068	U	0.02		0.061	U	0.023		0.061	U	0.06	U
Fluoranthene	8270E	206-44-0	30,000	2,400	0.042		0.88		1		0.0056		2.7		0.00052	U	0.9		0.016		1.4		1.1	
Fluorene	8270E	86-73-7	30,000	2,400	0.0076	U	0.0064	U	0.025	J	0.00059	U	0.026	J	0.0007	U	0.025	J	0.0007	U	0.061		0.0069	U
Indeno(1,2,3-c,d)pyrene	8270E	193-39-5	21	1.1	0.018	J	0.18		0.34		0.0023	J	0.73		0.0012	U	0.29		0.0055		0.44		0.93	
2-Methylnaphthalene	8270E	91-57-6	3,000	240	0.013	U	0.016	J	0.011	U	0.001	U	0.013	U	0.0012	U	0.49		0.0075		0.054		0.063	
Naphthalene	8270E	91-20-3	8.6	2	0.013	U	0.035		0.011	U	0.001	U	0.033	J	0.0012	U	0.12		0.0067		0.088		0.057	
Phenanthrene	8270E	85-01-8	23,000 (4)	1,800 (4)	0.0096	U	0.26		0.36		0.0023	J	1.2	B	0.00098	BJ	0.42	B	0.012	B	0.56	B	0.37	B
Pyrene	8270E	129-00-0	23,000	1,800	0.032	J	0.61		0.73		0.0048		2.7	B	0.0013	BJ	0.65	B	0.011	B	1.1	B	0.72	B

Table 3-1: Summary of Dectections in Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Notes:

Detected above USEPA Residential RSL

Detected above USEPA Industrial RSL

U - Denotes analyte not detected at or above method detection limit or quantitation limit.

U J - Denotes analyte not detected at or above method detection limit (MDL) or quantitation limit (QL) and MDL and QL are estimated. See data validation report for additional information.

J - Denotes estimated value.

NS - Denotes not sampled.

NE - Denotes not established.

RSL - Denotes Regional Screening Level - United States Environmental Protection Agency Region Regional Screening Level (RSL) Summary Table November 2021 (TR=1E-06 THQ=1.0)

https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables

VRP Tier III Industrial Soil Screening Level (mg/kg)- Virginia Department of Environmental Quality Voluntary Remediation Program Screening Levels (VRP); Based on EPA Region 3 RSL Update: November 2019

Q - Denotes data validation qualifier.

B - Denotes result considered influenced by laboratory contamination

JB - Denotes result considered influenced by laboratory contamination and result/QL considered estimated

(1) 3-Methylphenol and 4-Methylphenol cannot be resolved. Result is combination of both results.

(2) Chromium III, Insoluble Salts was selected as a screening value for total chromium.

(3) Nickel Soluble Salts was selected as the screening value for total nickel.

(4) Pyrene was selected as a surrogate for non-carcenogenic PAHs (acenaphthylene, benzo[g,h,i]perylene and phenanthrene).

(5) Chromium VRP limit based on hexavalent chromium screening limit

Due to limitations of analytical methods and budget constraints, there may be certain instances where the laboratory quantitation or detection limits are greater than the project action levels. However, this should not hinder this assessment, as a comprehensive review of all analytical results across the site will help determine if further evaluation beyond the scope of this assessment may be required.

Table 3-2: Summary of Detections in Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)																					
					B4-1/ 0-2'	Q	B4-2/ 9-10'	Q	B5-1/ 0-2'	Q	B5-2/ 11-12'	Q	B6-1/ 0-1'	Q	B6-2/ 6-7'	Q	B7-1/ 0-2'	Q	B7-2/ 10-12'	Q	B8-1/ 1-2'	Q	B8-2/ 9-10'	Q
Inorganic Compounds (mg/kg)																										
Aluminum	6020B	7429-90-5	1,100,000	77,000	8,400		12,000		18,000		17,000		18,000		7,800		11,000		12,000		20,000		17,000	
Antimony	6020B	7440-36-0	470	31	0.56	J	0.37	J	0.28	U	0.23	U	0.21	U	0.21	U	0.42	J	3		0.24	U	0.21	U
Arsenic	6020B	7440-38-2	3	0.68	5		7.5		0.89		4.8		1.9		3.4		7.7		39		0.86		4.5	
Barium	6020B	7440-39-3	220,000	15,000	89	J	130	J	170	J	140	J	130	J	170	J	71	J	140	J	150	J	120	J
Beryllium	6020B	7440-41-7	2,300	160	0.74		1		0.84		1.6		0.69		0.47		0.35		0.71		0.66		1.1	
Cadmium	6020B	7440-43-9	100	7.1	0.28		0.34		0.052	J	0.1	J	0.058	J	0.1	J	0.066	J	0.026	U	0.031	U	0.07	J
Calcium	6020B	7440-70-2	NE	NE	10,000		2,900		7,000		950		120,000		1,700		130,000		38,000		5300		810	
Chromium	6020B	7440-47-3	1,800,000 (2)	120,000 (2)	23		16		12		21		24		12		210		24		9		17	
Cobalt	6020B	7440-48-4	350	23	8.4		12		25		9.1		24		6.2		9.3		33		14		6.5	
Copper	6020B	7440-50-8	47,000	3,100	34	J	21	JB	120	J	27	J	50	J	25	J	57	J	480	J	64	J	18	J
Iron	6020B	7439-89-6	820,000	55,000	24,000		26,000		60,000		32,000		44,000		19,000		78,000		120,000		46,000		29,000	
Lead	6020B	7439-92-1	800	400	240	J	24	J	3.3	J	19	J	7.4	J	49	J	6.2	J	16	J	2.9	J	17	J
Magnesium	6020B	7439-95-4	NE	NE	1700		2,000		7,700		2,500		9,600		1,600		6,900		1,500		7,000		2,100	
Manganese	6020B	7439-96-5	26,000	1,800	440		580		380		220		420		230		850		5,300		320		200	
Mercury	7471B	7439-97-6	46	11	0.024	UJ	0.025	J	0.034	J	0.022	UJ	0.02	UJ	0.064	J	0.019	UJ	0.02	UJ	0.35	J	0.022	UJ
Nickel	6020B	7440-02-0	22,000 (3)	1,500 (3)	24		22		19		20		18		11		130		77		10		14	
Potassium	6020B	7440-09-7	NE	NE	1,200		1,600		3,100		2,000		2,700		1,600		1,900		1,700		2,700		1,900	
Selenium	6020B	7782-49-2	5,800	390	0.94	J	0.53	U	0.65	U	1	J	2.8		1.6		1.7		1.3		1.4	J	3.6	
Silver	6020B	7440-22-4	5,800	390	0.14	J	0.068	U	0.083	U	0.069	U	0.22	J	0.064	U	0.64		0.64		0.073	U	0.064	U
Sodium	6020B	7440-23-5	NE	NE	240		58	J	250		88	J	290		49	J	290		510		250		63	J
Thallium	6020B	7440-28-0	12	0.78	0.12	J	0.23		0.13	J	0.37		0.11	J	0.14		0.083	J	0.066	J	0.11	J	0.29	
Vanadium	6020B	7440-62-2	5,800	390	28		25		120		37		150		20		42		74		140		32	
Zinc	6020B	7440-66-6	350,000	23,000	55	J	78	J	93	J	86	J	79	J	49	J	23	J	14	J	49	J	59	J
Cyanide	9012B	57-12-5	150	23	0.26	U	0.5	J	0.28	U	0.25	U	41		0.23	U	0.21	U	59		160		2.9	
Volatile Organic Compounds (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	B4-1/ 0-2'	Q	B4-2/ 9-10'	Q	B5-1/ 0-2'	Q	B5-2/ 11-12'	Q	B6-1/ 0-1'	Q	B6-2/ 6-7'	Q	B7-1/ 0-2'	Q	B7-2/ 10-12'	Q	B8-1/ 1-2'	Q	B8-2/ 9-10'	Q
Acetone	8260D	67-64-1	1,100,000	70,000	0.018	J	0.026		0.02	J	0.0066	U	NS		0.0086	U	NS		0.011	U	0.031		0.14	
Benzene	8260D	71-43-2	5.1	1.2	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.016		0.0016	U
2-Butanone (MEK)	8260D	78-93-3	190,000	27,000	0.0055	U	0.0041	U	0.0047	U	0.0033	U	NS		0.0043	U	NS		0.0056	U	0.012	J	0.037	
Carbon disulfide	8260D	75-15-0	3,500	770	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Cyclohexane	8260D	110-82-7	27,000	6,500	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	UJ	NS		0.0028	U	0.0034	U	0.0088	J
1,1-Dichloroethane	8260D	75-34-3	16	3.6	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Ethylbenzene	8260D	100-41-4	25	5.8	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Isopropylbenzene	8260D	98-82-8	9,900	1,900	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.057	
Methylcyclohexane	8260D	108-87-2	NE	NE	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.058	
Toluene	8260D	108-88-3	47,000	4,900	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.01		0.0016	U
Trichloroethene	8260D	79-01-6	6	0.94	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
m+p - Xylenes	8260D	179601-23-1	2,400	560	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
o - Xylenes	8260D	95-47-6	2,800	640	0.0028	U	0.002	U	0.0024	U	0.0017	U	NS		0.0022	U	NS		0.0028	U	0.0034	U	0.0016	U
Semivolatile Organic Compounds (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	B4-1/ 0-2'		B4-2/ 9-10'		B5-1/ 0-2'		B5-2/ 11-12'		B6-1/ 0-1'	Q	B6-2/ 6-7'	Q	B7-1/ 0-2'	Q	B7-2/ 10-12'	Q	B8-1/ 1-2'	Q	B8-2/ 9-10'	Q
Acenaphthene	8270E	83-32-9	45,000	3,600	0.011	U	0.001	J	0.011	U	0.001	U	NS		0.0094	U	0.0085	U	0.0089	U	0.75		5.3	
Acenaphthylene	8270E	208-96-8	23,000 (4)	1,800 (4)	0.012	U	0.0012	U	0.013	U	0.0012	U	NS		0.011	U	0.0097	U	0.01	U	3.6		0.058	U
Anthracene	8270E	120-12-7	230,000	18,000	0.036	B	0.0014	BJ	0.007	U	0.00063	U	NS		0.0058	U	0.018	J	0.0055	U	5.3		0.031	U
Benzo(a)anthracene	8270E	56-55-3	21	1.1	0.14		0.0069		0.0081	U	0.00073	U	NS		0.029	J	0.068		0.04		19		0.2	
Benzo(a)pyrene	8270E	50-32-8	2.1	0.11	0.17	B	0.011	B	0.009	U	0.00083	BJ	NS		0.034		0.11		0.042		22		0.14	J
Benzo(b)fluoranthene	8270E	205-99-2	21	1.1	0.43		0.014		0.0069	UJ	0.00079	J	NS		0.041		0.15		0.073		27		0.12	J
Benzo(g,h,i)perylene	8270E	191-24-2	23,000 (4)	1,800 (4)	0.12	B	0.012	B	0.0089	U	0.0012	BJ	NS		0.0074	UJ	0.078		0.034		5		0.095	J
Benzo(k)fluoranthene	8270E	207-08-9	210	11	0.0062	U	0.0062		0.0066	U	0.0006	U	NS		0.015	J	0.058		0.023	J	11		0.029	U
1,1'-Biphenyl	8270E	92-52-4	200	47	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.15	J	0.3	U
Caprolactam	8270E	105-60-2	400,000	31,000	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
Carbazole	8270E	86-74-8	NE	NE	0.065	U	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	1.4		0.3	U
Chrysene	8270E	218-01-9	2100	110	0.26		0.0073		0.0062	U	0.00056	U	NS		0.03	J	0.075		0.042		20		0.2	
Dibenzo(a,h)anthracene	8270E	53-70-3	2.1	0.11	0.0066	U	0.00062	U	0.007	U	0.00063	U	NS		0.0058	U	0.0052	U	0.0055	U	0.014	U	0.031	U
Dibenzofuran	8270E	132-64-9	1,200	78	0.15	J	0.0061	U	0.069	U	0.0062	U	NS		0.057	U	0.051	U	0.054	U	0.67		1.8	
Di-n-butyl phthalate	8270E	84-74-2	82,000	6,300	0.065	U	0.023		0.069	U	0.028		NS		0.057	U	0.051	U	0.054	U	0.13	U	0.3	U
Fluoranthene	8270E	206-44-0	30,000	2,400	0.24		0.01		0.019	J	0.00068	J	NS		0.033		0.13		0.073		39		0.99	
Fluorene	8270E	86-73-7	30,000	2,400	0.0074	U	0.00078	J	0.0078	U	0.00071	U	NS		0.0065	U	0.0058	U	0.0061	U	1.5		4.2	

Table 3-2: Summary of Detections in Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)																			
					B4-1/ 0-2'	Q	B4-2/ 9-10'	Q	B5-1/ 0-2'	Q	B5-2/ 11-12'	Q	B6-1/ 0-1'	Q	B6-2/ 6-7'	Q	B7-1/ 0-2'	Q	B7-2/ 10-12'	Q	B8-1/ 1-2'	Q	B8-2/ 9-10'	Q
Indeno(1,2,3-c,d)pyrene	8270E	193-39-5	21	1.1	**0.1**		**0.0089**		0.014	U	0.0012	U	NS		0.011	U	**0.07**		**0.028**	J	**5.8**		0.061	U
2-Methylnaphthalene	8270E	91-57-6	3,000	240	**0.42**		**0.0035**		0.014	U	0.0012	U	NS		0.011	U	**0.025**	J	0.011	U	**0.65**		**24**	
Naphthalene	8270E	91-20-3	8.6	2	**0.3**		**0.0034**		0.013	U	0.0012	U	NS		0.011	U	0.0099	U	0.01	U	**0.82**		0.059	U
Phenanthrene	8270E	85-01-8	23,000 (4)	1,800 (4)	**0.45**	B	**0.0091**	B	0.0099	U	0.00089	U	NS		0.0081	U	**0.14**		**0.038**		**21**		**11**	
Pyrene	8270E	129-00-0	23,000	1,800	**0.19**	B	**0.0086**	B	0.0069	U	0.00062	U	NS		**0.024**	J	**0.11**		**0.055**		**31**		**1.9**	

Notes:
Detected above USEPA Residential RSL
Detected above USEPA Industrial RSL
U - Denotes analyte not detected at or above method detection limit or quantitation limit.
U J - Denotes analyte not detected at or above method detection limit (MDL) or quantitation limit (QL) and MDL and QL are estimated. See data validation report for additional information.
J - Denotes estimated value.
NS - Denotes not sampled.
NE - Denotes not established.
RSL - Denotes Regional Screening Level - United States Environmental Protection Agency Region Regional Screening Level (RSL) Summary Table November 2021 (TR=1E-06 THQ=1.0)
https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
VRP Tier III Industrial Soil Screening Level (mg/kg)- Virginia Department of Environmental Quality Voluntary Remediation Program Screening Levels (VRP); Based on EPA Region 3 RSL Update: November 2019
Q - Denotes data validation qualifier.
B - Denotes result considered influenced by laboratory contamination
JB - Denotes result considered influenced by laboratory contamination and result/QL considered estimated
(1) 3-Methylphenol and 4-Methylphenol cannot be resolved. Result is combination of both results.
(2) Chromium III, Insoluble Salts was selected as a screening value for total chromium.
(3) Nickel Soluble Salts was selected as the screening value for total nickel.
(4) Pyrene was selected as a surrogate for non-carcenogenic PAHs (acenaphthylene, benzo[g,h,i]perylene and phenanthrene).
(5) Chromium VRP limit based on hexavalent chromium screening limit
Due to limitations of analytical methods and budget constraints, there may be certain instances where the laboratory quantitation or detection limits are greater than the project action levels. However, this should not hinder this assessment, as a comprehensive review of all analytical results across the site will help determine if further evaluation beyond the scope of this assessment may be required.

Table 3-3: Summary of Detections in Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA Industrial RSL (mg/kg)	USEPA Residential RSL (mg/kg)	Sample ID / Depth / Results (mg/kg)															
					B9-1/ 0-1'	Q	B9-2/ 9-10'	Q	B10-1/ 0-1'	Q	B11-1/ 0-1'	Q	B11-2/ 9-10'	Q	B12-1/ 0-1'	Q	B12-2/ 6-7'	Q	B12-3/ 14-15'	Q
Inorganic Compounds (mg/kg)																				
Aluminum	6020B	7429-90-5	1,100,000	77,000	**18,000**		**15,000**		**13,000**		**30,000**		**13,000**		**16,000**		NS		NS	
Antimony	6020B	7440-36-0	470	31	0.19	U	0.21	U	0.21	U	**0.67**	J	0.2	U	**0.32**	J	NS		NS	
Arsenic	6020B	7440-38-2	3	0.68	**0.79**		**2.5**		**0.66**		**6**		**6.6**		**7.8**		NS		NS	
Barium	6020B	7440-39-3	220,000	15,000	**210**	J	**92**	J	**230**	J	**280**	J	**170**	J	**140**	J	NS		NS	
Beryllium	6020B	7440-41-7	2,300	160	**1.1**		**0.53**		**1.3**		**1.6**		**1**		**0.86**		NS		NS	
Cadmium	6020B	7440-43-9	100	7.1	**0.11**	J	**0.05**	J	**0.16**		**0.26**		**0.33**		**0.44**		NS		NS	
Calcium	6020B	7440-70-2	NE	NE	**1,500**		**820**		**1,800**		**61,000**		**1,600**		**26,000**		NS		NS	
Chromium	6020B	7440-47-3	1,800,000 (2)	120,000 (2)	**17**		**14**		**12**		**32**		**16**		**22**		NS		NS	
Cobalt	6020B	7440-48-4	350	23	**37**		**6.8**		**45**		**17**		**14**		**14**		NS		NS	
Copper	6020B	7440-50-8	47,000	3,100	**94**	J	**8.3**	J	**110**	J	**56**	J	**16**	J	**79**	JB	NS		NS	
Iron	6020B	7439-89-6	820,000	55,000	**57,000**		**26,000**		**75,000**		**59,000**		**25,000**		**27,000**		NS		NS	
Lead	6020B	7439-92-1	800	400	**23**	J	**28**	J	**23**	J	**86**	J	**18**	J	**74**	J	NS		NS	
Magnesium	6020B	7439-95-4	NE	NE	**6,800**		**3,100**		**4,300**		**7,200**		**2,000**		**4,200**		NS		NS	
Manganese	6020B	7439-96-5	26,000	1,800	**620**		**310**		**690**		**1,000**		**640**		**510**		NS		NS	
Mercury	7471B	7439-97-6	46	11	**0.098**	J	**0.06**	J	0.021	UJ	**0.36**	J	0.021	UJ	**0.21**	J	NS		NS	
Nickel	6020B	7440-02-0	22,000 (3)	1,500 (3)	**18**		**7.6**		**22**		**28**		**26**		**24**		NS		NS	
Potassium	6020B	7440-09-7	NE	NE	**3,900**		**2,800**		**2,500**		**4,400**		**1,600**		**2,400**		NS		NS	
Selenium	6020B	7782-49-2	5,800	390	**2.2**		**0.55**	J	**0.55**	J	**1.2**	J	**0.56**	J	**0.51**	J	NS		NS	
Silver	6020B	7440-22-4	5,800	390	0.057	U	0.064	U	0.064	U	**0.099**	J	0.059	U	**0.18**	J	NS		NS	
Sodium	6020B	7440-23-5	NE	NE	**88**	J	**54**	J	**55**	J	**160**		**64**	J	**62**	J	NS		NS	
Thallium	6020B	7440-28-0	12	0.78	**0.1**	J	**0.41**		**0.11**	J	**0.51**		**0.25**		**0.33**		NS		NS	
Vanadium	6020B	7440-62-2	5,800	390	**200**		**25**		**140**		**57**		**28**		**44**		NS		NS	
Zinc	6020B	7440-66-6	350,000	23,000	**120**	J	**53**	J	**140**	J	**160**	J	**83**	J	**120**	J	NS		NS	
Cyanide	9012B	57-12-5	150	23	0.22	U	0.22	U	0.24	U	0.31	U	0.24	U	0.23	U	**0.3**	J	NS	
Volatile Organic Compounds (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	**B9-1/ 0-1'**	**Q**	**B9-2/ 9-10'**	**Q**	**B10-1/ 0-1'**	**Q**	**B11-1/ 0-1'**	**Q**	**B11-2/ 9-10'**	**Q**	**B12-1/ 0-1'**	**Q**	**B12-2/ 6-7'**	**Q**	**B12-3/ 14-15'**	**Q**
Acetone	8260D	67-64-1	1,100,000	70,000	NS		0.0084	U	NS		0.011	U	0.0071	U	0.011	U	**0.088**		**0.026**	
Benzene	8260D	71-43-2	5.1	1.2	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
2-Butanone (MEK)	8260D	78-93-3	190,000	27,000	NS		0.0042	U	NS		0.0055	U	0.0036	U	0.0056	U	**0.026**		0.0049	U
Carbon disulfide	8260D	75-15-0	3,500	770	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Cyclohexane	8260D	110-82-7	27,000	6,500	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
1,1-Dichloroethane	8260D	75-34-3	16	3.6	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Ethylbenzene	8260D	100-41-4	25	5.8	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Isopropylbenzene	8260D	98-82-8	9,900	1,900	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Methylcyclohexane	8260D	108-87-2	NE	NE	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Toluene	8260D	108-88-3	47,000	4,900	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Trichloroethene	8260D	79-01-6	6	0.94	NS		0.0021	U	NS		0.0028	U	0.0018	U	**0.0035**	J	0.0018	U	0.0024	U
m+p - Xylenes	8260D	179601-23-1	2,400	560	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U

Table 3-3: Summary of Detections in Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

o - Xylenes	8260D	95-47-6	2,800	640	NS		0.0021	U	NS		0.0028	U	0.0018	U	0.0028	U	0.0018	U	0.0024	U
Semivolatile Organic Compounds (mg/kg)	***Method***	***CAS #***	***Industrial RSL***	***Residential RSL***	**B9-1/ 0-1'**	**Q**	**B9-2/ 9-10'**	**Q**	**B10-1/ 0-1'**	**Q**	**B11-1/ 0-1'**	**Q**	**B11-2/ 9-10'**	**Q**	**B12-1/ 0-1'**	**Q**	**B12-2/ 6-7'**	**Q**	**B12-3/ 14-15'**	**Q**
Acenaphthene	8270E	83-32-9	45,000	3,600	NS		0.0046	U	NS		**0.031**	**J**	0.00097	U	**0.21**		**0.069**		0.001	U
Acenaphthylene	8270E	208-96-8	23,000 (4)	1,800 (4)	NS		0.0053	U	NS		**0.063**		0.0011	U	**0.48**		0.0069	U	0.0012	U
Anthracene	8270E	120-12-7	230,000	18,000	NS		0.0028	U	NS		**0.11**	**B**	0.0006	U	**1**	**B**	**0.075**	**B**	0.00062	U
Benzo(a)anthracene	8270E	56-55-3	21	1.1	NS		0.0033	U	NS		**0.61**		0.00069	U	**3.7**		**0.059**		0.00072	U
Benzo(a)pyrene	8270E	50-32-8	2.1	0.11	NS		0.0037	U	NS		**0.75**	**B**	0.00077	U	**4.1**	**B**	**0.057**	**B**	0.0008	U
Benzo(b)fluoranthene	8270E	205-99-2	21	1.1	NS		0.0028	U	NS		**1**		0.00059	U	**4.7**		**0.066**		0.00061	U
Benzo(g,h,i)perylene	8270E	191-24-2	23,000 (4)	1,800 (4)	NS		0.0036	UJ	NS		**0.32**	**B**	0.00076	UJ	**1.3**	**B**	**0.018**	**BJ**	0.00079	UJ
Benzo(k)fluoranthene	8270E	207-08-9	210	11	NS		0.0027	U	NS		**0.35**		0.00056	U	**1.7**		**0.04**		0.00058	U
1,1'-Biphenyl	8270E	92-52-4	200	47	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Caprolactam	8270E	105-60-2	400,000	31,000	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	**0.0091**	**J**
Carbazole	8270E	86-74-8	NE	NE	NS		0.028	U	NS		0.077	U	0.0059	U	0.12	U	0.036	U	0.0061	U
Chrysene	8270E	218-01-9	2100	110	NS		0.0025	U	NS		**0.71**		0.00053	U	**3.2**		**0.069**		0.00055	U
Dibenzo(a,h)anthracene	8270E	53-70-3	2.1	0.11	NS		0.0028	U	NS		0.0079	U	0.0006	U	**0.42**	**B**	0.0037	U	0.00062	U
Dibenzofuran	8270E	132-64-9	1,200	78	NS		0.028	U	NS		0.077	U	0.0059	U	**0.23**	**J**	**0.042**	**J**	0.0061	U
Di-n-butyl phthalate	8270E	84-74-2	82,000	6,300	NS		0.028	U	NS		0.077	U	**0.023**		0.12	U	0.036	U	**0.021**	
Fluoranthene	8270E	206-44-0	30,000	2,400	NS		0.0023	U	NS		**1.2**		0.00049	U	**6.6**		**0.13**		0.00051	U
Fluorene	8270E	86-73-7	30,000	2,400	NS		0.0032	U	NS		**0.023**	**J**	0.00067	U	**0.26**		**0.11**		0.00069	U
Indeno(1,2,3-c,d)pyrene	8270E	193-39-5	21	1.1	NS		0.0055	U	NS		**0.31**		0.0012	U	0.023	U	**0.019**	**J**	0.0012	U
2-Methylnaphthalene	8270E	91-57-6	3,000	240	NS		0.0055	U	NS		**0.038**	**J**	0.0012	U	**0.32**		**0.05**		0.0012	U
Naphthalene	8270E	91-20-3	8.6	2	NS		0.0054	U	NS		**0.053**		0.0011	U	**0.68**		**0.094**		0.0012	U
Phenanthrene	8270E	85-01-8	23,000 (4)	1,800 (4)	NS		0.004	U	NS		**0.41**	**B**	0.00084	U	**2.2**	**B**	**0.13**	**B**	0.00088	U
Pyrene	8270E	129-00-0	23,000	1,800	NS		0.0028	U	NS		**0.9**	**B**	0.00059	U	**5.5**	**B**	**0.095**	**B**	0.00061	U

Notes:
Detected above USEPA Residential RSL
Detected above USEPA Industrial RSL
U - Denotes analyte not detected at or above method detection limit or quantitation limit.
U J - Denotes analyte not detected at or above method detection limit (MDL) or quantitation limit (QL) and
J - Denotes estimated value.
NS - Denotes not sampled.
NE - Denotes not established.
RSL - Denotes Regional Screening Level - United States Environmental Protection Agency Region Regional Screening Level (RSL) Summary Table November 2021 (TR=1E-06 THQ=1.0)
https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
VRP Tier III Industrial Soil Screening Level (mg/kg)- Virginia Department of Environmental Quality Voluntary Remediation Program Screening Levels (VRP); Based on EPA Region 3 RSL Update: November 2019
Q - Denotes data validation qualifier.
B - Denotes result considered influenced by laboratory contamination
JB - Denotes result considered influenced by laboratory contamination and result/QL considered estimated
(1) 3-Methylphenol and 4-Methylphenol cannot be resolved. Result is combination of both results.
(2) Chromium III, Insoluble Salts was selected as a screening value for total chromium.
(3) Nickel Soluble Salts was selected as the screening value for total nickel.
(4) Pyrene was selected as a surrogate for non-carcenogenic PAHs (acenaphthylene, benzo[g,h,i]perylene and phenanthrene).
(5) Chromium VRP limit based on hexavalent chromium screening limit

Table 3-3: Summary of Detections in Soil Analytical Results
Phase II ESA - October 20-21, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Due to limitations of analytical methods and budget constraints, there may be certain instances where the laboratory quantitation or detection limits are greater than the project action levels. However, this should not hinder this assessment, as a comprehensive review of all analytical results across the site will help

Table 4: Summary of Groundwater Analytical Results
Phase II ESA - October 27, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA RSL Tapwater (ug/l)	MCL (ug/l)	Sample ID / Results (ug/L)			
					MW1/BMW1	Q	MW2/BMW2	Q
Total Inorganic Compounds (ug/L)								
Aluminum	6020B	7429-90-5	20,000	NE	**330**	J	**110**	J
Antimony	6020B	7440-36-0	*	6.0	0.5	U	0.5	U
Arsenic	6020B	7440-38-2	*	10	1.3	U	1.3	U
Barium	6020B	7440-39-3	*	2,000	**320**		**97**	
Beryllium	6020B	7440-41-7	*	4.0	0.15	U	0.15	U
Cadmium	6020B	7440-43-9	*	5.0	0.13	U	0.13	U
Calcium	6020B	7440-70-2	NE	NE	**69,000**		**92,000**	
Chromium	6020B	7440-47-3	*	100	1.3	U	1.3	U
Cobalt	6020B	7440-48-4	6.0	NE	**1.4**	J	1.3	U
Copper	6020B	7440-50-8	*	1,300	1.3	U	1.3	U
Iron	6020B	7439-89-6	14,000	NE	**8,200**		**5,600**	
Lead	6020B	7439-92-1	*	15	**1.8**		**0.71**	J
Magnesium	6020B	7439-95-4	NE	NE	**17,000**		**22,000**	
Manganese	6020B	7439-96-5	NE	NE	**1,100**		**420**	
Mercury	7470A	7439-97-6	*	2.0	0.091	U	0.091	U
Nickel	6020B	7440-02-0	390 (5)	NE	1.3	U	1.3	U
Potassium	6020B	7440-09-7	NE	NE	**5,400**		**16,000**	
Selenium	6020B	7782-49-2	*	50	1.3	U	1.3	U
Silver	6020B	7440-22-4	94	NE	0.25	U	0.25	U
Sodium	6020B	7440-23-5	NE	NE	**40,000**		**39,000**	
Thallium	6020B	7440-28-0	*	2.0	0.15	U	0.15	U
Vanadium	6020B	7440-62-2	86	NE	2.5	U	2.5	U
Zinc	6020B	7440-66-6	6,000	NE	**5.7**	JB	**3.9**	JB
Cyanide	9012B	57-12-5	1.5	NE	0.004	U	0.004	U
Volatile Organic Compounds (ug/L)	***Method***	***CAS #***	***USEPA RSL Tapwater (ug/l)***	***MCL (ug/l)***	**MW1/BMW1**	**Q**	**MW2/BMW2**	**Q**
Acetone	8260D	67-64-1	18,000	NE	4	UJ	4	U
Benzene	8260D	71-43-2	*	5.0	0.4	UJ	0.4	U
Bromochloromethane	8260D	74-97-5	83	NE	0.4	UJ	0.4	U
Bromodichloromethane	8260D	75-27-4	*	80 (2)	0.4	UJ	0.4	U
Bromoform	8260D	75-25-2	*	80(2)	0.4	UJ	0.4	U
Bromomethane (Methyl bromide)	8260D	74-83-9	7.5	NE	0.4	UJ	0.4	U
2-Butanone (MEK)	8260D	78-93-3	5,600	NE	2	UJ	2	U
Carbon disulfide	8260D	75-15-0	810	NE	0.4	UJ	0.4	U
Carbon tetrachloride	8260D	56-23-5	*	5.0	0.4	UJ	0.4	U
Chlorobenzene	8260D	108-90-7	*	100	0.4	UJ	0.4	U
Chloroethane	8260D	75-00-3	8,300	NE	0.4	UJ	0.4	U
Chloroform	8260D	67-66-3	*	80(2)	0.4	UJ	0.4	U
Chloromethane (Methyl chloride)	8260D	74-87-3	190	NE	0.4	UJ	0.4	U
Cyclohexane	8260D	110-82-7	13,000	NE	0.4	UJ	0.4	U
1,2-Dibromo-3-chloropropane (DBCP)	8260D	96-12-8	*	0.2	0.4	UJ	0.4	U
Dibromochloromethane	8260D	124-48-1	*	80(2)	0.4	UJ	0.4	U
1,2-Dibromoethane (EDB)	8260D	106-93-4	*	0.05	0.4	UJ	0.4	U
1,2-Dichlorobenzene	8260D	95-50-1	*	600	0.4	UJ	0.4	U
1,3-Dichlorobenzene	8260D	541-73-1	NE	NE	0.4	UJ	0.4	U
1,4-Dichlorobenzene	8260D	106-46-7	*	75	0.4	UJ	0.4	U
Dichlorodifluoromethane	8260D	75-71-8	200	NE	0.4	UJ	0.4	U
1,1-Dichloroethane	8260D	75-34-3	2.8	NE	0.4	UJ	0.4	U
1,2-Dichloroethane	8260D	107-06-2	*	5.0	0.4	UJ	0.4	U
1,1-Dichloroethene	8260D	75-35-4	*	7.0	**1.5**	J	0.4	U
cis-1,2-Dichloroethene	8260D	156-59-2	*	70	0.4	UJ	0.4	U
trans-1,2-Dichloroethene	8260D	156-60-5	*	100	0.4	UJ	0.4	U
1,2-Dichloropropane	8260D	78-87-5	*	5.0	0.4	UJ	0.4	U
cis-1,3-Dichloropropene	8260D	10061-01-5	NE	NE	0.4	UJ	0.4	U
trans-1,3-Dichloropropene	8260D	10061-02-6	NE	NE	0.4	UJ	0.4	U

Table 4: Summary of Groundwater Analytical Results
Phase II ESA - October 27, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA RSL Tapwater (ug/l)	MCL (ug/l)	Sample ID / Results (ug/L)			
					MW1/BMW1	Q	MW2/BMW2	Q
Ethylbenzene	8260D	100-41-4	*	700	0.4	UJ	0.4	U
2-Hexanone	8260D	591-78-6	38	NE	2	UJ	2	U
Isopropylbenzene	8260D	98-82-8	450	NE	0.4	UJ	0.4	U
Methyl acetate	8260D	79-20-9	20,000	NE	0.4	UJ	0.4	U
Methyl tertiary butyl ether (MTBE)	8260D	1634-04-4	14	NE	0.4	UJ	0.4	U
4-Methyl-2-pentanone	8260D	108-10-1	6,300	NE	2	UJ	2	U
Methylcyclohexane	8260D	108-87-2	NE	NE	0.4	UJ	0.4	U
Methylene chloride	8260D	75-09-2	*	5.0	0.4	UJ	0.4	U
Styrene	8260D	100-42-5	*	100	0.41	UJ	0.41	U
1,1,2,2-Tetrachloroethane	8260D	79-34-5	0.08	NE	0.4	UJ	0.4	U
Tetrachloroethene	8260D	127-18-4	*	5.0	0.4	UJ	0.4	U
Toluene	8260D	108-88-3	*	1,000	0.4	UJ	0.4	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	8260D	76-13-1	10,000	NE	0.42	UJ	0.42	U
1,2,3-Trichlorobenzene	8260D	87-61-6	7.0	NE	0.4	UJ	0.4	U
1,2,4-Trichlorobenzene	8260D	120-82-1	*	70	0.4	UJ	0.4	U
1,1,1-Trichloroethane	8260D	71-55-6	*	200	0.4	UJ	0.4	U
1,1,2-Trichloroethane	8260D	79-00-5	*	5.0	0.4	UJ	0.4	U
Trichloroethene	8260D	79-01-6	*	5.0	0.4	UJ	0.4	U
Trichlorofluoromethane	8260D	75-69-4	5,200	NE	0.4	UJ	0.4	U
Vinyl chloride	8260D	75-01-4	*	2.0	0.4	UJ	0.4	U
m+p - Xylenes	8260D	179601-23-1	*	10,000	0.4	UJ	0.4	U
o - Xylenes	8260D	95-47-6	*	10,000	0.4	UJ	0.4	U
Semivolatile Organic Compounds (ug/L)	***Method***	***CAS #***	***USEPA RSL Tapwater (ug/l)***	***MCL (ug/l)***	**MW1/BMW1**	**Q**	**MW2/BMW2**	**Q**
Acenaphthene	8270E	83-32-9	530	NE	0.04	U	0.04	U
Acenaphthylene	8270E	208-96-8	NE	NE	0.04	U	0.04	U
Acetophenone	8270E	98-86-2	1,900	NE	0.23	U	0.23	U
Anthracene	8270E	120-12-7	1,800	NE	0.04	U	0.04	U
Atrazine	8270E	1912-24-9	*	3.0	0.2	U	0.2	U
Benzaldehyde	8270E	100-52-7	19	NE	0.27	U	0.27	U
Benzo(a)anthracene	8270E	56-55-3	0.03	NE	0.04	U	0.04	U
Benzo(a)pyrene	8270E	50-32-8	*	0.2	**0.046**	**JB**	0.04	U
Benzo(b)fluoranthene	8270E	205-99-2	0.25	NE	**0.051**	**JB**	0.04	U
Benzo(g,h,i)perylene	8270E	191-24-2	NE	NE	0.04	U	0.04	U
Benzo(k)fluoranthene	8270E	207-08-9	2.5	NE	0.04	U	0.04	U
1,1'-Biphenyl	8270E	92-52-4	0.83	NE	0.21	U	0.21	U
4-Bromophenyl phenyl ether	8270E	101-55-3	NE	NE	0.15	U	0.15	U
Butyl benzyl phthalate	8270E	85-68-7	16	NE	0.21	U	0.21	U
Caprolactam	8270E	105-60-2	9,900	NE	0.71	U	0.71	U
Carbazole	8270E	86-74-8	NE	NE	0.04	U	0.04	U
bis (2-Chloro-1-methylethyl) ether	8270E	108-60-1	710	NE	0.17	U	0.17	U
4-Chloro-3-methyl phenol	8270E	59-50-7	1,400	NE	0.26	U	0.26	U
4-Chloroaniline	8270E	106-47-8	0.37	NE	0.13	UJ	0.13	UJ
bis(2-Chloroethoxy)methane	8270E	111-91-1	59	NE	0.06	U	0.06	U
bis(2-Chloroethyl)ether	8270E	111-44-4	0.010	NE	0.16	U	0.16	U
2-Chloronaphthalene	8270E	91-58-7	750	NE	0.15	U	0.15	U
2-Chlorophenol	8270E	95-57-8	91	NE	0.15	U	0.15	U
4-Chlorophenyl phenyl ether	8270E	7005-72-3	NE	NE	0.16	U	0.16	U
Chrysene	8270E	218-01-9	25	NE	0.04	U	0.04	U
Dibenzo(a,h)anthracene	8270E	53-70-3	0.03	NE	0.04	U	0.04	U
Dibenzofuran	8270E	132-64-9	7.9	NE	0.16	U	0.16	U
3,3'-Dichlorobenzidine	8270E	91-94-1	0.13	NE	0.81	U	0.81	U
2,4-Dichlorophenol	8270E	120-83-2	46	NE	0.19	U	0.19	U
Diethylphthalate	8270E	84-66-2	15,000	NE	0.19	U	0.19	U
Dimethyl phthalate	8270E	131-11-3	NE	NE	0.18	U	0.18	U
2,4-Dimethylphenol	8270E	105-67-9	360	NE	0.15	U	0.15	U
Di-n-butyl phthalate	8270E	84-74-2	900	NE	0.42	U	0.42	U
4,6-Dinitro-2-methylphenol	8270E	534-52-1	1.5	NE	0.89	U	0.89	U

Table 4: Summary of Groundwater Analytical Results
Phase II ESA - October 27, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA RSL Tapwater (ug/l)	MCL (ug/l)	Sample ID / Results (ug/L)			
					MW1/BMW1	Q	MW2/BMW2	Q
2,4-Dinitrophenol	8270E	51-28-5	39	NE	1.3	U	1.3	U
2,4-Dinitrotoluene	8270E	121-14-2	0.24	NE	0.36	U	0.36	U
2,6-Dinitrotoluene	8270E	606-20-2	0.050	NE	0.34	U	0.34	U
Di-n-octylphthalate	8270E	117-84-0	200	NE	0.48	U	0.48	U
1,4-Dioxane	8270E	123-91-1	0.46	NE	**0.57**	**J**	0.2	U
bis(2-Ethylhexyl)phthalate	8270E	117-81-7	*	6	**0.55**	**JB**	**0.52**	**JB**
Fluoranthene	8270E	206-44-0	800	NE	0.04	U	0.04	U
Fluorene	8270E	86-73-7	290	NE	0.04	U	0.04	U
Hexachlorobenzene	8270E	118-74-1	*	1	0.15	U	0.15	U
Hexachlorobutadiene	8270E	87-68-3	0.14	NE	0.17	U	0.17	U
Hexachlorocyclopentadiene	8270E	77-47-4	*	50	1.1	U	1.1	U
Hexachloroethane	8270E	67-72-1	0.33	NE	0.17	U	0.17	U
Indeno(1,2,3-c,d)pyrene	8270E	193-39-5	0.25	NE	0.04	U	0.04	U
Isophorone	8270E	78-59-1	78	NE	0.22	U	0.22	U
2-Methylnaphthalene	8270E	91-57-6	36	NE	0.04	U	0.04	U
2-Methylphenol	8270E	95-48-7	930	NE	0.21	U	0.21	U
3+4-Methylphenol (1)	8270E	106-44-5	1300	NE	0.46	U	0.46	U
Naphthalene	8270E	91-20-3	0.12	NE	0.04	U	0.04	U
2-Nitroaniline	8270E	88-74-4	190	NE	0.66	U	0.66	U
3-Nitroaniline	8270E	99-09-2	NE	NE	0.15	U	0.15	U
4-Nitroaniline	8270E	100-01-6	3.8	NE	1.3	U	1.3	U
Nitrobenzene	8270E	98-95-3	0.14	NE	0.17	U	0.17	U
2-Nitrophenol	8270E	88-75-5	NE	NE	0.44	U	0.44	U
4-Nitrophenol	8270E	100-02-7	NE	NE	2.1	U	2.1	U
N-Nitrosodi-n-propylamine	8270E	621-64-7	0.010	NE	0.28	U	0.28	U
N-Nitrosodiphenylamine (Diphenylamine)	8270E	86-30-6	12	NE	0.5	U	0.5	U
Pentachlorophenol	8270E	87-86-5	*	1	1.3	U	1.3	U
Phenanthrene	8270E	85-01-8	NE	NE	0.04	U	0.04	U
Phenol	8270E	108-95-2	5,800	NE	0.19	U	0.19	U
Pyrene	8270E	129-00-0	120	NE	0.04	U	0.04	U
1,2,4,5-Tetrachlorobenzene	8270E	95-94-3	0.17	NE	0.25	U	0.25	U
2,3,4,6-Tetrachlorophenol	8270E	58-90-2	240	NE	0.55	U	0.55	U
2,4,5-Trichlorophenol	8270E	95-95-4	1,200	NE	0.19	U	0.19	U
2,4,6-Trichlorophenol	8270E	88-06-2	4.1	NE	0.22	U	0.22	U

Notes:
U Denotes not detected at or above the laboratory method detection limit (MDL) or quantitation limit (QL).
J Denotes estimated value.
UJ Denotes not detected at or above the MDL or QL and MDL and QL are estimated.
MCL = USEPA Maximum Contaminant Level.
RSL - Denotes Regional Screening Level - United States Environmental Protection Agency Region Regional Screening Level (RSL) Summary Table November 2021 (TR=1E-06 THQ=1.0)
https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
* Denotes MCL used for action limit. MCL supersedes RSL, when available.
Q - Denotes data validation qualifier.
B - Denotes result considered influenced by laboratory contamination
JB - Denotes result considered influenced by laboratory contamination and result/QL considered estimated
(1) 3-Methylphenol and 4-Methylphenol cannot be resolved. Result is combination of both results.
(2) 80 µg/L is the MCL for total trihalomethanes.
(3) Xylene MCL based on total xylenes.
(4) Pyrene was selected as a surrogate for non-carcenogenic PAHs (acenaphthylene, benzo[g,h,i]perylene and phenanthrene).
(5) Nickel Soluble Salts was selected as the screening value for total nickel.
Due to limitations of analytical methods and budget constraints, there may be certain instances where the laboratory quantitation or detection limits are greater than the project action levels. However, this should not hinder this assessment, as a comprehensive review of all analytical results across the site will help determine if further evaluation beyond the scope of this assessment may be required.

Table 5: Summary of Detections in Groundwater Analytical Results
Phase II ESA - October 27, 2021 - Sampling Event
Former Intermet Site / Lynchburg Foundry Site
1651 Concord Turnpike, Lynchburg, Virginia

Analyte	Method	CAS #	USEPA RSL Tapwater (ug/l)	MCL (ug/l)	Sample ID / Results (ug/L)			
					MW1/BMW1	Q	MW2/BMW2	Q
Total Inorganic Compounds (ug/L)								
Aluminum	6020B	7429-90-5	20,000	NE	**330**		**110**	
Barium	6020B	7440-39-3	*	2,000	**320**		**97**	
Calcium	6020B	7440-70-2	NE	NE	**69,000**		**92,000**	
Cobalt	6020B	7440-48-4	6.0	NE	**1.4**	**J**	1.3	U
Iron	6020B	7439-89-6	14,000	NE	**8,200**		**5,600**	
Lead	6020B	7439-92-1	*	15	**1.8**		**0.71**	**J**
Magnesium	6020B	7439-95-4	NE	NE	**17,000**		**22,000**	
Manganese	6020B	7439-96-5	NE	NE	**1,100**		**420**	
Potassium	6020B	7440-09-7	NE	NE	**5,400**		**16,000**	
Sodium	6020B	7440-23-5	NE	NE	**40,000**		**39,000**	
Zinc	6020B	7440-66-6	6,000	NE	**5.7**	**JB**	**3.9**	**JB**
Volatile Organic Compounds (ug/L)					**MW1/BMW1**	**Q**	**MW2/BMW2**	**Q**
1,1-Dichloroethene	8260D	75-35-4	*	7.0	**1.5**		0.4	U
Semivolatile Organic Compounds (ug/L)					**MW1/BMW1**	**Q**	**MW2/BMW2**	**Q**
Benzo(a)pyrene	8270E	50-32-8	*	0.2	**0.046**	**JB**	0.04	U
Benzo(b)fluoranthene	8270E	205-99-2	0.25	NE	**0.051**	**JB**	0.04	U
1,4-Dioxane	8270E	123-91-1	0.46	NE	**0.57**	**J**	0.2	U
bis(2-Ethylhexyl)phthalate	8270E	117-81-7	*	6	**0.55**	**JB**	**0.52**	**JB**

Notes:
Detected above USEPA RSL Tapwater
Detected above USEPA MCL
U Denotes not detected at or above the laboratory method detection limit (MDL) or quantitation limit (QL).
J Denotes estimated value.
UJ Denotes not detected at or above the MDL or QL and MDL and QL are estimated.
MCL = USEPA Maximum Contaminant Level.
RSL - Denotes Regional Screening Level - United States Environmental Protection Agency Region Regional Screening Level (RSL) Summary Table November 2021 (TR=1E-06 THQ=1.0)
https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
* Denotes MCL used for action limit. MCL supersedes RSL, when available.
Q - Denotes data validation qualifier.
B - Denotes result considered influenced by laboratory contamination
JB - Denotes result considered influenced by laboratory contamination and result/QL considered estimated
(1) 3-Methylphenol and 4-Methylphenol cannot be resolved. Result is combination of both results.
(2) 80 µg/L is the MCL for total trihalomethanes.
(3) Xylene MCL based on total xylenes.
(4) Pyrene was selected as a surrogate for non-carcenogenic PAHs (acenaphthylene, benzo[g,h,i]perylene and phenanthrene).
(5) Nickel Soluble Salts was selected as the screening value for total nickel.
Due to limitations of analytical methods and budget constraints, there may be certain instances where the laboratory quantitation or detection limits are greater than the project action levels. However, this should not hinder this assessment, as a comprehensive review of all analytical results across the site will help determine if further evaluation beyond the scope of this assessment may be required.

Attachment 3

Field Documentation

10/20/21

CHAIN OF CUSTODY RECORD

Laboratory: Pace Analytical Services, LLC (formerly Shealy) 106 Vantage Point Drive, West Columbia, SC 29172 Project Manager Cathy Dover (803) 227-3160

Client: Lynchburg EDA Attn: Marjette Upshur Address: 900 Church St, Lynchburg, VA Phone: (434) 455-4492 Fax:	Consultant: Draper Aden Associates Attn: Janet C. Frazier Address: 2206 South Main Street, Blacksburg, Virginia 24060 Phone: (540) 552-0444 Fax: (540) 552-0291	Former Intermet/Lynchburg Foundry Site 1651 Concord Tnpk Lynchburg, VA Phase II ESA B12188B-10HM	Project Specific (PS) or Batch (B) QC: Sample Collection for Project Complete? YES Carrier: Tracking Number:

Box 1: Matrix
- SW Surface Water
- GW Groundwater
- L Leachate
- S Soil
- T Trip Blank
- E Equipment Blank
- P Product
- O Other

Box 2: Preservative
- A HCl
- B HNO_3
- C H_2SO_4
- D $Na_2S_2O_3$
- E NaOH
- F ZnAc
- G Other (Specify)
- H None

Box 5: Container
- V VOA
- CG Clear Glass

Box 4: Sample Type
- G Grab
- C Composite

Invoice
- Copy to Consultant: YES
- Bill: Consultant OTHER
- Preserved and shipped on ice: YES

GENERAL NOTES:
1. Full deliverable with BF EDD (electronic report only).
2. Report DL/QL and estimated results.
3. VELAP Accreditation required.
4. See attached target analyte lists.
5. Report results in mg/kg.
6. Report on a dry weight basis.
7. 8260D/5035 (1) VOA with methanol and (3) VOAs with DI Water.
8. Report to lowest limits where possible for inorganics (Method 6020B).
9. EPA/Brownfield Project

Sample ID	Date: 2021	Time	Box 1: Matrix	Number of Bottles	TAL VOAs 5035/8260D w/ methanol	TAL VOAs 5035/8250D w/ DI Water (as needed)	VOA Vial for screening	Dry Weight (Moisture)	TAL 8270E/3546 - Semi volatiles including PAHs (See attached analyte list)	TAL 6020B/7471B/3050B - Total Metals (TAL) W/ Hg and CYANIDE 9012B	TAL PCBS 8082A/3546 (microwave)					VOCs- TAL List 8250d-XLL/5030B	
Box 4 - Sample Type					G	G	G	G	G	G	G		G				U
Box 3 - Filtered/Unfiltered																	<2
Required pH of Sample																	A
Box 2 - Preservative					G	H	H	H	H	H	H						2-40 ml VOC
Box 5 - Sample Container Type					1-40ml V	3-40ml V	1-40 ml	1-9oz CG jar									
B7-1	10/20	14:20	S	6	X	X	X	X	X	X	X						SOIL SAMPLING INTERVAL = 0-2'
B7-2	10/20	14:25	S	6	X	X	X	X	X	X	X						SOIL SAMPLING INTERVAL = 10'-12'
B8-1	10/20	15:00	S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL = 1'-2'
B8-2	10/20	15:05	S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL = 9'-10' * petroleum odor
B9-1	10/20	15:40	S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL = 0'-1'
B9-2	10/20	15:45	S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL = 9'-10'
B10-1			S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL =
B10-2			S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL =
B11-1			S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL =
B11-2			S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL =
B12-1			S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL =
B12-2			S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL =
Trip Blank 1			T	2												X	ONE PER DAY
Trip Blank 2			T	2												X	ONE PER DAY

Clients Special Instructions:

Received by lab in Good Condition _____ Yes _____ No Custody Seal Intact _____ Yes _____ No Temperature upon arrival _____ Received on Ice _____ Yes _____ No

Describe problems, if any:

Sampler Name (Print): Hollyn Barbay	Date: 10/20/21	#1 Relinquished by (Signature):	Date: 10/20/21	#2 Relinquished by (Signature):	Date:	Sample Storage
Sampler Signature:	Time: 0900	Company Name: DAA	Time: 17:30	Company Name:	Time:	Time Requested:
Sampler Name (Print): Ethan T. Truman	Date: 10/20/21	#1 Received by (Signature):	Date:	#2 Received by (Signature):	Date:	30 DYS ORG/6 MTHS INORG
Sampler Signature:	Time: 0900	Company Name:	Time:	Company Name:	Time:	

10/20/21

CHAIN OF CUSTODY RECORD

Laboratory: Pace Analytical Services, LLC (formerly Shealy) 106 Vantage Point Drive, West Columbia, SC 29172 Project Manager Cathy Dover (803) 227-3160

Client: Lynchburg EDA Attn: Marlette Upshur Address: 900 Church St Lynchburg, VA Phone: (434) 455-4492 Fax:	Consultant: Draper Aden Associates Attn: Janet C. Frazier Address: 2206 South Main Street Blacksburg, Virginia 24060 Phone: (540) 552-0444 Fax: (540) 552-0291	Former Intermet/Lynchburg Foundry Site 1651 Concord Tnpk Lynchburg, VA Phase II ESA B12188B-10HM	Project Specific (PS) or Batch (B) QC: Sample Collection for Project Complete? YES Carrier: Tracking Number:

Box 1: Matrix
- SW Surface Water
- GW Groundwater
- L Leachate
- S Soil
- T Trip Blank
- E Equipment Blank
- P Product
- O Other

Box 2: Preservative
- A HCl
- B HNO_3
- C H_2SO_4
- D $Na_2S_2O_3$
- E NaOH
- F ZnAc
- G Other (Specify)
- H None

Box 5: Container
- V VOA
- CG Clear Glass

Box 4: Sample Type
- G Grab
- C Composite

Invoice
Copy to Consultant: YES
Bill: Consultant OTHER
Preserved and shipped on ice: YES

Box 4 - Sample Type					G	G	G	G	G	G	G				
Box 3 - Filtered/Unfiltered															
Required pH of Sample															
Box 2 - Preservative					G	H	H	H	H	H	H				
Box 5 - Sample Container Type					1-40ml V	3-40ml V	1-40 ml	1-9oz CG jar							
Sample ID	Date: 2021	Time	Box 1: Matrix	Number of Bottles	TAL VOAs 5035/8260D w/ methanol	TAL VOAs 5035/8260D w/ DI Water (as needed)	VOA Vial for screening	Dry Weight (Moisture)	TAL 8270E/3546 - Semi volatiles including PAHs (See attached analyte list)	TAL 6020B/7471B/3050B - Total Metals (TAL) W/ Hg AND CYANIDE 9012B	TAL PCBS 8082A/3546 (microwave)				
BMW1-1	10/20	11:50	S	6	X	X	X	X	X	X	X				SOIL SAMPLING INTERVAL = 0'-1'
BMW1-2	10/20	11:50	S	6	X	X	X	X	X	X	X				SOIL SAMPLING INTERVAL = 11'-12'
B1-1			S	6	X	X	X	X	X	X					SOIL SAMPLING INTERVAL =
B1-2			S	6	X	X	X	X	X	X					SOIL SAMPLING INTERVAL =
BMW2-1	10/20	13:15	S	6	X	X	X	X	X	X					SOIL SAMPLING INTERVAL = 0'-1'
BMW2-2	10/20	13:20	S	6	X	X	X	X	X	X					SOIL SAMPLING INTERVAL = 14'-15'
B2-1			S	6	X	X	X	X	X	X	X				SOIL SAMPLING INTERVAL =
B2-2			S	6	X	X	X	X	X	X	X				SOIL SAMPLING INTERVAL =
B3-1			S	6	X	X	X	X	X	X					SOIL SAMPLING INTERVAL =
B3-2			S	6	X	X	X	X	X	X					SOIL SAMPLING INTERVAL =
B4-1			S	6	X	X	X	X	X	X	X				SOIL SAMPLING INTERVAL =
B4-2			S	6	X	X	X	X	X	X	X				SOIL SAMPLING INTERVAL =
B5-2			S	6	X	X	X	X	X	X					SOIL SAMPLING INTERVAL =
B6-1	10/20	16:25	S	6	X	X	X	X	X	X					SOIL SAMPLING INTERVAL = 0'-1'
B6-2	10/20	16:30	S	6	X	X	X	X	X	X					SOIL SAMPLING INTERVAL = 6'-7'

GENERAL NOTES:
1. Full deliverable with BF EDD (electronic report only).
2. Report DL/QL and estimated results.
3. VELAP Accreditation required.
4. See attached target analyte lists.
5. Report results in mg/kg.
6. Report on a dry weight basis.
7. 8260D/5035A (1) VOA with methanol and (3) VOAs with DI Water.
8. Report to lowest limits where possible for inorganics (Method 6020B).
9. EPA/Brownfield Project

Clients Special Instructions:

Received by lab in Good Condition _____ Yes _____ No Custody Seal Intact _____ Yes _____ No Temperature upon arrival _____ Received on Ice _____ Yes _____ No
Describe problems, if any:

Sampler Name (Print): Hallyn Bailey	Date: 10/20/21	#1 Relinquished by (Signature):	Date: 10/20/21	#2 Relinquished by (Signature):	Date:	Sample Storage
Sampler Signature:	Time: 0900	Company Name: DAA	Time: 17:30	Company Name:	Time:	Time Requested:
Sampler Name (Print): Ethan T. Truman	Date: 10/20/21	#1 Received by (Signature):	Date:	#2 Received by (Signature):	Date:	30 DYS ORG/6 MTHS INORG
Sampler Signature:	Time: 0900	Company Name:	Time:	Company Name:	Time:	

HB 10/21/21

CHAIN OF CUSTODY RECORD

Laboratory: Pace Analytical Services, LLC (formerly Shealy) 106 Vantage Point Drive, West Columbia, SC 29172 Project Manager Cathy Dover (803) 227-3160

Client: Lynchburg EDA Attn: Marjette Upshur Address: 900 Church St Lynchburg, VA Phone: (434) 455-4492 Fax:	Consultant: Draper Aden Associates Attn: Janet C. Frazier Address: 2206 South Main Street Blacksburg, Virginia 24060 Phone: (540) 552-0444 Fax: (540) 552-0291	Former Intermet/Lynchburg Foundry Site 1651 Concord Tnpk Lynchburg, VA Phase II ESA B12188B-10HM	Project Specific (PS) or Batch (B) QC: Sample Collection for Project Complete? YES Carrier: Tracking Number:

Box 1: Matrix
SW Surface Water, GW Groundwater, L Leachate, S Soil, T Trip Blank, E Equipment Blank, P Product, O Other

Box 2: Preservative
A HCl, B HNO_3, C H_2SO_4, D $Na_2S_2O_3$, E NaOH, F ZnAc, G Other (Specify), H None

Box 5: Container
V VOA, CG Clear Glass

Box 4: Sample Type
G Grab, C Composite

Invoice
Copy to Consultant: YES
Bill: Consultant OTHER
Preserved and shipped on Ice: YES

GENERAL NOTES:
1. Full deliverable with BF EDD (electronic report only).
2. Report DL/QL and estimated results.
3. VELAP Accreditation required.
4. See attached target analyte lists.
5. Report results in mg/kg.
6. Report on a dry weight basis.
7. 8260D/5035A (1) VOA with methanol and (3) VOAs with DI Water.
8. Report to lowest limits where possible for inorganics (Method 6020B).
9. EPA/Brownfield Project

*9 oz upgraded to 16 oz for MS/MSD

Sample ID	Date: 2021	Time	Box 1: Matrix	Number of Bottles	TAL VOAs 5035/8260D w/ methanol	TAL VOAs 5035/8260D w/ DI Water (as needed)	VOA Vial for screening	Dry Weight (Moisture)	TAL 8270E/3546 - Semi volatiles including PAHs (See attached analyte list)	TAL 6020B/7471B/3050B - Total Metals (TAL) W/ Hg AND CYANIDE 9012B	TAL PCBS 8082A/3546 (microwave)	SOIL SAMPLING INTERVAL =
Box 4 - Sample Type					G	G	G	G	G	G	G	
Box 3 - Filtered/Unfiltered												
Required pH of Sample												
Box 2 - Preservative					G	H	H	H	H	H	H	
Box 5 - Sample Container Type					1-40ml V	3-40ml V	1-40 ml	1- 9oz CG jar				
BMW1-1			S	6	X	X	X	X	X	X	X	
BMW1-2			S	6	X	X	X	X	X	X	X	
B1-1	10/21	15:15	S	6	X	X	X	X	X	X		1'-2'
B1-2	10/21	15:20	S	6	X	X	X	X	X	X		11'-12'
BMW2-1			S	6	X	X	X	X	X	X		
BMW2-2			S	6	X	X	X	X	X	X		
B2-1	10/21	13:15	S	6	X	X	X	X	X	X	X	0'-1' MS/MSD collected
B2-2	10/21	13:20	S	6	X	X	X	X	X	X	X	4'-5'
B3-1	10/21	12:25	S	6	X	X	X	X	X	X		0'-1'
B3-2	10/21	12:30	S	6	X	X	X	X	X	X		4'-5'
B4-1	10/21	11:20	S	6	X	X	X	X	X	X	X	0'-2'
B4-2	10/21	11:25	S	6	X	X	X	X	X	X	X	9'-10' *MS/MSD collected
~~B5-2~~ B5-1	10/21	10:25	S	6	X	X	X	X	X	X		0'-2'
~~B6-1~~ B5-2	10/21	10:30	S	6	X	X	X	X	X	X		11'-12'
B6-2 HB	10/21/21		S	6	X	X	X	X	X	X		

Clients Special Instructions:

Received by lab in Good Condition ____ Yes ____ No Custody Seal Intact ____ Yes ____ No Temperature upon arrival ____ Received on Ice ____ Yes ____ No
Describe problems, if any:

Sampler Name (Print): Hollyn Busby	Date: 10/21/21	#1 Relinquished by (Signature):	Date: 10/21/21	#2 Relinquished by (Signature):	Date:	Sample Storage
Sampler Signature:	Time: 0900	Company Name: DAA	Time: 17:30	Company Name:	Time:	Time Requested:
Sampler Name (Print): Ethan Truman	Date: 10/21/21	#1 Received by (Signature):	Date:	#2 Received by (Signature):	Date:	30 DYS ORG/6 MTHS INORG
Sampler Signature:	Time: 0900	Company Name:	Time:	Company Name:	Time:	

HB 10/21/21

CHAIN OF CUSTODY RECORD

Laboratory: Pace Analytical Services, LLC (formerly Shealy) 106 Vantage Point Drive, West Columbia, SC 29172 Project Manager Cathy Dover (803) 227-3160

Client: Lynchburg EDA Attn: Marjette Upshur Address: 900 Church St, Lynchburg, VA Phone: (434) 455-4492 Fax:	Consultant: Draper Aden Associates Attn: Janet C. Frazier Address: 2206 South Main Street, Blacksburg, Virginia 24060 Phone: (540) 552-0444 Fax: (540) 552-0291	Former Intermet/Lynchburg Foundry Site 1651 Concord Tnpk Lynchburg, VA Phase II ESA B12188B-10HM	Project Specific (PS) or Batch (B) QC: Sample Collection for Project Complete? YES Carrier: Tracking Number:

Box 1: Matrix
SW Surface Water, GW Groundwater, L Leachate, S Soil, T Trip Blank, E Equipment Blank, P Product, O Other

Box 2: Preservative
A HCl, B HNO_3, C H_2SO_4, D $Na_2S_2O_3$, E NaOH, F ZnAc, G Other (Specify), H None

Box 5: Container
V VOA, CG Clear Glass

Box 4: Sample Type
G Grab, C Composite

Invoice
Copy to Consultant: YES
Bill: Consultant OTHER
Preserved and shipped on ice: YES

Sample ID	Date: 2021	Time	Box 1: Matrix	Number of Bottles	TAL VOAs 5035/8260D w/ methanol	TAL VOAs 5035/8260D w/ DI Water (as needed)	VOA Vial for screening	Dry Weight (Moisture)	TAL 8270E/3546 - Semi volatiles Including PAHs (See attached analyte list)	TAL 6020B/7471B/3050B - Total Metals (TAL) W/ Hg and CYANIDE 9012B	TAL PCBS 8082A/3546 (microwave)					VOCs- TAL List 8260d-XLL/5030B	
Box 4 - Sample Type					G	G	G	G	G	G	G		G				
Box 3 - Filtered/Unfiltered																U	
Required pH of Sample																<2	
Box 2 - Preservative					G	H	H	H	H	H	H					A	
Box 5 - Sample Container Type					1-40ml V	3-40ml V	1-40 ml	1-9oz CG jar								2-40 ml VOC	
B7-1			S	6	X	X	X	X	X	X	X						SOIL SAMPLING INTERVAL =
B7-2			S	6	X	X	X	X	X	X	X						SOIL SAMPLING INTERVAL =
B8-1			S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL =
B8-2			S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL =
B9-1			S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL =
B9-2			S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL =
B10-1	10/21	13:30	S	1	~~X~~	~~X~~	~~X~~	X	X	X							SOIL SAMPLING INTERVAL = 0'-1'
B10-2			S	HB	10/21/21		X	X	X	X							SOIL SAMPLING INTERVAL =
B11-1	10/21	15:40	S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL = 0'-1'
B11-2	10/21	15:45	S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL = 9'-10'
B12-1	10/21	14:25	S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL = 0'-1'
B12-2	10/21	14:30	S	6	X	X	X	X	X	X							SOIL SAMPLING INTERVAL = 6'-7'
Trip ~~Blank 1~~ B12-3	10/21	14:35	T	2												X	~~ONE PER DAY~~ Interval = 14'-15'
Trip Blank 2 HBK	10/21/21		T	2												X	ONE PER DAY

GENERAL NOTES:
1. Full deliverable with BF EDD (electronic report only).
2. Report DL/QL and estimated results.
3. VELAP Accreditation required.
4. See attached target analyte lists.
5. Report results in mg/kg.
6. Report on a dry weight basis.
7. 8260D/5035 (1) VOA with methanol and (3) VOAs with DI Water.
8. Report to lowest limits where possible for inorganics (Method 6020B).
9. EPA/Brownfield Project

Clients Special Instructions:

Received by lab in Good Condition _____ Yes _____ No Custody Seal Intact _____ Yes _____ No Temperature upon arrival _____ Received on Ice _____ Yes _____ No
Describe problems, if any:

Sampler Name (Print): Hollyn Busby	Date: 10/21/21	#1 Relinquished by (Signature):	Date: 10/21/21	#2 Relinquished by (Signature):	Date:	Sample Storage
Sampler Signature:	Time: 0900	Company Name: DAA	Time: 17:30	Company Name:	Time:	Time Requested:
Sampler Name (Print): Ethan Truman	Date: 10/21/21	#1 Received by (Signature):	Date:	#2 Received by (Signature):	Date:	30 DYS ORG/6 MTHS INORG
Sampler Signature:	Time: 0900	Company Name:	Time:	Company Name:	Time:	

Draper Aden Associates
Engineering • Surveying • Environmental Services
Blacksburg • Charlottesville • Hampton Roads • Richmond, Virginia
www.daa.com

2206 South Main Street
Blacksburg, Virginia 24060
(540) 552-0444 (T) (540) 552-0291 (F)

Location Notes:

Project Name: Intermet PII
Site Location: Lynchburg, VA
DAA JN: B12188B
Date: 10-20-21
Project PM/Coordinator: HSB
Logged By: KMW

Field Point Name: BMW1A
Drilling Method: DP/Auger Drilling Contractor: Davidson
Auger/Rod Diameter (In): 2"/4.5"
GS Elevation:
Depth Water Encountered:
Total Depth: Auger Refusal (Y/N):

Description of Aquifer:

Static Water Level + Date:

Sample #	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (Inches)	Other Information PID (ppm)	Other Information Sample to Lab (y/n)	Other Information ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	1	L	N	Ltbrn	Si	FSa	D						
2	1	2	L	N	white/black	FSa		D						gravel/coal ash
3	2	3	L	N	Dkbrn	FSa	Si	D		4'				pos fill
4	3	5	So	L	Dkbrn/bla	C	FSa	D						
5	5	7	So	N	Dkbrn/black	FSa								gravel/coal crystalline
6	7	8	"	N	red/redbrn					3'				pos brick frags
7	8	10	"	N	Dkbrn	FSa	Cl							some crystalline
8	10	12	"	N	grey to dark brn	FSa								pos fill
9	12	14	"	"		FSa				3.5'				
10	14	14.3	"	"										weathered qtz seam
11	14.3	15	So	L-M		Cl	Si							
12														
13														
14														
15														

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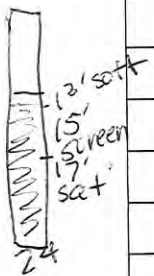
Project Name: Internet PII
Site Location: Lynchburg
DAA JN:
Date: 10-20-21
Project PM/Coordinator: HSB
Logged By: KMW / ET

Field Point Name: BMW1 B
Drilling Method: Geoprobe Drilling Contractor: Davidson
Auger/Rod Diameter (In): 2" acetate sleeve
GS Elevation: 533' above msl
Depth Water Encountered: 17 maybe 13'
Total Depth: 24 Auger Refusal (Y/N): 15'

Location Notes: Next to south face of fence approx. 20' from it Location of former machine shop chan out
Description of Aquifer:
BMW1-1 (11:50) at 0-1'
BMW1-2 (11:55) at 11-12'
Static Water Level + Date:



Depth ~~Sample #~~	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (Inches) 12	Other Information: PID (ppm)	Other Information: Sample to Lab (y/n)	Other Information: ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	1.5	L	~~N~~ L	light brown	O	Sa	D	acetate sleeve	~~20~~	—		—	organic Sand
2	1.5	2.5	L	N	light white grey	Sa	G	D	"	12	136	@	2.5'	gravel fill
3	2.5	5	St	L	dark orange black	Sa	C	M	"	30	3.7	@	5'	crystaline coal
4	5	10	St	L	dark orange black	Sa	C	M	"	30	1.8	@	7.5	crystaline coal
5	10	12	St	L	black grey	Sa	G	M	"	15	3.4	@	10	crystaline coal
6	12	13	So	H	dark brown	C	Sa	M	"	7	~~1.8~~	@	1.8 @ 11.5	clay
7	13	14	L	N	light grey	Sa	G	D	"	4	7.0		@ 12.5	sand
8	14	15	So	H	dark brown	C	Sa	M	"	4	0.8		@ 15	Clay
9														
10														
11														
12														
13														
14														
15														

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Location Notes: former foundry cleaning room 60' from B7 75' from east prop. line moved

Project Name: Internet PIT
Site Location: Lynchburg
DAA JN:
Date: 10/20/21
Project PM/Coordinator: HMB
Logged By: KMW/ET

Field Point Name: BMW 2
Drilling Method: Geoprobe Drilling Contractor: Davidson
Auger/Rod Diameter (in): Acetate Sleeve 2"
GS Elevation: 605' above MSL
Depth Water Encountered:
Total Depth: 17' Auger Refusal (Y/N): refusal @ 15'
10/20/21 using HSA

Description of Aquifer:

BMW2-1 (13.15) 0'-1'
BMW2-2 (13.20) 14'-15'

Static Water Level + Date:

depth Sample #	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (Inches)	Other Information: PID (ppm)	Other Information: Sample to Lab (Y/N)	Other Information: ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	2.5	L	N	light brown	O	Sa	D	acetate sleeve	15	22 ppm @ 2.5'			sandy soil
2	2.5	4	L	N	light grey	Sa	Si	D	"	15	11.8 ppm @ 5'			fill sand
3	4	12.5	So	M	black + orange	G	C	M	"	64	3.3 ppm @ 7.5'			crystaline coal
4	12.5	14.5	L	N	light grey	Sa	G	D	"	9	5.0 ppm @ 10'			gravel fill
5	14.5	15	F	M	dark brown	C	Sa	M	"	5	10.3 ppm @ 12.5'			clay
6											16.5 pp @ 15'			
7														
8														
9														
10														
11														
12														
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15														

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Location Notes: Near MW-2/B MW2 east of rail spur

Project Name: Intermet PW
Site Location:
DAA JN:
Date: 10/20/21
Project PM/Coordinator:
Logged By: HMB

Field Point Name: B7
Drilling Method: Geoprobe Drilling Contractor:
Auger/Rod Diameter (in):
GS Elevation: 600'
Depth Water Encountered:
Total Depth: Auger Refusal (Y/N):

Description of Aquifer:

Static Water Level + Date: B7-1 (14:20) @ 0'-2' B7-2 (14:25) @ 10'-12'

Sample #	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (Inches)	Other Information: PID (ppm)	Other Information: Sample to Lab (y/n)	Other Information: ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	4	L	N	light grey	Sa	Si	D	acetate sleeve	15	12.8ppm @ 2.5'			concrete + till
2	4	4.5	So	M	light orange	Sa	Si	M	"	2	7.7ppm @ 5'			fill sand
3	4.5	15	L	L	black orange	C	Si	M	"	46	10.8ppm @ 7.5'			crystalline coal
4											7.0 ppm @ 10'			
5											14.4ppm @ 12.5'			
6											8.7 ppm @ 15'			
7														
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9														
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Location Notes:

Project Name:
Site Location:
DAA JN:
Date: 10/20/21
Project PM/Coordinator:
Logged By:

Field Point Name: B8
Drilling Method: Drilling Contractor:
Auger/Rod Diameter (in):
GS Elevation:
Depth Water Encountered:
Total Depth: Auger Refusal (Y/N): 15

Description of Aquifer:

B8-1 : (15:00) 1'-2'
B8-2 : (15:05) 9'-10'

Static Water Level + Date:

Sample #	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (inches)	Other Information: PID (ppm)	Other Information: Sample to Lab (y/n)	Other Information: ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0'	0.5'	L	L	~~black~~ ~~orange~~ brown	O	Sa	M	acetate sleeve	7	0.8	=	2.5'	organic soil
2	0.5'	7.5'	L	L	black/orange	C	Sa	M	"	55	3.4	=	5'	crystalline coal
3	7.5'	8'	L	N	grey	G	Sa	D	"	2	310	=	7.5'	
4	8'	12.5'	So	H	dark brown	C	Si	M	"	~~10~~ 35	1,625	=	10'	Petroleum odor
5	12.5'	15	F	H	dark brown	C	Si	M	"	25	23.2	=	12.5'	↓↑
6											11.7'	=	15'	
7														
8														
9														
10														
11														
12														
13														
14														
15														

0-15' B10 get soil log/observe unless something - None
* No duplicates
0-15' B12 just collect surface jar for metals and PCBs - Decide

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Location Notes:

Project Name:
Site Location:
DAA JN:
Date: 10/20/21
Project PM/Coordinator:
Logged By:

Field Point Name: B9
Drilling Method: Drilling Contractor:
Auger/Rod Diameter (in):
GS Elevation:
Depth Water Encountered:
Total Depth: Auger Refusal (Y/N): 15'

Description of Aquifer:

B9-1 (15:40) 0'-1'
B9-2 (15:45) 9'-10'

Static Water Level + Date:

Sample #	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (Inches)	Other Information: PID (ppm)	Other Information: Sample to Lab (y/n)	Other Information: ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	1.5	L	N	brown	O	Sa	D	acetate sleeve	10	1.3ppm		@ 2.5'	organic soil
2	1.5	8	F	L	black + orange	C	G	M	"	60	8.1 ppm		@ 5'	crystalline coal
3	8	15	So	M	light brown	Sa	C	M	"	45	7.7ppm		@ 7.5'	grey and light brown sands
4											9.1 ppm		@ 10'	
5											7.4ppm		@12.5'	
6											9.4 ppm		@15'	
7														
8														
9														
10														
11														
12														
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14														
15														

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Location Notes:

Project Name:
Site Location:
DAA JN:
Date: 10/20/21
Project PM/Coordinator:
Logged By:

Field Point Name: B10
Drilling Method: Drilling Contractor:
Auger/Rod Diameter (in):
GS Elevation:
Depth Water Encountered:
Total Depth: Auger Refusal (Y/N): 15'

Description of Aquifer:
B10-1 (13:30) 0'-5'
~~Not Sampled~~
Static Water Level + Date:

Sample #	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (Inches)	Other Information: PID (ppm)	Other Information: Sample to Lab (y/n)	Other Information: ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	1.5	L	N	light brown	O	Sa	D	acetate sleeve	7	0.0 ppm @ 2.5'			organic soil
2	1.5'	7.5'	So	L	black + orange	C	Sa	M	"	55	0.9 ppm @ 5'			foundry sands
3	7.5	12.5'	St	H	brown	C	Sa	M	"	40	0.4 ppm @ 7.5'			sands
4	12.5'	15'	So	H	orange brown	C	Si	M	"	12	1.6 ppm @ 10'			clays
5											1.7 ppm @ 12.5'			
6											1.2 ppm @ 15'			
7														
8														
9														
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15														

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Location Notes:

Project Name:
Site Location:
DAA JN:
Date: 10/20/21
Project PM/Coordinator:
Logged By:

Field Point Name: B6
Drilling Method: Drilling Contractor:
Auger/Rod Diameter (in):
GS Elevation:
Depth Water Encountered:
Total Depth: Auger Refusal (Y/N): (N) 15'

Description of Aquifer:

Static Water Level + Date:
B6-1: (16:25) at 0'-1'
B6-2: (16:30) at 6'-7'

Sample #	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (Inches)	Other Information: PID (ppm)	Other Information: Sample to Lab (y/n)	Other Information: ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	2	L	N	light grey	G	Sa	D	acetate sleeve		0.1 ppm = 2.5'			gravel
2	2	7	L	L	black + orange	C	Sa	M	"		0.0 ppm = 5'			founding sands
3	7	15	H	H	brown	C	Si	M	"		0.3 ppm = 7.5'			clay
4											0.4 ppm = 10'			
5											0.9 ppm = 12.5'			
6											0.0 ppm = 15'			
7														
8														
9														
10														
11														
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14														
15														

*Grab notes from ET

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Location Notes:

Project Name: Intermet PII
Site Location: Lynchburg, VA
DAA JN:
Date: 10/21/21
Project PM/Coordinator:
Logged By: ETT

Field Point Name: B5
Drilling Method: Drilling Contractor:
Auger/Rod Diameter (in):
GS Elevation:
Depth Water Encountered:
Total Depth: Auger Refusal (Y/N) 0 15'

Description of Aquifer:

B5-1 (10:25) @ 0'-2'
B5-2 (10:30) @ 11'-12'

Static Water Level + Date:

~~depth~~ ~~Sample~~	Depth (Feet) From	Depth (Feet) To	Consistency/Density (L=Loose So=Soft F=Firm St=Stiff H=Hard)	Plasticity (N=None L=Low M=Medium H=High)	Color(s)	Major Component (G=Gravel Sa=Sand C=Clay Si=Silt O=Org)	Minor Component	Water Content (D=Dry M=Moist W=Wet)	Sample Type (C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core)	Recovery (Inches)	Other Information: PID (ppm)	Other Information: Sample to Lab (y/n)	Other Information: ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	11"	L	L	Brown ~~Br~~	Or ~~Sa~~	Sa ~~Or~~	Dry		24"	4.8 ppm @ 2.5'			Brown to orange no odor
2	11"	21"	L	N	Gray ~~Br~~	Gr ~~Sa~~	Sa ~~Or~~	Dry		↓	5.9 ppm @ 5'			gray to white
3	21"	34"	L	M	Gray black	Sa	Gr	M		↓	6.2 ppm @ 7.5'			gray to black
4	34"	56"	So	M	Brown	C	Sa	M		↓	2.9 ppm @ 10'			no odor
5	56"	71"	L	~~M~~	gray black	Sa	Gr	M		34"	5.7 ppm @ 12.5'			no odor
6	71"	111"	H	H	brown	C	Sa	W		↓	7.0 ppm @ 15'			no odor
7										↓				
8										↓				
9										↓				
10										60"				
11										↓				
12										↓				
13										↓				
14										↓				
15										↓				

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Location Notes: Near rail and chain link fence on SW corner, central on-site

Project Name:
Site Location:
DAA JN:
Date: 10/21/21
Project PM/Coordinator:
Logged By: HMB

Field Point Name: B4
Drilling Method: Drilling Contractor:
Auger/Rod Diameter (In):
GS Elevation:
Depth Water Encountered:
Total Depth: Auger Refusal (Y/N): 15

Description of Aquifer:

B4-1 (11:20) 0'-2'
B4-2 (11:25) 9'-10'
Static Water Level + Date: MS/MSD (10-11') (11:25)

Sample #	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (Inches)	Other Information: PID (ppm)	Other Information: Sample to Lab (Y/N)	Other Information: ASTM Classification ~~Field~~ Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	8	L	L	grey brown	G	C	M	acetate sleeve	25	0.0ppm @ 2.5'			gravel fill
2	8	13.5	H	H	brown	C	Sa	M	"	55	0.0ppm @ 5'			clay tight
3	13.5	15	So	H	brown	C	Sa	W	"	20	0.0ppm @ 7.5'			saturated at 13.5'
4											0.0ppm @ 10'			
5											0.0ppm @ 12.5'			
6											0.0ppm @ 15'			
7														
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Location Notes: Facing Concord Tnpk in front of chain link fence midway

Project Name:
Site Location:
DAA JN:
Date: 10/21/21
Project PM/Coordinator:
Logged By: HMB

Field Point Name: B3
Drilling Method: Drilling Contractor:
Auger/Rod Diameter (In):
GS Elevation:
Depth Water Encountered:
Total Depth: Auger Refusal (Y/N): 15

Description of Aquifer:

B3-1 (12:25) @ 0'-1'
B3-2 (12:30) @ 4'-5'

Static Water Level + Date:

Sample #	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (Inches)	Other Information: PID (ppm)	Other Information: Sample to Lab (y/n)	Other Information: ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	2	H	H	red clay	C	G	M	acetate sleeve	21	34.5ppm @ 2.5'			
2	2	3.5	L	N	light white	Sa	G	D	"	8	107.9ppm @ 5'			
3	3.5	7.5	L	N	black + orange	Sa	C	D	"	37	27.7ppm @ 7.5'			foundry sands
4	7.5	15	L	N	black + orange	Sa	C	M	"	~~15~~ 38	23.8ppm @ 10'			foundry sands
5											42.7ppm @ 12.5'			
6											22.2ppm @ 15'			
7														
8														
9														
10														
11														
12														
13														
14														
15														

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Location Notes: North portion near Concord Tnpk

Project Name:
Site Location:
DAA JN:
Date: 10/21/21
Project PM/Coordinator:
Logged By:

Field Point Name: B2
Drilling Method: Drilling Contractor:
Auger/Rod Diameter (In):
GS Elevation:
Depth Water Encountered:
Total Depth: Auger Refusal (Y/N): @ 15'

Description of Aquifer:

B2-1 (13:15) at 0'-1' *MS/MSD
B2-2 (13:20) at 4'-5'

Static Water Level + Date:

Sample #	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (Inches)	Other Information: PID (ppm)	Other Information: Sample to Lab (y/n)	Other Information: ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	1	L	N	grey	G	Sa	D	acetate sleeves		53.5		@ 2.5'	
2	1	5	L	N	black	Sa	C	D	"		97.9		@ 5'	
3	5	7.5	L	N	grey	G	Sa	D	"		60.8		@ 7.5'	
4	7.5	8.5	L	M	black	Sa	C	M	"		7.7		@ 10'	
5	8.5	9	L	M	white	Sa	G	M	"		8.2		@ 12.5'	
6	9	11	F	M	black	Sa	C	M	"		37.9		@ 15'	
7	11	14	So	N	grey	G	Sa	M	"					
8	14	15	F	M	black	Sa	C	M	"					
9														
10														
11														
12														
13														
14														
15														

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Location Notes:

Project Name:
Site Location:
DAA JN:
Date:
Project PM/Coordinator:
Logged By:

Field Point Name: B1
Drilling Method: Drilling Contractor:
Auger/Rod Diameter (in):
GS Elevation:
Depth Water Encountered:
Total Depth: Auger Refusal (Y/N):

Description of Aquifer:

B1-1 (15:15) @ 1'-2'
B1-2 (15:20) @ 11'-12'

Static Water Level + Date:

Sample #	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (Inches)	Other Information: PID (ppm)	Other Information: Sample to Lab (y/n)	Other Information: ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	2	L	N	White	G	Sa	D	acetate sleeve		125.7 ppm @ 2.5'			
2	2	2.5	St	L	dark grey	~~Sa~~	Sa	M	"		174.3 ppm @ 5'			
3	2.5	6	H/L	L	red	G	Sa	D	"		155.5 ppm @ 7.5'			"brick"
4	6	15	H	H	brown	C	Si	M	"		230.2 ppm @ 10'			
5											336.4 ppm @ 12.5'			
6											224.8 ppm @ 15'			
7														
8														
9														
10														
11														
12														
13														
14														
15														

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Location Notes: Close to Garnet Warehouse

Project Name:
Site Location:
DAA JN:
Date: 10/21/21
Project PM/Coordinator:
Logged By: HMB

Field Point Name: B12
Drilling Method: Drilling Contractor:
Auger/Rod Diameter (in):
GS Elevation:
Depth Water Encountered:
Total Depth: Auger Refusal (Y/N): 15'

Description of Aquifer:

Static Water Level + Date:
B12-1 (14:25) @ 0'-1'
B12-2 (14:30) @ 6'-7'
B12-3 (14:35) @ 14-15'

Sample #	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (Inches)	Other Information: PID (ppm)	Other Information: Sample to Lab (y/n)	Other Information: ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	2	L	N	brown	G	Sa	D	acetate sleeve	17	48.9 ppm @ 2.5'			
2	2	3	L	N	white	Sa	G	D	"	8	16.9 ppm @ 5'			
3	3	5	F	M	brown	C	G	M	"	13	324.9 ppm @ 7.5'			
4	5	7	So	H	grey	Sa	C	M	"	11	216.9 ppm @ 10'			
5	7	9.5	So	H	black	GC	Sa	M	"	20	162.5 ppm @ 12.5			
6	9.5	11.5	So	H	grey	C	Si	W	"	20	396 ppm @ 15'			
7	11.5	14	St	H	grey	C	Si	M	"	20				
8	14	15	So	H	grey	C	Si	W	"	15				
9														
10														
11														
12														
13														
14														
15														

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Location Notes:

Project Name:
Site Location:
DAA JN:
Date: 10/21/21
Project PM/Coordinator:
Logged By: HMB

Field Point Name: B11
Drilling Method: Drilling Contractor:
Auger/Rod Diameter (in):
GS Elevation:
Depth Water Encountered:
Total Depth: Auger Refusal (Y/N): 015

Description of Aquifer:

B11-1 (15:40) 0'-1'
B11-2 (15:45) 9'-10'

Static Water Level + Date:

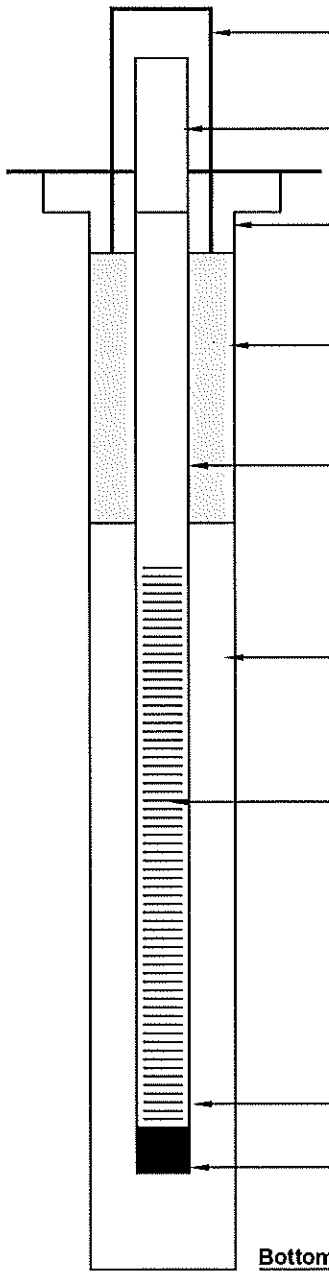
Sample #	Depth (Feet) From	Depth (Feet) To	Consistency/Density L=Loose So=Soft F=Firm St=Stiff H=Hard	Plasticity N=None L=Low M=Medium H=High	Color(s)	Major Component G=Gravel Sa=Sand C=Clay Si=Silt O=Org	Minor Component	Water Content D=Dry M=Moist W=Wet	Sample Type C=Cuttings SS=Split Spoon ST=Shelby Tube RC=Rock Core	Recovery (Inches)	Other Information PID (ppm)	Other Information Sample to Lab (y/n)	Other Information ASTM Classification Field Observed	Remarks (Angularity, Shape, Odor, Cementation, Structure, Other)
1	0	2.5	L	N	grey	G	Sa	D	acetate sleeves		11.9ppm=2.5'ppm			
2	2.5	3	L	N	white	G	Sa	D	"		12.8ppm=5'ppm			
3	3	3.5	L	L	dark brown	C	Sa	M	"		11.0ppm=7.5'ppm			
4	3.5	4	L	L	red	G	Sa	M	"		19.2ppm=10'ppm			
5	4	5	H	H	brown	C	Sa	M	"		13.2ppm=12.5'ppm			
6											11.3ppm=15'ppm			
7														
8														
9														
10														
11														
12														
13														
14														
15														

As-Built Well Completion Diagram

Project Number:	Boring/Monitoring Well Number: MW-1/BMW-7 Sheet: 1 of:
Project:	Location:
Elevation: 533'	Drilling Contractor:
Drilling Method and Equipment Used: Hollow Stem Auger	Logged By: H. Busby
Water Levels:	Completion Start: 11:00 Finish: 12:00

Ecology Well ID _____

Soil Type/ Depth	Completion Depths



Monument Type/Height _____

Well Cap Type _____

Surface Seal Material _____

Seal Material bentonite
(list NSF/ANSI certification)

Well Casing ID _____

Type of Casing _____

Type of Connection _____

Filter Pack/Size _____

Filter Pack Interval 9'-24'

Well Screen ID _____

Type of Screen _____

Slot Size _____

Screen Interval 11'-24'

Centralizers _____

Diameter of Borehole _____

Sump _____

Bottom of Boring 24'

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Materials Used:	Screen:
Sand:	Bentonite:
Blank:	Monument:
Concrete:	Other:

As-Built Well Completion Diagram

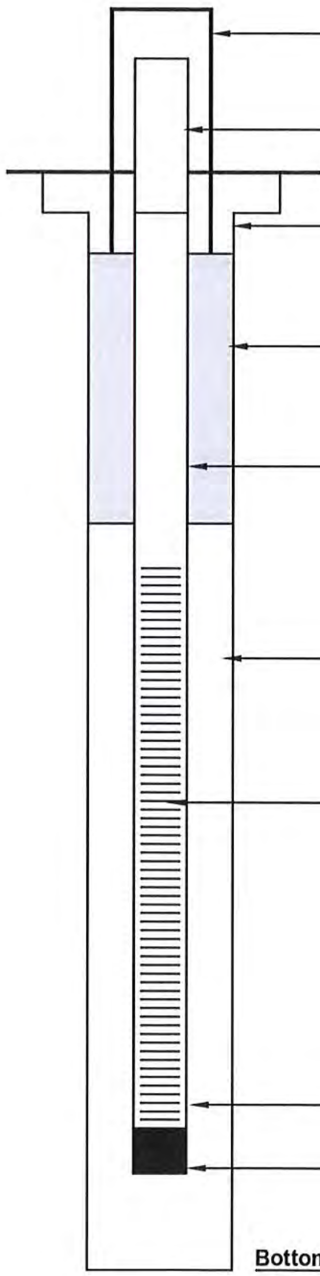
Project Number:	Boring/Monitoring Well Number: BMW2 Sheet: of:
Project:	Location:
Elevation:	Drilling Contractor:
Drilling Method and Equipment Used:	Logged By:
Water Levels: 5' of water @ 17' in well	Completion Start: Finish:

Ecology Well ID ______________

Soil Type/ Depth

Completion Depths

soft spot @ 20'



Monument Type/Height flush mount

Well Cap Type ______________

Surface Seal Material ______________

Seal Material ______________
(list NSF/ANSI certification)

Well Casing ID ______________

Type of Casing ______________

Type of Connection ______________

Filter Pack/Size ______________

Filter Pack Interval 10'-22'

Well Screen ID ______________

Type of Screen ______________

Slot Size ______________

Screen Interval 12'-22'

Centralizers ______________

Diameter of Borehole ______________

Sump ______________

Bottom of Boring 22'

Draper Aden Associates *Engineering • Surveying • Environmental Services*	Materials Used:	Screen:
	Sand:	Bentonite:
	Blank:	Monument:
	Concrete:	Other:

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Site-Specific Health & Safety Plan

Project: Intervmet PII	Date: 10/20-10/21	Level of training required:	40-hr OSHA HAZWOPER
Project No.: B12188B-14	Phone: 540-557-1322	Type of work to be done (check all that apply):	

Name & Street Address: 1651 Concord Tnpk, Lynchburg VA 24504		**Sampling:**	☒ Soil ☒ Groundwater ☐ Other
Description of work area: Vacant lot		**Drilling:**	☒
Weather Conditions: Sunny, 65°F		**ESA:** No.	☐ Phase I ☒ Phase II
Temperature: 65°F Safety zone (ft): 2 x drilling boom height - 20'		**Confined space entry:**	☐
Project Manager: K. Weber	Phone: 540-557-1322		
Client:	Phone: 434-444-3878	**Air monitoring required:**	☐
Site Client Contact: K. Weber	Phone: 540-557-1322		
Site Worker: H. Busby	Phone: 540-557-1349	**Spill containment needed:**	☐
Draper Aden Associates H&S officer Ken Coddington	Phone: 540-250-2229		

Additional decontamination procedures needed: ☒
During Phase II drilling, drillers will decontaminate samplers before reuse. DAA has a 3 phase decon procedure for non-dedicated equipment.

National Response Center (oil and toxic spills) _____

LOCAL		**LOCAL, cont.**	
Poison Control Center:	800-222-1222	Ambulance:	911
Emergency Response Team:		Public Health Agency:	
Police:	911	Local Medical Facility:	
Hospital Name & Phone No.	(Attach Directions)		

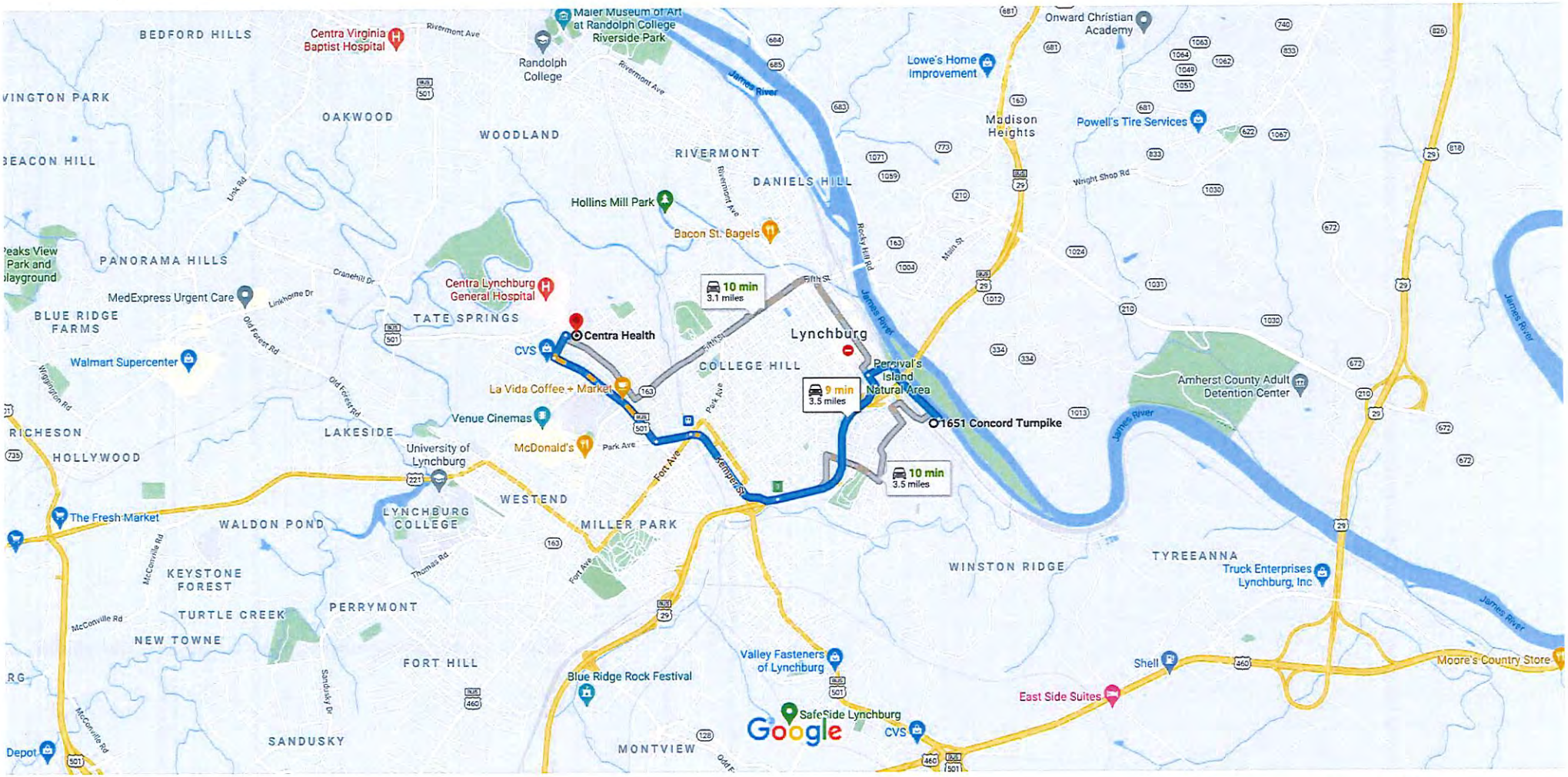
List known or suspected hazardous materials and contaminants at this site (use back of page for additional space).

CHEMICAL NAME	CONCENTRATIONS	PRIMARY HAZARDS	FIRST AID INSTRUCTIONS	MSDS Attached
Volatile Organic Compounds (soil/vapor)	Unknown	Ingestion, inhalation, and dermal contact.	Inhalation: Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Move victim to fresh air.	
Semi-Volatile Organic Compounds (soil)	Unknown	Ingestion, inhalation, and dermal contact.	Skin Contact: Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 5 minutes.	
Metals & Cyanide (soil)	Unknown	Ingestion, inhalation, and dermal contact.	Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If irritation or pain persists, see a doctor.	
Acid preservatives (sample containers)	Low if any	Ingestion, inhalation, and dermal contact.	Ingestion: Have victim rinse mouth with water. Call a Poison Center or doctor if the victim feels unwell.	
Polychlorinated biphenyls (soil)	Low if any	Ingestion, inhalation, and dermal contact.		
Respirable Crystalline Silica (air)	Low if any	Inhalation		

Potential Seasonal Hazards:	Ticks, snakes, heat exhaustion
Additional hazards at site:	Heavy equipment, tripping hazard/surface grade, COVID-19 measures: no sharing of PPE and 6+ feet distance between workers, designate equipment use to one person throughout the day when possible, clean shared equipment with disinfecting wipes between shared uses where appropriate and use separate vehicles for travel per DAA policy. Contamination is unknown at time of request; however, impacts may include typical chemicals used in industrial facilities.
Level of personal protection required at this site:	**OSHA Level D - hard hat (hard hat zone = 2x drilling boom height), reflective vests, nitrile gloves, safety glasses, steel-toed boots**
Personal protective clothing required?	**Face mask as preventative COVID-19 measure, long pants & long sleeve shirt**

Google Maps 1651 Concord Turnpike, Lynchburg, VA 24504 to Centra Health

Drive 3.5 miles, 9 min



Map data ©2021 2000 ft

via Langhorne Rd 9 min

Fastest route now, avoids road closures on 12th St due to construction 3.5 miles

via Fifth St 10 min

3.1 miles

CHAIN OF CUSTODY RECORD

Laboratory: Pace Analytical Services, LLC (formerly Shealy) 106 Vantage Point Drive, West Columbia, SC 29172 Project Manager Cathy Dover (803) 227-3160

Client: Lynchburg EDA Attn: Marjette Upshur Address: 900 Church St Lynchburg, VA Phone: (434) 455-4492 Fax:	Consultant: Draper Aden Associates Attn: Janet C. Frazier Address: 2206 South Main Street Blacksburg, Virginia 24060 Phone: (540) 552-0444 Fax: (540) 552-0291	Former Intermet/Lynchburg Foundry Site 1651 Concord Tnpk Lynchburg, VA Phase II ESA B12188B-10HM	Project Specific (PS) or Batch (B) QC: Sample Collection for Project Complete? YES 1E237 3010197014515 Carrier: ____ Tracking Number: ____

Box 1: Matrix
- SW Surface Water
- GW Groundwater
- L Leachate
- S Soil
- T Trip Blank
- E Equipment Blank
- P Product
- O Other

Box 2: Preservative
- A HCl
- B HNO_3
- C H_2SO_4
- D $Na_2S_2O_3$

Box 3
Filtered - F
Unfiltered U

Box 4: Sample Type
- G Grab
- C Composite

Box 5: Container
- AG amber glass
- CG Clear Glass
- V- VOA
- p-plastic

Invoice
Copy to Consultant: YES
Bill: Consultant OTHER ____
Preserved and shipped on ice: YES

Box 4 - Sample Type					G	G	G	G	G	G	
Box 3 - Filtered/Unfiltered					U	U	U	U	U	U	
Required pH of Sample					<2			<2	<2	<2	
Box 2 - Preservative					A	H	H	A	B	A	
Box 5 - Sample Container Type					3- 40 ml VOA	3-40 mlVOA	2- 250 ml AG	1 - 250 ml P	1 - 250 ml P	1 - 250 ml P	
Sample ID	Date: 2021	Time	Box 1: Matrix	Number of Bottles	VOCs- TAL List 8260D/5030B - extra low level (XLL)	VOCs- TAL List 8260D/5030B - extra low level (XLL) - unpresevered. Use if effevescence noted.	8270E/3520C - TAL Semivolatiles including PAHs (See attached TAL analyte list)	6020B (3005A)/7470A - Total Metals (TAL)	9012B/3020A - Cyanide	6020B/7470A/3005A - Dissolved Metals (TAL) - use if sample is turbid	
MW1	10-27	1130	GW	7	X		X	X	X		
MW2	10-27	1235	GW	7	X		X	X	X		
MW2MS	10-27	1235	GW	7	X		X	X	X		
MW2MSD	10-27	1235	GW	7	X		X	X	X		
Trip Blank	10-27-21	0800	TB	2	X						

SAMPLER 10/27/21

GENERAL NOTES:

1. Full deliverable with BF EDD (electronic report only).
2. Report DL/QL and estimated results.
3. VELAP Accreditation required.
4. See attached target analyte lists.
5. Report results in ug/l.
6. EPA/Brownfield Project

1 trip blank per day. Consolidate VOCs with trip blank.

Clients Special Instructions:

Received by lab in Good Condition ____ Yes ____ No Custody Seal Intact ____ Yes ____ No Temperature upon arrival ____ Received on Ice ____ Yes ____ No
Describe problems, if any:

Sampler Name (Print): Ian McGregor	Date: 10-27-21	#1 Relinquished by (Signature):	Date: 10-27-21	#2 Relinquished by (Signature):	Date:	Sample Storage Time Requested:
Sampler Signature:	Time: 0730	Company Name: DAA	Time: 1700	Company Name:	Time:	
Sampler Name (Print):	Date:	#1 Received by (Signature):	Date:	#2 Received by (Signature):	Date:	30 DYS ORG/6 MTHS INORG
Sampler Signature:	Time:	Company Name:	Time:	Company Name:	Time:	

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-2 Page: 1 of 1

Project Name: Former Intermet
Project Number: B12188B-10HM

Date: 10-27-21
Developed by: ISM
Measuring Point of Well: Top of casing
Screened Interval (ft. TOC)
Filter Pack Interval (ft. TOC)

Starting Water Level (ft TOC): 16.90
Casing Stickup (ft): Flush Mount
Total Depth (ft TOC): 21.91
Casing Diameter (inches): 2"

Casing Volume 5.01 (ft Water) x .163 (Lpfv)(gpf) = 0.82 (L)(gal)

Casing volumes: 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): 20'

PURGING MEASUREMENTS

Time	Cumul. Vol. (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (C or F)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Eh ORP (mv)	Turbidity (NTU)	Comments
1205	.2 L	≤.2 Lpm	16.91	17.6	811.6		6.72	-57	350	Cloudy
1210	1.0	"	16.91	17.5	810.2		6.68	-60	98.4	Sl cloudy
1215	2.0	"	16.91	17.5	809.9		6.70	-61	70.9	Clear
1220	3.0	"	16.91	17.5	808.8		6.71	-60	41.1	Clear
1225	4.0	"	16.91	17.5	808.3		6.72	-61	22.3	Clear
1230	5.0	"	16.91	17.5	807.7		6.72	-61	7.21	Clear

Total Gallons Purged: 1.32
Total Casing Volumes Removed: 1.61
Ending Water Level (ft TOC): 16.91
Ending Total Depth (ft TOC): 21.91

SAMPLE INVENTORY

Time	Volume	Bottle Type		Quantity	Filtration	Preservation	Appearance: Color	Appearance: Turbidity & Sediment	Remarks
1235	40mL	VOA		9	—	HCL	None	Sl Cloudy	
1235	250mL	Glass		6	—	—	"	Sl Cloudy	
1235	250mL	Plastic		3	—	NAOH	"	Sl Cloudy	
1235	250mL	Plastic		3	—	HNO_3	"	Clear	

METHODS

Sampling Equipment and IDs: Proactive Typhoon Pump #2
Purging Equipment: Pump
Decon Equipment: Decon bucket, brushes
Disposal of Discharged Water: Drum onsite

Observations/Comments:

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-1 Page: 1 of 1

Project Name: Fosmer Intermet
Project Number: B12188B-10HM

Date: 10-27-21
Developed by: ISM
Measuring Point of Well: Top of casing
Screened Interval (ft. TOC)
Filter Pack Interval (ft. TOC)

Starting Water Level (ft TOC): 17.90
Casing Stickup (ft): Flush Mount
Total Depth (ft TOC): 24.04
Casing Diameter (inches): 2"

Casing Volume 6.14 (ft Water) x .163 (Lpfv)(gpf) = 1.00 (L)(gal)

Casing volumes: 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): ~21'

PURGING MEASUREMENTS

Time	Cumul. Vol. (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (C or F)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Eh ORP (mv)	Turbidity (NTU)	Comments
1100	.2 Lpm	<.2 Lpm	18.99	17.4	594.9		6.23	74	625	Cloudy
1105	.4 1.0L	"	19.05	17.5	600.3		6.26	-13	153	Sl cloudy
1110	.6 2.0	"	19.15	17.5	602.5		6.29	-27	81.8	Sl cloudy
1115	.8 3.0	"	19.17	17.5	634.1		6.41	-58	62.1	Clear
1120	1.0 4.0	"	19.18	17.5	638.9		6.43	-54	23.4	Clear
1125	1.2 5.0	"	19.21	17.5	636.1		6.40	-63	14.2	Clear

Total Gallons Purged: 1.32 Gal
Total Casing Volumes Removed: 1.32
Ending Water Level (ft TOC): 20.08
Ending Total Depth (ft TOC): 24.04

SAMPLE INVENTORY

Time	Volume	Bottle Type		Quantity	Filtration	Preservation	Appearance: Color	Appearance: Turbidity & Sediment	Remarks
1130	40mL	VOA		3	—	HCL	None	Sl Cloudy	
1130	250mL	Plastic		1	—	NAOH	"	Sl Cloudy	
1130	250mL	Plastic		1	—	HNO3	"	Clear	
1130	250mL	Glass		2	—	—	"	Sl Cloudy	

METHODS

Sampling Equipment and IDs: Proactive typhoon pump / Pump #1
Purging Equipment: pump
Decon Equipment: decon bucket, brushes
Disposal of Discharged Water: Drum onsite
Observations/Comments:

WELL DEVELOPMENT RECORD | **WELL NUMBER:** MW-1 | **Page:** 1 of 1

Project Name: Former Intermet | Project Number: B12188B-10HM | Date: 10-25-21

Observor: | Developed by: ISM

Screened Interval (ft. BGS) _____ | Measuring Point on Well: Top of Casing

Filter Pack Interval (ft. BGS) _____ | Casing Stickup (ft): Flush mount

Casing Size (in): _____ Mtl & Scd _____ ID (in) _____ | Starting Water Level (ft TOC): 17.97

Screen Size (in): _____ Mtl & Scd _____ ID (in) _____ | Starting Total Depth (ft TOC): 24.03

Screen Type: _____ | Casing Volume 6.06 (ft water) x ~~0.99~~ .163 (gpf) = 0.99 (gal)

Casing Volumes: 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf

DEVELOPMENT MEASUREMENTS

Time	Cumul. Vol. (gallons)	Purge Rate (gpm)	Temp.	Specific Conductance (umhos/cm)	pH	Turbidity	Imhoff Cone (ml/L)	Development Techniques
0930	.10	.10	18.0	679.3	6.50	259		Surge w/pump
0935	~~.20~~ .5	"	17.4	700.4	6.42	≤1000		"
0940	~~.30~~ 1.0	"	17.4	685.9	6.46	≤1000		"
0945	~~.40~~ 1.5	"	17.9	691.3	6.48	≤1000		"
0950	~~.50~~ 2.0	"	18.1	699.9	6.45	≤1000		"
0955	~~.60~~ 2.5	"	18.1	671.2	6.47	≤1000		"
1000	~~.70~~ 3.0	"	18.0	663.8	6.49	837		"
1005	~~.80~~ 3.5	"	18.5	661.4	6.51	≤1000		"
1010	~~.90~~ 4.0	"	18.4	668.8	6.53	692		"
1015	~~1.00~~ 4.5	"	18.4	665.7	6.53	739		"
1020	~~1.10~~ 5.0	"	18.4	665.4	6.53	703		"
1025	~~1.20~~ 5.5	"	18.4	667.7	6.54	681		"
1030	~~1.30~~ 6.0	"	18.4	669.5	6.55	821		"
1035	~~1.40~~ 6.5	"	18.4	668.8	6.55	617		"
1040	~~1.50~~ 7.0	"	18.4	668.9	6.54	601		"
1045	~~1.60~~ 7.5	"	18.4	668.1	6.55	517		"
1050	~~1.70~~ 8.0	"	18.4	668.2	6.54	499		"
1055	8.5	"	18.4	667.9	6.54	516		"
1100	9.0	"	18.5	667.1	6.54	522		"

Total Gallons Removed: 9.0 | Ending Water Level (ft TOC): 21.93

Total Casing Volumes Removed: 9.0 | Ending Total Depth (ft TOC): 24.04

METHODS

Cleaning Equipment: Decon bucket, brushes

Development Equipment: Proactive pump

Disposal of Discharged Water: 50 Gal drum onsite

Observations/Comments: well produced w. 10 GPM

WELL DEVELOPMENT RECORD

WELL NUMBER: MW-2 Page: 1 of 1

Project Name: Former Intesmet
Project Number: B12188B-10HM Date: 10-25-21
Observor:
Developed by: ISM
Screened Interval (ft. BGS)
Measuring Point on Well: Top of Casing
Filter Pack Interval (ft. BGS)
Casing Stickup (ft): Flush Mount
Casing Size (in): Mtl & Scd ID (in)
Starting Water Level (ft TOC): 16.85
Screen Size (in): Mtl & Scd ID (in)
Starting Total Depth (ft TOC): 21.88
Screen Type:
Casing Volume 5.03 (ft water) x 0.163 (gpf) = 0.82 (gal)
Casing Volumes: 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf

DEVELOPMENT MEASUREMENTS

Time	Cumul. Vol. (gallons)	Purge Rate (gpm)	Temp.	Specific Conductance (umhos/cm)	pH	Turbidity	Imhoff Cone (ml/L)	Development Techniques
1115 ~~1114~~	.25	.25	17.1	813.9	6.78	≤1000		Surge pump
1120	1.25	"	17.1	817.1	6.71	≤1000		"
1125	2.50	"	17.2	817.3	6.72	≤1000		"
1130	3.75	"	17.1	818.4	6.69	≤1000		"
1135	5.0	"	17.1	817.7	6.69	≤1000		"
1140	6.25	"	17.1	810.2	6.71	≤1000		"
1145	7.50	"	17.2	812.5	6.68	≤1000		"
1150	8.75	"	17.1	819.8	6.67	826		"
1200	10.00	"	17.1	821.9	6.68	667		"
1205	11.25	"	17.1	820.5	6.68	532		"
1210	12.50	"	17.2	820.1	6.71	217		"
1215	13.75	"	17.2	819.9	6.70	199		"
1220	15.00	"	17.1	818.6	6.68	134		"
1225	16.25	"	17.1	820.7	6.68	64.3		"
1230	17.50	"	17.1	820.7	6.64	59.9		"
1235	18.75	"	17.1	819.9	6.64	60.1		"
1240	20.00	"	17.1	820.4	6.65	59.7		"
1245	21.25	"	17.2	820.4	6.64	60.0		"
1250	22.50	"	17.1	820.0	6.64	59.1		"
1255	23.75	"	17.1	~~28~~ 820.1	6.65	59.6		"
1300	25.00	"	17.1	820.6	6.64	59.9		"

Total Gallons Removed: ~~20.0~~ 25.00
Total Casing Volumes Removed: ~~24.39~~ 30.49
Ending Water Level (ft TOC): 16.88
Ending Total Depth (ft TOC): 21.91

METHODS

Cleaning Equipment: Decon bucket, brushes
Development Equipment: Proactive pump
Disposal of Discharged Water: 50 Gal drum, onsite
Observations/Comments: well made ~.25 Gpm

Attachment 4

Laboratory Analytical Data and Validation

Draper Aden Associates
Engineering • Surveying • Environmental Services
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Memorandum

To:	File
From:	Kim Altizer, Project Environmental Scientist I
Date:	March 1, 2022
Project Name:	Former Intermet Site / Lynchburg Foundry Site – 1651 Concord Turnpike, Lynchburg, Virginia JN: B12188B-10HM
Subject:	Data Validation Report – October 20-21, 2021, October 27, 2021 and November 8, 2021 Soil and Groundwater Monitoring Event and Phase II Environmental Site Assessment-USEPA Brownfields Grant
cc:	

This memorandum documents the manual data validation of the analytical results from samples collected during the October 20-21, 2021, October 27, 2021 and November 8, 2021 Phase II Environmental Site Assessment (ESA) sampling event at Former Intermet Site / Lynchburg Foundry Site, located in Lynchburg, Virginia (See Section A1 for detailed tax parcel listing).

Draper Aden Associates of Blacksburg, Virginia collected the following soil samples on October 20-21, 2021: BMW1-1, BMW1-2, B1-1, B1-2, BMW2-1, BMW2-2, B2-1, B2-2, B3-1, B3-2, B4-1, B4-2, B5-1, B5-2, B6-1, B6-2, B7-1, B7-2, B8-1, B8-2, B9-1, B9-2, B10-1, B11-1, B11-2, B12-1, B12-2 and B12-3. Draper Aden Associates collected, on October 27, 2021, the following groundwater samples: MW1 and MW2. A trip blank was submitted for Method 8260D volatile analysis only for each day of sample collection. An equipment blank (EQB) was collected on November 8, 2021 and submitted for the following analyses: Methods 8260D, 8270E, 6020B, 7470A and 9012B. See the chain of custody (COC) for specific sampling information.

Results were generated from a laboratory accredited under the Virginia Environmental Laboratory Accreditation Program (VELAP). Data validation was conducted as specified in the Sampling and Analysis Plan (SAP) prepared for the City of Lynchburg, Lynchburg, Virginia dated September 28, 2021, except as noted below. Quality Control (QC) samples, summarized in Table 5 and Table 6 in the SAP, were collected and analyzed as noted in the SAP, unless described below.

Soils samples were analyzed for (see Table 5 in the SAP for specific location rationale and Table 7 for analytical method and analyte list):

- volatile organic compounds (VOCs)
- semi-volatile organic compounds/ polyaromatic hydrocarbons (SVOCs/PAHs)
- polychlorinated biphenyls compounds (PCBs) as Aroclors
- metals, mercury
- cyanide

Groundwater samples were analyzed for (see Table 6 in the SAP for specific location rationale and Table 7 for analytical method and analyte list):

- volatile organic compounds (VOCs)
- semi-volatile organic compounds/ polyaromatic hydrocarbons (SVOCs/PAHs)
- total metals, total mercury
- cyanide

Sample site B10-2 along with field duplicates, listed in the SAP, were not sampled. Although not listed in the SAP, site B12-3 was collected.

Samples were sent via overnight courier to Pace Analytical (formerly Shealy), (Pace), of West Columbia, South Carolina. Pace submitted results to Draper Aden Associates in final certificates of analysis, which included sample analytical results as well as relevant documentation to validate and verify the results. The target analyte lists (TAL) are included in the certificates of analysis (COA) and in Appendix C of the SAP. The final COA was received by Draper Aden Associates on December 19, 2021. Results were reported in sample delivery groups (SDGs): WJ21078, WJ22078, WK02020 and WK10133.

For organic data validation, the data were evaluated in general accordance with *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Superfund Methods Data Review, January 2017*, Region 3 Organic Level 1, where applicable and SW-846 Method requirements (Test Methods for Evaluating Solid Wastes - Physical and Chemical Methods, USEPA SW-846, 3rd edition - Final Update I, II/IIA, III and subsequent updates (SW-846)). Laboratory control limits were used in the evaluation of the data (see summary below).

For inorganic data validation, the data were evaluated in general accordance with *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017*, Region 3 Inorganic Level 1, where applicable, and SW-846 Method requirements. Laboratory control limits were used in the evaluation of the data (see summary below).

Summary tables with data validation qualifiers are provided as attachments to the Phase II ESA report. No results were rejected. Soil results were compared to USEPA November 2021 industrial and residential risk-based Regional Screening Levels (RSLs). Groundwater samples were compared to USEPA Maximum Contaminant Level (MCL), where available; and to the USEPA November 2021 tapwater risk-based Regional Screening Levels (RSLs). The MCLs, when available, supersede the tapwater RSLs.

Reporting of Laboratory Results:

The laboratory reported results at or above the method detection limit (MDL/DL). Results reported between the MDL and laboratory quantitation limit (QL) should be considered estimated concentrations. See laboratory report for laboratory data qualifiers.

Reporting of Validated Results:

The data validation qualifiers noted below were used in reporting of the final validated results:

J Analyte present. Reported value may not be accurate or precise (because certain quality control criteria were not met, or the value was below the QL). See data validation for further explanation.
U Analyte not detected at or above the MDL.
UJ Analyte not detected at or above the MDL; MDL and QL estimated. See data validation for further explanation.
B Result considered influenced by laboratory contamination.

Results remain as reported by the laboratory, except where discussed. Target analytes reported by the laboratory as detected less than the corresponding MDLs were validated and qualified as "U" to note the analyte was analyzed for, but not detected above the MDL.

Chain of Custody Documentation/Holding Time/Preservation:

Pace received the samples on ice, in good condition and with custody seals intact, except where noted. The COCs were appropriately signed and dated by field and laboratory personnel. Technical holding time and sample preservation criteria were met as per the methods, unless noted. The COCs for this sampling event are located with the COAs.

Organic Methods (groundwater and soil)

Volatiles by SW-846 Method 8260D:

- Extractions: Method 5030B (groundwater) / Method 5035 (soil)

The laboratory submitted data packages for review (SDG: WJ21078, WJ22078, WK02020 and WK10133) consisting only of the case narrative and quality control summary reports. This information was used in the data validation presented below.

Blank results, laboratory control sample (LCS), matrix spike and matrix spike duplicate (MS/MSD) and surrogate recovery results were reviewed. Laboratory control limits were used to evaluate the data, where applicable. Deviations from quality control criteria that were identified during the data review process are summarized below.

Groundwater sample MW1 was analyzed outside the holding time. MW1 detected results that at or above the detection limit were qualified as "J" and results that were not detected at or above the detection limit or QL were qualified as "UJ" to note the QC deficiency.

Acetone and chloroform were detected in the equipment blank; however, these analytes were not detected in any project sample and data qualification was not required.

For soil samples, the LCS associated with the trip blank (soil sampling event) recovered low. Trip blank results were not detected at or above the detection limit, therefore qualification of sample results was not required.

A MS/MSD or LCS/LCS duplicate was associated with soil sample analysis. 1,4-Dichlorobezene, 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene recovered low from the MS and/or MSD associated with the soil samples. These analytes were not detected at or above the DL or QL; results for these analytes in all soil samples were qualified as "UJ" to note the QC deficiency. Cyclohexane recovered high in the MS and/or MSD; results detected above the DL qualified were qualified as "J" to note the QC deficiency.

Several analytes did not meet the MS/MSD relative percent difference (RPD) requirement. Due to soils, by nature, not being homogenous, qualification was not required.

Field duplicate/sample results exhibited acceptable precision (RPD <20 water; <35 soil), where applicable. For soil analysis, sample weights varied and sample QL and MDLs were adjusted accordingly.

Semivolatiles/Polyaromatic Hydrocarbons (PAHs) by SW-846 Method: 8270E

- Extractions: Method 3520C (groundwater) / Method 3546 (soil)

The laboratory submitted data packages for review (SDG: WJ21078, WJ22078, WK02020 and WK10133) consisting only of the case narrative and quality control summary reports. This information was used in the data validation presented below.

Blank, laboratory control sample (LCS), matrix spike and matrix spike duplicate (MS/MSD) and surrogate recovery results, where applicable, were reviewed and laboratory control limits were used to evaluate the data. Deviations from quality control criteria that were identified during the data review process are summarized below.

For the groundwater samples, bis(2-ethylhexyl)phthalate was detected below the QL in the method blank. Bis(2-ethylhexyl)phthalate results that were detected at or above the detection limit were considered blank influenced and were qualified as "JB" to note the blank contamination.

For the groundwater samples, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene and dibenzo(a,h)anthracene were detected below the QL in the equipment blank. Detected results for these analytes detected at or above the detection limit or QL were considered blank influenced and were qualified as "JB" to note the blank contamination.

For the groundwater samples, several analytes recovered low in the LCS for the equipment blank. These analytes were not detected at or above the detection limit or QL and qualification was not required.

For the groundwater samples, 4-chloroaniline recovered low from the MS/MSD. 4-Chloroaniline was not detected in any project sample and 4-chloroaniline results were qualified as "UJ" to note the QC deficiency.

For select soil samples, anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, dibenzo(a,h)anthracene, di-n-butylphthalate, phenanthrene and pyrene were detected below the QL in the associated method blank. Associated results for these analytes that were detected at or above the detection limit or QL were considered blank influenced and were qualified as "JB" to note the blank contamination. Associated sample results that were not detected at or above the detection limit did not require qualification.

B8-1 was analyzed in dilution due to high concentrations of non-target analytes. Sample QLs and MDLs have been adjusted accordingly.

For the soil samples, acid fraction surrogate recoveries were low for BMW1-2, BMW2-1, B7-1, B7-2 and B8-1. Base-neutral (B/N) fraction surrogate recoveries were low for B8-2. Associated results in these sample locations not detected at or above the MDL were qualified as "UJ" and associated results for analytes detected at or above the detection limit were qualified as "J" to note this QC deficiency.

For the soil samples, atrazine, 4-chloro-3-methylphenol, 4-chloroaniline, 3-nitroaniline and 4-nitroaniline recovered low from the LCS. Associated results for the these analytes not detected at or above the detection limit or QL were qualified as "UJ" and associated results for these analytes detected at or above the detection limit or QL were qualified as "J" to note this QC deficiency.

For the soil samples, the MS and/or MSD recovered low and/or did not recover for several analytes. Associated results for analytes not detected at or above the MDL were qualified as "UJ" and associated results for analytes detected at or above the detection limit were qualified as "J" to note this QC deficiency. Several analytes recovered high from the MS and/or MSD; however, these analytes were not detected in any sample at or above the detection limit and did not require qualification.

Several analytes did not meet the MS/MSD relative percent difference (RPD) requirement. Due to soils, by nature, not being homogenous, qualification was not required.

Field duplicate/sample results exhibited acceptable precision (RPD <20 water; <35 soil), where applicable. For soil analysis, sample weights varied and sample QL and MDLs were adjusted accordingly.

PCBs by SW-846 Method 8082A:

- Extractions: Method 3546 (soil)

The laboratory submitted data packages for review (SDG: WJ21078, WJ22078, WK02020 and WK10133) consisting only of the case narrative and quality control summary reports. This information was used in the data validation presented below.

Blank, laboratory control sample recovery (LCS), matrix spike and matrix spike duplicate recovery (MS/MSD) and surrogate recovery results, where applicable, were reviewed and laboratory control limits were used to evaluate the data, where applicable. Deviations from quality control criteria that were identified during the data review process are summarized below.

For the soil samples, Aroclor 1016 recovered low from the MS and/or MSD. Associated samples not detected at or above the detection limit or QL were qualified as "UJ" to note the QC deficiency.

Field duplicate/sample results exhibited acceptable precision (RPD<35 soil), where applicable. For soil analysis, sample weights varied and sample QL and MDLs were adjusted accordingly.

Inorganic Methods

Metals by SW-846 Method 6020B:

- Preparation: Method 3005A (groundwater) / Method 3050B (soil)

The laboratory submitted data packages for review (SDG: WJ21078, WJ22078, WK02020 and WK10133) consisting only of the case narrative and quality control summary reports. This information was used in the data validation presented below.

Blank, laboratory control sample recovery (LCS), matrix spike and matrix spike duplicate recovery (MS/MSD) and duplicate results, where applicable, were reviewed and laboratory control limits were used to evaluate the data. Deviations from specific quality control criteria that were identified during the data review process are summarized below.

For the groundwater samples, total aluminum recovered high in the MS/MSD. Total aluminum results that were not detected at the detection did not require qualification and results detected at or above the detection limit or QL were qualified as "J" to note the QC deficiency. Calcium, magnesium, potassium and sodium (all reported as total) recovered high from the MS/MSD; however, sample results for these analytes were greater than four times the spike add concentration and qualification was not required.

For the groundwater samples, total aluminum, total barium, total iron and total manganese were detected in the equipment blank; however, the sample results for these analytes were greater than four times the blank contamination and qualification was not required.

For the soil samples, copper was detected below the QL in the method blank. Associated sample results for copper that were detected at or above the detection limit or QL were considered blank influenced and were qualified as "B" to note blank contamination.

For the soil samples, the MS and/or MSD recovered high for barium, copper, lead and zinc. Detected results at or above the DL for these analytes were qualified as "J" to note the QC deficiency. Antimony recovered low from the MS and/or MSD. Antimony results that were detected at or below the detection limit were qualified as "UJ" and results that were detected at

or above the detection limit or QL were qualified as "J" to note the QC deficiency. The MS/MSD recovered outside criteria for aluminum, calcium, iron, magnesium, manganese, potassium and sodium; however, the sample results for these analytes were greater than four times the spike add concentration and data qualification was not required.

Several samples were analyzed in dilution due to high concentrations. The QL and MDLs were adjusted accordingly.

Field duplicate/sample results exhibited acceptable precision (RPD <20 water; <45 soil), where applicable, except as noted. Field duplicate/sample results for aluminum and iron (water) did not meet precision criteria and results were qualified as estimated "J" to note an RPD>20. For soil analysis, sample weights varied and sample QL and MDLs were adjusted accordingly.

Mercury by SW-846 Methods 7470A/7471B:

- Preparation: Method 7470A (groundwater) / Method 7471B (soil)

The laboratory submitted data packages for review (SDG: WJ21078, WJ22078, WK02020 and WK10133) consisting only of the case narrative and quality control summary reports. This information was used in the data validation presented below.

Blank, laboratory control sample recovery (LCS), matrix spike and matrix spike duplicate recovery (MS/MSD) and duplicate results, where applicable, were reviewed and laboratory control limits were used to evaluate the data. Deviations from quality control criteria were identified during the data review process are summarized below.

For the soil samples, mercury recovered low in the MS and/or MSD. Results not detected at or above the detection limit were qualified as "UJ" to note this QC deficiency. Results detected at or above the detection limit were qualified as "J" to note this QC deficiency.

Field duplicate/sample results exhibited acceptable precision (RPD <20 water; <35 soil), where applicable. For soil analysis, sample weights varied and sample QL and MDLs were adjusted accordingly.

Cyanide by SW-846 Method 9012B:

- Preparation: Method 9012B (groundwater and soil)

The laboratory submitted data packages for review (SDG: WJ21078, WJ22078, WK02020 and WK10133) consisting only of the case narrative and quality control summary reports. This information was used in the data validation presented below.

Blank, laboratory control sample recovery (LCS), matrix spike and matrix spike duplicate recovery (MS/MSD) and duplicate results, where applicable, were reviewed and laboratory control limits were used to evaluate the data. Deviations from quality control criteria were identified during the data review process are summarized below.

Field duplicate/sample results exhibited acceptable precision (RPD <20 water; <35 soil), where applicable. For soil analysis, sample weights varied and sample QL and MDLs were adjusted accordingly.

Comparison to Action Levels

Comparisons to action levels for detected constituents are presented on separate tables.

Reconciliation With User Requirements

Reconciliation with project goals as defined in the project specific SAP is discussed below.

Precision

Precision was evaluated using the RPD data obtained from the LCS/LCSD, MS/MSD and sample/field duplicate results, where applicable. The RPD were within acceptance criteria, unless noted above. See attached data validation report for sample locations and results qualified.

Accuracy

Accuracy was evaluated using the percent recovery obtained from the laboratory control sample (LCS), matrix spike, and matrix spike duplicate (MS/MSD) samples, where applicable. LCS and MS/MSD recoveries were within acceptance criteria, unless noted above. See attached data validation report tables for sample locations and results qualified.

Representativeness

Data collected at the site were accurate and precise, unless noted. Samples were collected using standardized procedures. Field quality control samples (trip blank, field duplicate) were submitted for each day of the sampling event. Samples were analyzed using standardized and accepted analytical methods using traceable standards to ensure that accurate and reproducible data were generated. Data from the site were considered representative.

Completeness

Completeness was evaluated by comparing the total number of valid data obtained from a measurement system compared to the amount that was expected to be obtained under normal conditions. Valid analytical data are results not qualified as rejected. The completeness for the data set is 100%.

Comparability

Comparability is defined as the degree of confidence that one data set can be compared to another data set. Data was generated using specific standard methods, reported in standard units and standard reporting formats. The comparability of the data collected as part of the site assessment meets project requirements.

Sensitivity

Due to limitations of analytical methods (i.e., instrument sensitivity) and budget constraints, laboratory quantitation or detection limits may be greater than the project screening levels. However, this should not hinder this assessment, as a comprehensive review of all analytical results across the site will help determine if further evaluation beyond the scope of this assessment may be required.

LIMITATIONS:

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Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

This Report has been prepared by:

________________________________ ____02/25/2022______

Kim Altizer, Project Environmental Scientist I Date:
2206 South Main Street, Blacksburg, Virginia 24060
540-552-0444, kaltizer@daa.com, www.daa.com

This Report has been subjected to technical and quality review by:

________________________________ ________________

Kathy Olsen, Project Environmental Scientist II Date:
2206 South Main Street, Blacksburg, Virginia 24060
540-552-0444, kolsen@daa.com, www.daa.com

Report of Analysis

Draper Aden Associates
2206 South Main Street
Blacksburg, VA 24060
Attention: Janet Frazier

Project Name: Former Intermet-Lynchburg Foundry Site Phase II ESA

Project Number: B12188B-10HM

Lot Number:**WJ21078**

Date Completed:12/06/2021

12/19/2021 7:22 PM
Approved and released by:
Project Manager II: **Cathy S. Dover**

The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

Case Narrative
Draper Aden Associates
Lot Number: WJ21078

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample. All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation:

Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, Fecal Coliform SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, Solid Chemical Material: TOC Walkley-Black.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

VOA 8260D

Internal standard response for the following sample exceeded the lower control limit: WJ21078-009 (B8-1). The sample was re-analyzed with concurring results. As such, the sample results may be biased high. The original set of data has been reported for Acetone, which did not pass CCV criteria in the second run. The original set of data failed above surrogate criteria for toluene-d8. Since surrogates pass in the second run, all compounds, not including acetone, have been reported from the re-analysis.

SVOA 8270E

Internal standard response for the following sample exceeded the lower control limit: WJ21078-010 (B8-2). The sample was re-analyzed @ 50X because of target hits with concurring results. As such, the sample results may be biased high.

Sample WJ21078-012 (B9-2) was diluted due to the nature of the sample matrix. The LOQ has been elevated to reflect the dilution. Also, the 2,4,6-Tribromophenol surrogate is marginally outside the upper control limit.

Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 10% of analytes to recover marginally outside criteria. The following analytes recovered marginally outside LCS/LCSD criteria: 3-Nitroaniline, 4-Nitroaniline, 4-Chloroanilin, Atrazine, and 4-chlor-3-methylphenol. Associated samples: WJ21078-001 (BMW1-1), WJ21078-002 (BMW1-2), WJ21078-003 (BMW2-1), WJ21078-004 (BMW2-2), WJ21078-006 (B6-2), WJ21078-007 (B7-1) and WJ21078-008 (B7-2).

Surrogate Phenol-d5 was outside the lower limit in the dilution analysis (10x to 50x) for samples: WJ21078-001 (BMW1-1), WJ21078-002 (BMW1-2), WJ21078-003 (BMW2-1), WJ21078-005 (B6-2), WJ21078-007 (B7-1), WJ21078-008 (B7-2), WJ21078-009 (B8-1) and WJ21078-010 (B8-2).

The method blank associated with batch 20851 had Di-n-butylphthalate detected at a concentration that was above the DL but below the LOQ. Also, surrogate 2,4,6-Tribromophenol was outside the upper limit. All samples associated with this method blank are non-detect for Di-n-butylphthalate.

Cyanide 9012B
The MSD for batch 20909 and parent sample WJ21078-001 (BMW1-1), recovered marginally outside the lower limit. The associated LCS and MS passed acceptance criteria.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Sample Summary

Draper Aden Associates

Lot Number: WJ21078

Project Name: Former Intermet-Lynchburg Foundry Site Phase II ESA

Project Number: B12188B-10HM

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	BMW1-1	Solid	10/20/2021 1150	10/21/2021
002	BMW1-2	Solid	10/20/2021 1150	10/21/2021
003	BMW2-1	Solid	10/20/2021 1315	10/21/2021
004	BMW2-2	Solid	10/20/2021 1320	10/21/2021
005	B6-1	Solid	10/20/2021 1625	10/21/2021
006	B6-2	Solid	10/20/2021 1630	10/21/2021
007	B7-1	Solid	10/20/2021 1420	10/21/2021
008	B7-2	Solid	10/20/2021 1425	10/21/2021
009	B8-1	Solid	10/20/2021 1500	10/21/2021
010	B8-2	Solid	10/20/2021 1505	10/21/2021
011	B9-1	Solid	10/20/2021 1540	10/21/2021
012	B9-2	Solid	10/20/2021 1545	10/21/2021
013	Trip Blank 1	Aqueous	10/20/2021	10/21/2021
014	Trip Blank 2	Aqueous	10/20/2021	

(14 samples)

Inorganic non-metals

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-001**	
Description: **BMW1-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **75.0**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/02/2021 1707	AAB	11/02/2021 1118	20909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	**57-12-5**	**9012B**	**120**	**S**	**0.67**	**0.27**	**mg/kg**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-001**	
Description: **BMW1-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **75.0**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1431	JM1		20009	4.24

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.031	U	0.031	0.013	mg/Kg	1
Benzene	71-43-2	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Bromoform	75-25-2	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0079	U	0.0079	0.0047	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.031	U	0.031	0.0063	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Chloroform	67-66-3	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0079	U	0.0079	0.0047	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0079	U	0.0079	0.0047	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Ethylbenzene	**100-41-4**	**8260D**	**0.0077**	**J**	**0.0079**	**0.0031**	**mg/Kg**	**1**
2-Hexanone	591-78-6	8260D	0.016	U	0.016	0.0063	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.016	U	0.016	0.0063	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Styrene	100-42-5	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Toluene	108-88-3	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-001**	
Description: **BMW1-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **75.0**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1431	JM1		20009	4.24

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0079	U	0.0079	0.0031	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0079	U	0.0079	0.0047	mg/Kg	1
m+p - Xylenes	**179601-23-1**	**8260D**	**0.045**		**0.0079**	**0.0031**	**mg/Kg**	**1**
o - Xylenes	**95-47-6**	**8260D**	**0.017**		**0.0079**	**0.0031**	**mg/Kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		88	47-138
1,2-Dichloroethane-d4		86	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-001**	
Description: **BMW1-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **75.0**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/02/2021 1825	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.036	UQ	0.036	0.011	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.036	UQ	0.036	0.013	mg/Kg	1
Acetophenone	98-86-2	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
Anthracene	120-12-7	8270E	0.036	UQ	0.036	0.0068	mg/Kg	1
Atrazine	1912-24-9	8270E	0.17	UQL	0.17	0.066	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
Benzo(a)anthracene	**56-55-3**	**8270E**	**0.024**	**JQD**	**0.036**	**0.0078**	**mg/Kg**	**1**
Benzo(a)pyrene	**50-32-8**	**8270E**	**0.030**	**JQD**	**0.036**	**0.0088**	**mg/Kg**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270E**	**0.044**	**QD**	**0.036**	**0.0066**	**mg/Kg**	**1**
Benzo(g,h,i)perylene	191-24-2	8270E	0.036	UQ	0.036	0.0086	mg/Kg	1
Benzo(k)fluoranthene	**207-08-9**	**8270E**	**0.013**	**JQD**	**0.036**	**0.0064**	**mg/Kg**	**1**
1,1'-Biphenyl	92-52-4	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
Caprolactam	105-60-2	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
Carbazole	86-74-8	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.17	UQL	0.17	0.066	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.17	UQL	0.17	0.066	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
Chrysene	**218-01-9**	**8270E**	**0.028**	**JQD**	**0.036**	**0.0060**	**mg/Kg**	**1**
Dibenzo(a,h)anthracene	53-70-3	8270E	0.036	UQ	0.036	0.0068	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.17	UQ	0.17	0.098	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.89	UQ	0.89	0.33	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.89	UQ	0.89	0.33	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.36	UQ	0.36	0.13	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.36	UQ	0.36	0.13	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.44	UQ	0.44	0.13	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.89	UQ	0.89	0.33	mg/Kg	1
Fluoranthene	**206-44-0**	**8270E**	**0.042**	**QD**	**0.036**	**0.0056**	**mg/Kg**	**1**
Fluorene	86-73-7	8270E	0.036	UQ	0.036	0.0076	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.17	UQ	0.17	0.066	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-001**	
Description: **BMW1-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **75.0**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/02/2021 1825	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.89	UQ	0.89	0.33	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	**193-39-5**	**8270E**	**0.018**	**JQD**	**0.036**	**0.013**	**mg/Kg**	**1**
Isophorone	78-59-1	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.036	UQ	0.036	0.013	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.36	UQ	0.36	0.13	mg/Kg	1
Naphthalene	91-20-3	8270E	0.036	UQ	0.036	0.013	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.36	UQ	0.36	0.13	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.36	UQL	0.36	0.13	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.36	UQL	0.36	0.13	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.36	UQ	0.36	0.13	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.89	UQ	0.89	0.33	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.89	UQ	0.89	0.33	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.036	UQ	0.036	0.0096	mg/Kg	1
Phenol	108-95-2	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
Pyrene	**129-00-0**	**8270E**	**0.032**	**JQD**	**0.036**	**0.0066**	**mg/Kg**	**1**
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.44	UQ	0.44	0.13	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.89	UQ	0.89	0.13	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.17	UQ	0.17	0.066	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.17	UQ	0.17	0.066	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		77	33-102
2-Fluorophenol		39	35-115
Nitrobenzene-d5		93	22-109
Phenol-d5	N	8.8	33-122
Terphenyl-d14		84	41-120
2,4,6-Tribromophenol		37	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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PCBs by GC

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-001**	
Description: **BMW1-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **75.0**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	10/27/2021 1237	CMF	10/25/2021 1657	20067

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	0.013	U	0.013	0.0036	mg/Kg	1
Aroclor 1221	11104-28-2	8082A	0.013	U	0.013	0.0031	mg/Kg	1
Aroclor 1232	11141-16-5	8082A	0.013	U	0.013	0.0028	mg/Kg	1
Aroclor 1242	53469-21-9	8082A	0.013	U	0.013	0.0021	mg/Kg	1
Aroclor 1248	12672-29-6	8082A	0.013	U	0.013	0.0054	mg/Kg	1
Aroclor 1254	11097-69-1	8082A	0.013	U	0.013	0.0033	mg/Kg	1
Aroclor 1260	11096-82-5	8082A	0.013	U	0.013	0.0032	mg/Kg	1
Aroclor 1262	37324-23-5	8082A	0.013	U	0.013	0.0028	mg/Kg	1
Aroclor 1268	11100-14-4	8082A	0.013	U	0.013	0.0019	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		60	41-132
Tetrachloro-m-xylene		54	35-106

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-001**	
Description: **BMW1-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **75.0**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/04/2021 0639	BPK	10/27/2021 0915	20128
1	7471B	7471B	1	11/02/2021 1320	CMS2	11/01/2021 1211	20140
2	3050B	6020B	10	11/04/2021 1021	BPK	10/27/2021 0915	20128

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	**7429-90-5**	**6020B**	**33000**	**D**	**120**	**31**	**mg/kg**	**2**
Antimony	7440-36-0	6020B	0.61	U	0.61	0.25	mg/kg	1
Arsenic	**7440-38-2**	**6020B**	**2.3**		**0.61**	**0.25**	**mg/kg**	**1**
Barium	**7440-39-3**	**6020B**	**150**	**D**	**15**	**3.8**	**mg/kg**	**2**
Beryllium	**7440-41-7**	**6020B**	**1.2**		**0.12**	**0.042**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6020B**	**0.084**	**J**	**0.16**	**0.031**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6020B**	**1600**		**120**	**37**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6020B**	**32**	**D**	**15**	**6.8**	**mg/kg**	**2**
Cobalt	**7440-48-4**	**6020B**	**50**	**D**	**15**	**3.7**	**mg/kg**	**2**
Copper	**7440-50-8**	**6020B**	**120**	**D**	**15**	**4.0**	**mg/kg**	**2**
Iron	**7439-89-6**	**6020B**	**85000**	**D**	**160**	**31**	**mg/kg**	**2**
Lead	**7439-92-1**	**6020B**	**17**		**0.31**	**0.083**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6020B**	**7700**	**D**	**1200**	**310**	**mg/kg**	**2**
Manganese	**7439-96-5**	**6020B**	**750**	**D**	**15**	**4.4**	**mg/kg**	**2**
Mercury	**7439-97-6**	**7471B**	**0.082**	**J**	**0.10**	**0.025**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6020B**	**22**	**D**	**15**	**3.7**	**mg/kg**	**2**
Potassium	**7440-09-7**	**6020B**	**2600**	**D**	**1200**	**310**	**mg/kg**	**2**
Selenium	**7782-49-2**	**6020B**	**3.9**		**1.5**	**0.58**	**mg/kg**	**1**
Silver	7440-22-4	6020B	0.31	U	0.31	0.074	mg/kg	1
Sodium	**7440-23-5**	**6020B**	**91**	**J**	**120**	**45**	**mg/kg**	**1**
Thallium	**7440-28-0**	**6020B**	**0.18**		**0.15**	**0.037**	**mg/kg**	**1**
Vanadium	**7440-62-2**	**6020B**	**290**	**D**	**15**	**3.1**	**mg/kg**	**2**
Zinc	**7440-66-6**	**6020B**	**120**	**D**	**31**	**6.1**	**mg/kg**	**2**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-002**	
Description: **BMW1-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **89.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/02/2021 1711	AAB	11/02/2021 1118	20909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.56	U	0.56	0.22	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-002**	
Description: **BMW1-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **89.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1454	JM1		20009	4.76

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.024	U	0.024	0.0094	mg/Kg	1
Benzene	71-43-2	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Bromoform	75-25-2	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0059	U	0.0059	0.0035	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.024	U	0.024	0.0047	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Chloroform	67-66-3	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0059	U	0.0059	0.0035	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0059	U	0.0059	0.0035	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.012	U	0.012	0.0047	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.012	U	0.012	0.0047	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Styrene	100-42-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Toluene	108-88-3	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
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H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-002**	
Description: **BMW1-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **89.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1454	JM1		20009	4.76

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0059	U	0.0059	0.0035	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		83	47-138
1,2-Dichloroethane-d4		87	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-002**	
Description: **BMW1-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **89.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/02/2021 1849	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.030	UQ	0.030	0.0093	mg/Kg	1
Acenaphthylene	**208-96-8**	**8270E**	**0.032**	**QD**	**0.030**	**0.011**	**mg/Kg**	**1**
Acetophenone	98-86-2	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
Anthracene	**120-12-7**	**8270E**	**0.11**	**QD**	**0.030**	**0.0057**	**mg/Kg**	**1**
Atrazine	1912-24-9	8270E	0.15	UQL	0.15	0.056	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
Benzo(a)anthracene	**56-55-3**	**8270E**	**0.44**	**QD**	**0.030**	**0.0066**	**mg/Kg**	**1**
Benzo(a)pyrene	**50-32-8**	**8270E**	**0.46**	**QD**	**0.030**	**0.0074**	**mg/Kg**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270E**	**0.53**	**QD**	**0.030**	**0.0056**	**mg/Kg**	**1**
Benzo(g,h,i)perylene	**191-24-2**	**8270E**	**0.17**	**QD**	**0.030**	**0.0073**	**mg/Kg**	**1**
Benzo(k)fluoranthene	**207-08-9**	**8270E**	**0.23**	**QD**	**0.030**	**0.0054**	**mg/Kg**	**1**
1,1'-Biphenyl	92-52-4	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
Caprolactam	105-60-2	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
Carbazole	86-74-8	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.15	UQL	0.15	0.056	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.15	UQL	0.15	0.056	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
Chrysene	**218-01-9**	**8270E**	**0.44**	**QD**	**0.030**	**0.0050**	**mg/Kg**	**1**
Dibenzo(a,h)anthracene	53-70-3	8270E	0.030	UQ	0.030	0.0057	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.15	UQ	0.15	0.083	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.75	UQ	0.75	0.28	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.75	UQ	0.75	0.28	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.30	UQ	0.30	0.11	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.30	UQ	0.30	0.11	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.37	UQ	0.37	0.11	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.75	UQ	0.75	0.28	mg/Kg	1
Fluoranthene	**206-44-0**	**8270E**	**0.88**	**QD**	**0.030**	**0.0047**	**mg/Kg**	**1**
Fluorene	86-73-7	8270E	0.030	UQ	0.030	0.0064	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.15	UQ	0.15	0.056	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-002**	
Description: **BMW1-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **89.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/02/2021 1849	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.75	UQ	0.75	0.28	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	**193-39-5**	**8270E**	**0.18**	**QD**	**0.030**	**0.011**	**mg/Kg**	**1**
Isophorone	78-59-1	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
2-Methylnaphthalene	**91-57-6**	**8270E**	**0.016**	**JQD**	**0.030**	**0.011**	**mg/Kg**	**1**
2-Methylphenol	95-48-7	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.30	UQ	0.30	0.11	mg/Kg	1
Naphthalene	**91-20-3**	**8270E**	**0.035**	**QD**	**0.030**	**0.011**	**mg/Kg**	**1**
2-Nitroaniline	88-74-4	8270E	0.30	UQ	0.30	0.11	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.30	UQL	0.30	0.11	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.30	UQL	0.30	0.11	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.30	UQ	0.30	0.11	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.75	UQ	0.75	0.28	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.75	UQ	0.75	0.28	mg/Kg	1
Phenanthrene	**85-01-8**	**8270E**	**0.26**	**QD**	**0.030**	**0.0081**	**mg/Kg**	**1**
Phenol	108-95-2	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
Pyrene	**129-00-0**	**8270E**	**0.61**	**QD**	**0.030**	**0.0056**	**mg/Kg**	**1**
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.37	UQ	0.37	0.11	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.75	UQ	0.75	0.11	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.15	UQ	0.15	0.056	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.15	UQ	0.15	0.056	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		74	33-102
2-Fluorophenol	N	31	35-115
Nitrobenzene-d5		86	22-109
Phenol-d5	N	13	33-122
Terphenyl-d14		86	41-120
2,4,6-Tribromophenol	N	28	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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PCBs by GC

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-002**	
Description: **BMW1-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **89.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	10/27/2021 1251	CMF	10/25/2021 1657	20067

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	0.011	U	0.011	0.0030	mg/Kg	1
Aroclor 1221	11104-28-2	8082A	0.011	U	0.011	0.0026	mg/Kg	1
Aroclor 1232	11141-16-5	8082A	0.011	U	0.011	0.0023	mg/Kg	1
Aroclor 1242	53469-21-9	8082A	0.011	U	0.011	0.0017	mg/Kg	1
Aroclor 1248	12672-29-6	8082A	0.011	U	0.011	0.0045	mg/Kg	1
Aroclor 1254	11097-69-1	8082A	0.011	U	0.011	0.0028	mg/Kg	1
Aroclor 1260	11096-82-5	8082A	0.011	U	0.011	0.0027	mg/Kg	1
Aroclor 1262	37324-23-5	8082A	0.011	U	0.011	0.0023	mg/Kg	1
Aroclor 1268	11100-14-4	8082A	0.011	U	0.011	0.0016	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		66	41-132
Tetrachloro-m-xylene		61	35-106

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-002**	
Description: **BMW1-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1150**	Project Name: **Former Intermet-Lynchburg**	% Solids: **89.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/04/2021 0647	BPK	10/27/2021 0915	20128
1	7471B	7471B	1	11/02/2021 1323	CMS2	11/01/2021 1211	20140
2	3050B	6020B	10	11/04/2021 1052	BPK	10/27/2021 0915	20128
3	3050B	6020B	100	11/04/2021 1410	BPK	10/27/2021 0915	20128
4	3050B	6020B	2000	11/05/2021 1348	BNW	10/27/2021 0915	20128

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	**7429-90-5**	**6020B**	**19000**	**D**	**99**	**25**	**mg/kg**	**2**
Antimony	**7440-36-0**	**6020B**	**0.41**	**J**	**0.49**	**0.20**	**mg/kg**	**1**
Arsenic	**7440-38-2**	**6020B**	**4.8**		**0.49**	**0.20**	**mg/kg**	**1**
Barium	**7440-39-3**	**6020B**	**380**	**D**	**12**	**3.1**	**mg/kg**	**2**
Beryllium	**7440-41-7**	**6020B**	**1.2**		**0.099**	**0.034**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6020B**	**0.060**	**J**	**0.13**	**0.025**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6020B**	**64000**	**D**	**990**	**300**	**mg/kg**	**2**
Chromium	**7440-47-3**	**6020B**	**41**		**1.2**	**0.55**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6020B**	**14**		**1.2**	**0.30**	**mg/kg**	**1**
Copper	**7440-50-8**	**6020B**	**13**		**1.2**	**0.32**	**mg/kg**	**1**
Iron	**7439-89-6**	**6020B**	**84000**	**D**	**1300**	**250**	**mg/kg**	**3**
Lead	**7439-92-1**	**6020B**	**25**		**0.25**	**0.067**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6020B**	**2500**		**99**	**25**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6020B**	**8200**	**D**	**2500**	**720**	**mg/kg**	**4**
Mercury	7439-97-6	7471B	0.083	U	0.083	0.020	mg/kg	1
Nickel	**7440-02-0**	**6020B**	**34**		**1.2**	**0.30**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6020B**	**4300**		**99**	**25**	**mg/kg**	**1**
Selenium	**7782-49-2**	**6020B**	**1.7**		**1.2**	**0.47**	**mg/kg**	**1**
Silver	7440-22-4	6020B	0.25	U	0.25	0.059	mg/kg	1
Sodium	**7440-23-5**	**6020B**	**540**		**99**	**36**	**mg/kg**	**1**
Thallium	**7440-28-0**	**6020B**	**0.22**		**0.12**	**0.030**	**mg/kg**	**1**
Vanadium	**7440-62-2**	**6020B**	**130**	**D**	**12**	**2.5**	**mg/kg**	**2**
Zinc	**7440-66-6**	**6020B**	**160**	**D**	**25**	**4.9**	**mg/kg**	**2**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-003**	
Description: **BMW2-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1315**	Project Name: **Former Intermet-Lynchburg**	% Solids: **87.5**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/02/2021 1712	AAB	11/02/2021 1118	20909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	**57-12-5**	**9012B**	**13**		**0.57**	**0.23**	**mg/kg**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-003**	
Description: **BMW2-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1315**	Project Name: **Former Intermet-Lynchburg**	% Solids: **87.5**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1517	JM1		20009	7.78

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.015	U	0.015	0.0059	mg/Kg	1
Benzene	71-43-2	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Bromoform	75-25-2	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0037	U	0.0037	0.0022	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.015	U	0.015	0.0029	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Chloroform	67-66-3	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0037	U	0.0037	0.0022	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0037	U	0.0037	0.0022	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.0073	U	0.0073	0.0029	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.0073	U	0.0073	0.0029	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Styrene	100-42-5	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Toluene	108-88-3	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-003**	
Description: **BMW2-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1315**	Project Name: **Former Intermet-Lynchburg**	% Solids: **87.5**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1517	JM1		20009	7.78

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0037	U	0.0037	0.0022	mg/Kg	1
m+p - Xylenes	**179601-23-1**	**8260D**	**0.0021**	**J**	**0.0037**	**0.0015**	**mg/Kg**	**1**
o - Xylenes	95-47-6	8260D	0.0037	U	0.0037	0.0015	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		89	53-142
Toluene-d8		95	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-003**	
Description: **BMW2-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1315**	Project Name: **Former Intermet-Lynchburg**	% Solids: **87.5**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/02/2021 1914	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	**83-32-9**	**8270E**	**0.031**	**QD**	**0.031**	**0.0094**	**mg/Kg**	**1**
Acenaphthylene	208-96-8	8270E	0.031	UQ	0.031	0.011	mg/Kg	1
Acetophenone	98-86-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Anthracene	**120-12-7**	**8270E**	**0.12**	**QD**	**0.031**	**0.0058**	**mg/Kg**	**1**
Atrazine	1912-24-9	8270E	0.15	UQL	0.15	0.057	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Benzo(a)anthracene	**56-55-3**	**8270E**	**0.57**	**QD**	**0.031**	**0.0067**	**mg/Kg**	**1**
Benzo(a)pyrene	**50-32-8**	**8270E**	**0.75**	**QD**	**0.031**	**0.0075**	**mg/Kg**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270E**	**0.87**	**QD**	**0.031**	**0.0057**	**mg/Kg**	**1**
Benzo(g,h,i)perylene	**191-24-2**	**8270E**	**0.37**	**QD**	**0.031**	**0.0074**	**mg/Kg**	**1**
Benzo(k)fluoranthene	**207-08-9**	**8270E**	**0.40**	**QD**	**0.031**	**0.0054**	**mg/Kg**	**1**
1,1'-Biphenyl	92-52-4	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Caprolactam	105-60-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Carbazole	**86-74-8**	**8270E**	**0.060**	**JQD**	**0.15**	**0.057**	**mg/Kg**	**1**
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.15	UQL	0.15	0.057	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.15	UQL	0.15	0.057	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Chrysene	**218-01-9**	**8270E**	**0.60**	**QD**	**0.031**	**0.0051**	**mg/Kg**	**1**
Dibenzo(a,h)anthracene	53-70-3	8270E	0.031	UQ	0.031	0.0058	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.15	UQ	0.15	0.084	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.76	UQ	0.76	0.28	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.76	UQ	0.76	0.28	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.31	UQ	0.31	0.11	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.31	UQ	0.31	0.11	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.37	UQ	0.37	0.11	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.76	UQ	0.76	0.28	mg/Kg	1
Fluoranthene	**206-44-0**	**8270E**	**1.0**	**QD**	**0.031**	**0.0048**	**mg/Kg**	**1**
Fluorene	**86-73-7**	**8270E**	**0.025**	**JQD**	**0.031**	**0.0065**	**mg/Kg**	**1**
Hexachlorobenzene	118-74-1	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.15	UQ	0.15	0.057	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-003**	
Description: **BMW2-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1315**	Project Name: **Former Intermet-Lynchburg**	% Solids: **87.5**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/02/2021 1914	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.76	UQ	0.76	0.28	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	**193-39-5**	**8270E**	**0.34**	**QD**	**0.031**	**0.011**	**mg/Kg**	**1**
Isophorone	78-59-1	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.031	UQ	0.031	0.011	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.31	UQ	0.31	0.11	mg/Kg	1
Naphthalene	91-20-3	8270E	0.031	UQ	0.031	0.011	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.31	UQ	0.31	0.11	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.31	UQL	0.31	0.11	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.31	UQL	0.31	0.11	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.31	UQ	0.31	0.11	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.76	UQ	0.76	0.28	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.76	UQ	0.76	0.28	mg/Kg	1
Phenanthrene	**85-01-8**	**8270E**	**0.36**	**QD**	**0.031**	**0.0082**	**mg/Kg**	**1**
Phenol	108-95-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Pyrene	**129-00-0**	**8270E**	**0.73**	**QD**	**0.031**	**0.0057**	**mg/Kg**	**1**
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.37	UQ	0.37	0.11	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.76	UQ	0.76	0.11	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		70	33-102
2-Fluorophenol	N	34	35-115
Nitrobenzene-d5		66	22-109
Phenol-d5	N	23	33-122
Terphenyl-d14		79	41-120
2,4,6-Tribromophenol		36	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-003**	
Description: **BMW2-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1315**	Project Name: **Former Intermet-Lynchburg**	% Solids: **87.5**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/04/2021 0654	BPK	10/27/2021 0915	20128
1	7471B	7471B	1	11/02/2021 1325	CMS2	11/01/2021 1211	20140
2	3050B	6020B	10	11/04/2021 1100	BPK	10/27/2021 0915	20128
3	3050B	6020B	100	11/04/2021 1418	BPK	10/27/2021 0915	20128

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	**7429-90-5**	**6020B**	**33000**	**D**	**100**	**26**	**mg/kg**	**2**
Antimony	7440-36-0	6020B	0.51	U	0.51	0.21	mg/kg	1
Arsenic	**7440-38-2**	**6020B**	**1.9**		**0.51**	**0.21**	**mg/kg**	**1**
Barium	**7440-39-3**	**6020B**	**280**	**D**	**13**	**3.2**	**mg/kg**	**2**
Beryllium	**7440-41-7**	**6020B**	**1.6**		**0.10**	**0.035**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6020B**	**0.067**	**J**	**0.13**	**0.026**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6020B**	**1000**		**100**	**31**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6020B**	**28**	**D**	**13**	**5.7**	**mg/kg**	**2**
Cobalt	**7440-48-4**	**6020B**	**59**	**D**	**13**	**3.1**	**mg/kg**	**2**
Copper	**7440-50-8**	**6020B**	**100**	**D**	**13**	**3.3**	**mg/kg**	**2**
Iron	**7439-89-6**	**6020B**	**100000**	**D**	**1300**	**260**	**mg/kg**	**3**
Lead	**7439-92-1**	**6020B**	**7.7**		**0.26**	**0.070**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6020B**	**13000**	**D**	**1000**	**260**	**mg/kg**	**2**
Manganese	**7439-96-5**	**6020B**	**1100**	**D**	**130**	**37**	**mg/kg**	**3**
Mercury	7439-97-6	7471B	0.082	U	0.082	0.020	mg/kg	1
Nickel	**7440-02-0**	**6020B**	**27**	**D**	**13**	**3.1**	**mg/kg**	**2**
Potassium	**7440-09-7**	**6020B**	**6200**	**D**	**1000**	**260**	**mg/kg**	**2**
Selenium	**7782-49-2**	**6020B**	**5.1**		**1.3**	**0.49**	**mg/kg**	**1**
Silver	7440-22-4	6020B	0.26	U	0.26	0.062	mg/kg	1
Sodium	**7440-23-5**	**6020B**	**81**	**J**	**100**	**38**	**mg/kg**	**1**
Thallium	**7440-28-0**	**6020B**	**0.19**		**0.13**	**0.031**	**mg/kg**	**1**
Vanadium	**7440-62-2**	**6020B**	**310**	**D**	**13**	**2.6**	**mg/kg**	**2**
Zinc	**7440-66-6**	**6020B**	**180**	**D**	**26**	**5.1**	**mg/kg**	**2**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-004**	
Description: **BMW2-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1320**	Project Name: **Former Intermet-Lynchburg**	% Solids: **96.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/02/2021 1715	AAB	11/02/2021 1118	20909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	**57-12-5**	**9012B**	**93**		**0.52**	**0.21**	**mg/kg**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-004**	
Description: **BMW2-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1320**	Project Name: **Former Intermet-Lynchburg**	% Solids: **96.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1540	JM1		20009	4.90

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.021	U	0.021	0.0085	mg/Kg	1
Benzene	71-43-2	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Bromoform	75-25-2	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0053	U	0.0053	0.0032	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.021	U	0.021	0.0042	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Chloroform	67-66-3	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0053	U	0.0053	0.0032	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0053	U	0.0053	0.0032	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.011	U	0.011	0.0042	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.011	U	0.011	0.0042	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Styrene	100-42-5	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Toluene	108-88-3	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-004**	
Description: **BMW2-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1320**	Project Name: **Former Intermet-Lynchburg**	% Solids: **96.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1540	JM1		20009	4.90

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0053	U	0.0053	0.0032	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0053	U	0.0053	0.0021	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		88	47-138
1,2-Dichloroethane-d4		83	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-004**	
Description: **BMW2-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1320**	Project Name: **Former Intermet-Lynchburg**	% Solids: **96.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/02/2021 1800	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.0028	U	0.0028	0.00086	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.0028	U	0.0028	0.00099	mg/Kg	1
Acetophenone	98-86-2	8270E	0.014	U	0.014	0.0052	mg/Kg	1
Anthracene	120-12-7	8270E	0.0028	U	0.0028	0.00053	mg/Kg	1
Atrazine	1912-24-9	8270E	0.014	UL	0.014	0.0052	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.014	U	0.014	0.0052	mg/Kg	1
Benzo(a)anthracene	**56-55-3**	**8270E**	**0.0041**		**0.0028**	**0.00061**	**mg/Kg**	**1**
Benzo(a)pyrene	**50-32-8**	**8270E**	**0.0048**		**0.0028**	**0.00069**	**mg/Kg**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270E**	**0.0058**		**0.0028**	**0.00052**	**mg/Kg**	**1**
Benzo(g,h,i)perylene	**191-24-2**	**8270E**	**0.0024**	**J**	**0.0028**	**0.00068**	**mg/Kg**	**1**
Benzo(k)fluoranthene	**207-08-9**	**8270E**	**0.0015**	**J**	**0.0028**	**0.00050**	**mg/Kg**	**1**
1,1'-Biphenyl	92-52-4	8270E	0.014	U	0.014	0.0052	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.014	U	0.014	0.0052	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.014	U	0.014	0.0052	mg/Kg	1
Caprolactam	105-60-2	8270E	0.014	U	0.014	0.0052	mg/Kg	1
Carbazole	86-74-8	8270E	0.014	U	0.014	0.0052	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.014	U	0.014	0.0052	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.014	UL	0.014	0.0052	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.014	UL	0.014	0.0052	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.014	U	0.014	0.0052	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.014	U	0.014	0.0052	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.014	U	0.014	0.0052	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.014	U	0.014	0.0052	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.014	U	0.014	0.0052	mg/Kg	1
Chrysene	**218-01-9**	**8270E**	**0.0036**		**0.0028**	**0.00047**	**mg/Kg**	**1**
Dibenzo(a,h)anthracene	53-70-3	8270E	0.0028	U	0.0028	0.00053	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.014	U	0.014	0.0052	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.014	U	0.014	0.0052	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.014	U	0.014	0.0052	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.014	U	0.014	0.0052	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.014	U	0.014	0.0077	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.014	U	0.014	0.0052	mg/Kg	1
Di-n-butyl phthalate	**84-74-2**	**8270E**	**0.020**		**0.014**	**0.0052**	**mg/Kg**	**1**
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.070	U	0.070	0.026	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.070	U	0.070	0.026	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.028	U	0.028	0.010	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.028	U	0.028	0.010	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.014	U	0.014	0.0052	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.034	U	0.034	0.010	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.070	U	0.070	0.026	mg/Kg	1
Fluoranthene	**206-44-0**	**8270E**	**0.0056**		**0.0028**	**0.00044**	**mg/Kg**	**1**
Fluorene	86-73-7	8270E	0.0028	U	0.0028	0.00059	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.014	U	0.014	0.0052	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.014	U	0.014	0.0052	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-004**	
Description: **BMW2-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1320**	Project Name: **Former Intermet-Lynchburg**	% Solids: **96.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/02/2021 1800	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.070	U	0.070	0.026	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.014	U	0.014	0.0052	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	**193-39-5**	**8270E**	**0.0023**	**J**	**0.0028**	**0.0010**	**mg/Kg**	**1**
Isophorone	78-59-1	8270E	0.014	U	0.014	0.0052	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.0028	U	0.0028	0.0010	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.014	U	0.014	0.0052	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.028	U	0.028	0.010	mg/Kg	1
Naphthalene	91-20-3	8270E	0.0028	U	0.0028	0.0010	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.028	U	0.028	0.010	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.028	UL	0.028	0.010	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.028	UL	0.028	0.010	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.014	U	0.014	0.0052	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.028	U	0.028	0.010	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.070	U	0.070	0.026	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.014	U	0.014	0.0052	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.014	U	0.014	0.0052	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.070	U	0.070	0.026	mg/Kg	1
Phenanthrene	**85-01-8**	**8270E**	**0.0023**	**J**	**0.0028**	**0.00075**	**mg/Kg**	**1**
Phenol	108-95-2	8270E	0.014	U	0.014	0.0052	mg/Kg	1
Pyrene	**129-00-0**	**8270E**	**0.0048**		**0.0028**	**0.00052**	**mg/Kg**	**1**
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.034	U	0.034	0.010	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.070	U	0.070	0.010	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.014	U	0.014	0.0052	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.014	U	0.014	0.0052	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		73	33-102
2-Fluorophenol		62	35-115
Nitrobenzene-d5		84	22-109
Phenol-d5		50	33-122
Terphenyl-d14		79	41-120
2,4,6-Tribromophenol		111	30-117

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ICP-MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-004**	
Description: **BMW2-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1320**	Project Name: **Former Intermet-Lynchburg**	% Solids: **96.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/04/2021 0702	BPK	10/27/2021 0915	20128
1	7471B	7471B	1	11/02/2021 1328	CMS2	11/01/2021 1211	20140
2	3050B	6020B	10	11/04/2021 1108	BPK	10/27/2021 0915	20128

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	**7429-90-5**	**6020B**	**13000**	**D**	**92**	**23**	**mg/kg**	**2**
Antimony	7440-36-0	6020B	0.46	U	0.46	0.18	mg/kg	1
Arsenic	**7440-38-2**	**6020B**	**1.7**		**0.46**	**0.18**	**mg/kg**	**1**
Barium	**7440-39-3**	**6020B**	**120**	**D**	**12**	**2.9**	**mg/kg**	**2**
Beryllium	**7440-41-7**	**6020B**	**0.35**		**0.092**	**0.031**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6020B**	**0.081**	**J**	**0.12**	**0.023**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6020B**	**2500**		**92**	**28**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6020B**	**10**		**1.2**	**0.51**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6020B**	**5.1**		**1.2**	**0.28**	**mg/kg**	**1**
Copper	**7440-50-8**	**6020B**	**10**		**1.2**	**0.30**	**mg/kg**	**1**
Iron	**7439-89-6**	**6020B**	**26000**	**D**	**120**	**23**	**mg/kg**	**2**
Lead	**7439-92-1**	**6020B**	**14**		**0.23**	**0.063**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6020B**	**10000**	**D**	**920**	**230**	**mg/kg**	**2**
Manganese	**7439-96-5**	**6020B**	**350**	**D**	**12**	**3.3**	**mg/kg**	**2**
Mercury	7439-97-6	7471B	0.079	U	0.079	0.019	mg/kg	1
Nickel	**7440-02-0**	**6020B**	**6.6**		**1.2**	**0.28**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6020B**	**11000**	**D**	**920**	**230**	**mg/kg**	**2**
Selenium	**7782-49-2**	**6020B**	**3.2**		**1.2**	**0.44**	**mg/kg**	**1**
Silver	7440-22-4	6020B	0.23	U	0.23	0.055	mg/kg	1
Sodium	**7440-23-5**	**6020B**	**120**		**92**	**34**	**mg/kg**	**1**
Thallium	**7440-28-0**	**6020B**	**0.61**		**0.12**	**0.028**	**mg/kg**	**1**
Vanadium	**7440-62-2**	**6020B**	**23**		**1.2**	**0.23**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6020B**	**120**	**D**	**23**	**4.6**	**mg/kg**	**2**

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Inorganic non-metals

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-005**	
Description: **B6-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1625**	Project Name: **Former Intermet-Lynchburg**	% Solids: **91.4**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/02/2021 1716	AAB	11/02/2021 1118	20909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	**57-12-5**	**9012B**	**41**		**0.55**	**0.22**	**mg/kg**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
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ICP-MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-005**	
Description: **B6-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1625**	Project Name: **Former Intermet-Lynchburg**	% Solids: **91.4**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/04/2021 0710	BPK	10/27/2021 0915	20128
1	7471B	7471B	1	11/02/2021 1331	CMS2	11/01/2021 1211	20140
2	3050B	6020B	10	11/04/2021 1116	BPK	10/27/2021 0915	20128
3	3050B	6020B	100	11/04/2021 1425	BPK	10/27/2021 0915	20128

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	**7429-90-5**	**6020B**	**18000**	**D**	**110**	**27**	**mg/kg**	**2**
Antimony	7440-36-0	6020B	0.53	U	0.53	0.21	mg/kg	1
Arsenic	**7440-38-2**	**6020B**	**1.9**		**0.53**	**0.21**	**mg/kg**	**1**
Barium	**7440-39-3**	**6020B**	**130**	**D**	**13**	**3.3**	**mg/kg**	**2**
Beryllium	**7440-41-7**	**6020B**	**0.69**		**0.11**	**0.036**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6020B**	**0.058**	**J**	**0.14**	**0.027**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6020B**	**120000**	**D**	**11000**	**3200**	**mg/kg**	**3**
Chromium	**7440-47-3**	**6020B**	**24**	**D**	**13**	**5.9**	**mg/kg**	**2**
Cobalt	**7440-48-4**	**6020B**	**24**	**D**	**13**	**3.2**	**mg/kg**	**2**
Copper	**7440-50-8**	**6020B**	**50**	**D**	**13**	**3.5**	**mg/kg**	**2**
Iron	**7439-89-6**	**6020B**	**44000**	**D**	**140**	**27**	**mg/kg**	**2**
Lead	**7439-92-1**	**6020B**	**7.4**		**0.27**	**0.072**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6020B**	**9600**	**D**	**1100**	**270**	**mg/kg**	**2**
Manganese	**7439-96-5**	**6020B**	**420**	**D**	**13**	**3.9**	**mg/kg**	**2**
Mercury	7439-97-6	7471B	0.083	U	0.083	0.020	mg/kg	1
Nickel	**7440-02-0**	**6020B**	**18**	**D**	**13**	**3.2**	**mg/kg**	**2**
Potassium	**7440-09-7**	**6020B**	**2700**	**D**	**1100**	**270**	**mg/kg**	**2**
Selenium	**7782-49-2**	**6020B**	**2.8**		**1.3**	**0.50**	**mg/kg**	**1**
Silver	**7440-22-4**	**6020B**	**0.22**	**J**	**0.27**	**0.064**	**mg/kg**	**1**
Sodium	**7440-23-5**	**6020B**	**290**		**110**	**39**	**mg/kg**	**1**
Thallium	**7440-28-0**	**6020B**	**0.11**	**J**	**0.13**	**0.032**	**mg/kg**	**1**
Vanadium	**7440-62-2**	**6020B**	**150**	**D**	**13**	**2.7**	**mg/kg**	**2**
Zinc	**7440-66-6**	**6020B**	**79**	**D**	**27**	**5.3**	**mg/kg**	**2**

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H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-006**	
Description: **B6-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1630**	Project Name: **Former Intermet-Lynchburg**	% Solids: **88.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/02/2021 1718	AAB	11/02/2021 1118	20909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.57	U	0.57	0.23	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-006**	
Description: **B6-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1630**	Project Name: **Former Intermet-Lynchburg**	% Solids: **88.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1603	JM1		20009	5.26

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.022	U	0.022	0.0086	mg/Kg	1
Benzene	71-43-2	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Bromoform	75-25-2	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0054	U	0.0054	0.0032	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.022	U	0.022	0.0043	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Chloroform	67-66-3	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0054	U	0.0054	0.0032	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0054	U	0.0054	0.0032	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.011	U	0.011	0.0043	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.011	U	0.011	0.0043	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Styrene	100-42-5	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Toluene	108-88-3	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-006**	
Description: **B6-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1630**	Project Name: **Former Intermet-Lynchburg**	% Solids: **88.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1603	JM1		20009	5.26

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0054	U	0.0054	0.0032	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0054	U	0.0054	0.0022	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		85	47-138
1,2-Dichloroethane-d4		86	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-006**	
Description: **B6-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1630**	Project Name: **Former Intermet-Lynchburg**	% Solids: **88.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/02/2021 1939	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.031	UQ	0.031	0.0094	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.031	UQ	0.031	0.011	mg/Kg	1
Acetophenone	98-86-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Anthracene	120-12-7	8270E	0.031	UQ	0.031	0.0058	mg/Kg	1
Atrazine	1912-24-9	8270E	0.15	UQL	0.15	0.057	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Benzo(a)anthracene	**56-55-3**	**8270E**	**0.029**	**JQD**	**0.031**	**0.0067**	**mg/Kg**	**1**
Benzo(a)pyrene	**50-32-8**	**8270E**	**0.034**	**QD**	**0.031**	**0.0075**	**mg/Kg**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270E**	**0.041**	**QD**	**0.031**	**0.0057**	**mg/Kg**	**1**
Benzo(g,h,i)perylene	191-24-2	8270E	0.031	UQ	0.031	0.0074	mg/Kg	1
Benzo(k)fluoranthene	**207-08-9**	**8270E**	**0.015**	**JQD**	**0.031**	**0.0054**	**mg/Kg**	**1**
1,1'-Biphenyl	92-52-4	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Caprolactam	105-60-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Carbazole	86-74-8	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.15	UQL	0.15	0.057	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.15	UQL	0.15	0.057	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Chrysene	**218-01-9**	**8270E**	**0.030**	**JQD**	**0.031**	**0.0051**	**mg/Kg**	**1**
Dibenzo(a,h)anthracene	53-70-3	8270E	0.031	UQ	0.031	0.0058	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.15	UQ	0.15	0.084	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.76	UQ	0.76	0.28	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.76	UQ	0.76	0.28	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.31	UQ	0.31	0.11	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.31	UQ	0.31	0.11	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.37	UQ	0.37	0.11	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.76	UQ	0.76	0.28	mg/Kg	1
Fluoranthene	**206-44-0**	**8270E**	**0.033**	**QD**	**0.031**	**0.0048**	**mg/Kg**	**1**
Fluorene	86-73-7	8270E	0.031	UQ	0.031	0.0065	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.15	UQ	0.15	0.057	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-006**	
Description: **B6-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1630**	Project Name: **Former Intermet-Lynchburg**	% Solids: **88.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/02/2021 1939	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.76	UQ	0.76	0.28	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.031	UQ	0.031	0.011	mg/Kg	1
Isophorone	78-59-1	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.031	UQ	0.031	0.011	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.31	UQ	0.31	0.11	mg/Kg	1
Naphthalene	91-20-3	8270E	0.031	UQ	0.031	0.011	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.31	UQ	0.31	0.11	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.31	UQL	0.31	0.11	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.31	UQL	0.31	0.11	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.31	UQ	0.31	0.11	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.76	UQ	0.76	0.28	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.76	UQ	0.76	0.28	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.031	UQ	0.031	0.0081	mg/Kg	1
Phenol	108-95-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
Pyrene	**129-00-0**	**8270E**	**0.024**	**JQD**	**0.031**	**0.0057**	**mg/Kg**	**1**
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.37	UQ	0.37	0.11	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.76	UQ	0.76	0.11	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.15	UQ	0.15	0.057	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.15	UQ	0.15	0.057	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		62	33-102
2-Fluorophenol		37	35-115
Nitrobenzene-d5		72	22-109
Phenol-d5	N	14	33-122
Terphenyl-d14		71	41-120
2,4,6-Tribromophenol		43	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-006**	
Description: **B6-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1630**	Project Name: **Former Intermet-Lynchburg**	% Solids: **88.1**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/04/2021 0718	BPK	10/27/2021 0915	20128
1	7471B	7471B	1	11/02/2021 1339	CMS2	11/01/2021 1211	20140
2	3050B	6020B	10	11/04/2021 1123	BPK	10/27/2021 0915	20128

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	**7429-90-5**	**6020B**	**7800**		**11**	**2.7**	**mg/kg**	**1**
Antimony	7440-36-0	6020B	0.53	U	0.53	0.21	mg/kg	1
Arsenic	**7440-38-2**	**6020B**	**3.4**		**0.53**	**0.21**	**mg/kg**	**1**
Barium	**7440-39-3**	**6020B**	**170**	**D**	**13**	**3.3**	**mg/kg**	**2**
Beryllium	**7440-41-7**	**6020B**	**0.47**		**0.11**	**0.036**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6020B**	**0.10**	**J**	**0.14**	**0.027**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6020B**	**1700**		**110**	**32**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6020B**	**12**		**1.3**	**0.59**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6020B**	**6.2**		**1.3**	**0.32**	**mg/kg**	**1**
Copper	**7440-50-8**	**6020B**	**25**		**1.3**	**0.35**	**mg/kg**	**1**
Iron	**7439-89-6**	**6020B**	**19000**	**D**	**140**	**27**	**mg/kg**	**2**
Lead	**7439-92-1**	**6020B**	**49**		**0.27**	**0.073**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6020B**	**1600**		**110**	**27**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6020B**	**230**	**D**	**13**	**3.9**	**mg/kg**	**2**
Mercury	**7439-97-6**	**7471B**	**0.064**	**J**	**0.082**	**0.020**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6020B**	**11**		**1.3**	**0.32**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6020B**	**1600**		**110**	**27**	**mg/kg**	**1**
Selenium	**7782-49-2**	**6020B**	**1.6**		**1.3**	**0.51**	**mg/kg**	**1**
Silver	7440-22-4	6020B	0.27	U	0.27	0.064	mg/kg	1
Sodium	**7440-23-5**	**6020B**	**49**	**J**	**110**	**39**	**mg/kg**	**1**
Thallium	**7440-28-0**	**6020B**	**0.14**		**0.13**	**0.032**	**mg/kg**	**1**
Vanadium	**7440-62-2**	**6020B**	**20**		**1.3**	**0.27**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6020B**	**49**		**2.7**	**0.53**	**mg/kg**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-007**	
Description: **B7-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1420**	Project Name: **Former Intermet-Lynchburg**	% Solids: **95.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/02/2021 1719	AAB	11/02/2021 1118	20909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.52	U	0.52	0.21	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-007**	
Description: **B7-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1420**	Project Name: **Former Intermet-Lynchburg**	% Solids: **95.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/02/2021 2004	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.028	UQ	0.028	0.0085	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.028	UQ	0.028	0.0097	mg/Kg	1
Acetophenone	98-86-2	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
Anthracene	**120-12-7**	**8270E**	**0.018**	**JQD**	**0.028**	**0.0052**	**mg/Kg**	**1**
Atrazine	1912-24-9	8270E	0.13	UQL	0.13	0.051	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
Benzo(a)anthracene	**56-55-3**	**8270E**	**0.068**	**QD**	**0.028**	**0.0060**	**mg/Kg**	**1**
Benzo(a)pyrene	**50-32-8**	**8270E**	**0.11**	**QD**	**0.028**	**0.0068**	**mg/Kg**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270E**	**0.15**	**QD**	**0.028**	**0.0051**	**mg/Kg**	**1**
Benzo(g,h,i)perylene	**191-24-2**	**8270E**	**0.078**	**QD**	**0.028**	**0.0067**	**mg/Kg**	**1**
Benzo(k)fluoranthene	**207-08-9**	**8270E**	**0.058**	**QD**	**0.028**	**0.0049**	**mg/Kg**	**1**
1,1'-Biphenyl	92-52-4	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
Caprolactam	105-60-2	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
Carbazole	86-74-8	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.13	UQL	0.13	0.051	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.13	UQL	0.13	0.051	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
Chrysene	**218-01-9**	**8270E**	**0.075**	**QD**	**0.028**	**0.0046**	**mg/Kg**	**1**
Dibenzo(a,h)anthracene	53-70-3	8270E	0.028	UQ	0.028	0.0052	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.13	UQ	0.13	0.076	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.69	UQ	0.69	0.26	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.69	UQ	0.69	0.26	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.28	UQ	0.28	0.10	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.28	UQ	0.28	0.10	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.34	UQ	0.34	0.10	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.69	UQ	0.69	0.26	mg/Kg	1
Fluoranthene	**206-44-0**	**8270E**	**0.13**	**QD**	**0.028**	**0.0043**	**mg/Kg**	**1**
Fluorene	86-73-7	8270E	0.028	UQ	0.028	0.0058	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.13	UQ	0.13	0.051	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-007**	
Description: **B7-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1420**	Project Name: **Former Intermet-Lynchburg**	% Solids: **95.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/02/2021 2004	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.69	UQ	0.69	0.26	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	**193-39-5**	**8270E**	**0.070**	**QD**	**0.028**	**0.010**	**mg/Kg**	**1**
Isophorone	78-59-1	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
2-Methylnaphthalene	**91-57-6**	**8270E**	**0.025**	**JQD**	**0.028**	**0.010**	**mg/Kg**	**1**
2-Methylphenol	95-48-7	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.28	UQ	0.28	0.10	mg/Kg	1
Naphthalene	91-20-3	8270E	0.028	UQ	0.028	0.0099	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.28	UQ	0.28	0.10	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.28	UQL	0.28	0.10	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.28	UQL	0.28	0.10	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.28	UQ	0.28	0.10	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.69	UQ	0.69	0.26	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.69	UQ	0.69	0.26	mg/Kg	1
Phenanthrene	**85-01-8**	**8270E**	**0.14**	**QD**	**0.028**	**0.0074**	**mg/Kg**	**1**
Phenol	108-95-2	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
Pyrene	**129-00-0**	**8270E**	**0.11**	**QD**	**0.028**	**0.0051**	**mg/Kg**	**1**
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.34	UQ	0.34	0.10	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.69	UQ	0.69	0.10	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.13	UQ	0.13	0.051	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.13	UQ	0.13	0.051	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		90	33-102
2-Fluorophenol	N	0.52	35-115
Nitrobenzene-d5		90	22-109
Phenol-d5	N	0.77	33-122
Terphenyl-d14		105	41-120
2,4,6-Tribromophenol	N	0.00	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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PCBs by GC

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-007**	
Description: **B7-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1420**	Project Name: **Former Intermet-Lynchburg**	% Solids: **95.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	10/27/2021 1304	CMF	10/25/2021 1657	20067

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	0.010	U	0.010	0.0028	mg/Kg	1
Aroclor 1221	11104-28-2	8082A	0.010	U	0.010	0.0024	mg/Kg	1
Aroclor 1232	11141-16-5	8082A	0.010	U	0.010	0.0022	mg/Kg	1
Aroclor 1242	53469-21-9	8082A	0.010	U	0.010	0.0016	mg/Kg	1
Aroclor 1248	12672-29-6	8082A	0.010	U	0.010	0.0042	mg/Kg	1
Aroclor 1254	11097-69-1	8082A	0.010	U	0.010	0.0026	mg/Kg	1
Aroclor 1260	11096-82-5	8082A	0.010	U	0.010	0.0025	mg/Kg	1
Aroclor 1262	37324-23-5	8082A	0.010	U	0.010	0.0022	mg/Kg	1
Aroclor 1268	11100-14-4	8082A	0.010	U	0.010	0.0015	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		62	41-132
Tetrachloro-m-xylene		48	35-106

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-007**	
Description: **B7-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1420**	Project Name: **Former Intermet-Lynchburg**	% Solids: **95.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/04/2021 0726	BPK	10/27/2021 0915	20128
1	7471B	7471B	1	11/02/2021 1347	CMS2	11/01/2021 1211	20140
2	3050B	6020B	10	11/04/2021 1131	BPK	10/27/2021 0915	20128
3	3050B	6020B	100	11/04/2021 1455	BPK	10/27/2021 0915	20128

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	**7429-90-5**	**6020B**	**11000**	**D**	**96**	**24**	**mg/kg**	**2**
Antimony	**7440-36-0**	**6020B**	**0.42**	**J**	**0.48**	**0.19**	**mg/kg**	**1**
Arsenic	**7440-38-2**	**6020B**	**7.7**		**0.48**	**0.19**	**mg/kg**	**1**
Barium	**7440-39-3**	**6020B**	**71**		**1.2**	**0.30**	**mg/kg**	**1**
Beryllium	**7440-41-7**	**6020B**	**0.35**		**0.096**	**0.033**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6020B**	**0.066**	**J**	**0.12**	**0.024**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6020B**	**130000**	**D**	**9600**	**2900**	**mg/kg**	**3**
Chromium	**7440-47-3**	**6020B**	**210**	**D**	**12**	**5.3**	**mg/kg**	**2**
Cobalt	**7440-48-4**	**6020B**	**9.3**		**1.2**	**0.29**	**mg/kg**	**1**
Copper	**7440-50-8**	**6020B**	**57**		**1.2**	**0.31**	**mg/kg**	**1**
Iron	**7439-89-6**	**6020B**	**78000**	**D**	**1200**	**240**	**mg/kg**	**3**
Lead	**7439-92-1**	**6020B**	**6.2**		**0.24**	**0.065**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6020B**	**6900**		**96**	**24**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6020B**	**850**	**D**	**120**	**35**	**mg/kg**	**3**
Mercury	7439-97-6	7471B	0.078	U	0.078	0.019	mg/kg	1
Nickel	**7440-02-0**	**6020B**	**130**	**D**	**12**	**2.9**	**mg/kg**	**2**
Potassium	**7440-09-7**	**6020B**	**1900**		**96**	**24**	**mg/kg**	**1**
Selenium	**7782-49-2**	**6020B**	**1.7**		**1.2**	**0.45**	**mg/kg**	**1**
Silver	**7440-22-4**	**6020B**	**0.64**		**0.24**	**0.058**	**mg/kg**	**1**
Sodium	**7440-23-5**	**6020B**	**290**		**96**	**35**	**mg/kg**	**1**
Thallium	**7440-28-0**	**6020B**	**0.083**	**J**	**0.12**	**0.029**	**mg/kg**	**1**
Vanadium	**7440-62-2**	**6020B**	**42**		**1.2**	**0.24**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6020B**	**23**		**2.4**	**0.48**	**mg/kg**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-008**	
Description: **B7-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1425**	Project Name: **Former Intermet-Lynchburg**	% Solids: **91.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/02/2021 1720	AAB	11/02/2021 1118	20909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	**57-12-5**	**9012B**	**59**		**0.55**	**0.22**	**mg/kg**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-008**	
Description: **B7-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1425**	Project Name: **Former Intermet-Lynchburg**	% Solids: **91.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1626	JM1		20009	3.89

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.028	U	0.028	0.011	mg/Kg	1
Benzene	71-43-2	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Bromoform	75-25-2	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0070	U	0.0070	0.0042	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.028	U	0.028	0.0056	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Chloroform	67-66-3	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0070	U	0.0070	0.0042	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0070	U	0.0070	0.0042	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.014	U	0.014	0.0056	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.014	U	0.014	0.0056	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Styrene	100-42-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Toluene	108-88-3	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-008**	
Description: **B7-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1425**	Project Name: **Former Intermet-Lynchburg**	% Solids: **91.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1626	JM1		20009	3.89

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0070	U	0.0070	0.0042	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		83	47-138
1,2-Dichloroethane-d4		90	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-008**	
Description: **B7-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1425**	Project Name: **Former Intermet-Lynchburg**	% Solids: **91.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/02/2021 2028	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.029	UQ	0.029	0.0089	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.029	UQ	0.029	0.010	mg/Kg	1
Acetophenone	98-86-2	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
Anthracene	120-12-7	8270E	0.029	UQ	0.029	0.0055	mg/Kg	1
Atrazine	1912-24-9	8270E	0.14	UQL	0.14	0.054	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
Benzo(a)anthracene	**56-55-3**	**8270E**	**0.040**	**QD**	**0.029**	**0.0063**	**mg/Kg**	**1**
Benzo(a)pyrene	**50-32-8**	**8270E**	**0.042**	**QD**	**0.029**	**0.0071**	**mg/Kg**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270E**	**0.073**	**QD**	**0.029**	**0.0054**	**mg/Kg**	**1**
Benzo(g,h,i)perylene	**191-24-2**	**8270E**	**0.034**	**QSD**	**0.029**	**0.0070**	**mg/Kg**	**1**
Benzo(k)fluoranthene	**207-08-9**	**8270E**	**0.023**	**JQD**	**0.029**	**0.0051**	**mg/Kg**	**1**
1,1'-Biphenyl	92-52-4	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
Caprolactam	105-60-2	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
Carbazole	86-74-8	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.14	UQLS	0.14	0.054	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.14	UQLS	0.14	0.054	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
Chrysene	**218-01-9**	**8270E**	**0.042**	**QD**	**0.029**	**0.0048**	**mg/Kg**	**1**
Dibenzo(a,h)anthracene	53-70-3	8270E	0.029	UQ	0.029	0.0055	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.14	UQS	0.14	0.054	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.14	UQ	0.14	0.079	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.14	UQS	0.14	0.054	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.72	UQS	0.72	0.27	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.72	UQS	0.72	0.27	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.29	UQS	0.29	0.11	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.29	UQS	0.29	0.11	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.14	UQS	0.14	0.054	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.35	UQ	0.35	0.11	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.72	UQ	0.72	0.27	mg/Kg	1
Fluoranthene	**206-44-0**	**8270E**	**0.073**	**QD**	**0.029**	**0.0045**	**mg/Kg**	**1**
Fluorene	86-73-7	8270E	0.029	UQ	0.029	0.0061	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.14	UQ	0.14	0.054	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-008**	
Description: **B7-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1425**	Project Name: **Former Intermet-Lynchburg**	% Solids: **91.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/02/2021 2028	JCG	10/27/2021 1811	20392

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.72	UQS	0.72	0.27	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	**193-39-5**	**8270E**	**0.028**	**JQSD**	**0.029**	**0.011**	**mg/Kg**	**1**
Isophorone	78-59-1	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.029	UQ	0.029	0.011	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.14	UQS	0.14	0.054	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.29	UQS	0.29	0.11	mg/Kg	1
Naphthalene	91-20-3	8270E	0.029	UQ	0.029	0.010	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.29	UQ	0.29	0.11	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.29	UQL	0.29	0.11	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.29	UQL	0.29	0.11	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.29	UQ	0.29	0.11	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.72	UQS	0.72	0.27	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.14	UQ	0.14	0.054	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.72	UQS	0.72	0.27	mg/Kg	1
Phenanthrene	**85-01-8**	**8270E**	**0.038**	**QD**	**0.029**	**0.0077**	**mg/Kg**	**1**
Phenol	108-95-2	8270E	0.14	UQS	0.14	0.054	mg/Kg	1
Pyrene	**129-00-0**	**8270E**	**0.055**	**QD**	**0.029**	**0.0054**	**mg/Kg**	**1**
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.35	UQ	0.35	0.11	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.72	UQS	0.72	0.11	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.14	UQS	0.14	0.054	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.14	UQ	0.14	0.054	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		57	33-102
2-Fluorophenol	N	24	35-115
Nitrobenzene-d5		54	22-109
Phenol-d5	N	4.4	33-122
Terphenyl-d14		73	41-120
2,4,6-Tribromophenol	N	12	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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PCBs by GC

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-008**	
Description: **B7-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1425**	Project Name: **Former Intermet-Lynchburg**	% Solids: **91.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	10/27/2021 1318	CMF	10/25/2021 1657	20067

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	0.011	U	0.011	0.0029	mg/Kg	1
Aroclor 1221	11104-28-2	8082A	0.011	U	0.011	0.0025	mg/Kg	1
Aroclor 1232	11141-16-5	8082A	0.011	U	0.011	0.0023	mg/Kg	1
Aroclor 1242	53469-21-9	8082A	0.011	U	0.011	0.0017	mg/Kg	1
Aroclor 1248	12672-29-6	8082A	0.011	U	0.011	0.0044	mg/Kg	1
Aroclor 1254	11097-69-1	8082A	0.011	U	0.011	0.0027	mg/Kg	1
Aroclor 1260	11096-82-5	8082A	0.011	U	0.011	0.0026	mg/Kg	1
Aroclor 1262	37324-23-5	8082A	0.011	U	0.011	0.0022	mg/Kg	1
Aroclor 1268	11100-14-4	8082A	0.011	U	0.011	0.0015	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		57	41-132
Tetrachloro-m-xylene		50	35-106

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-008**	
Description: **B7-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1425**	Project Name: **Former Intermet-Lynchburg**	% Solids: **91.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/04/2021 1433	BPK	10/27/2021 0915	20128
1	7471B	7471B	1	11/02/2021 1349	CMS2	11/01/2021 1211	20140
2	3050B	6020B	10	11/04/2021 1440	BPK	10/27/2021 0915	20128
3	3050B	6020B	100	11/04/2021 1448	BPK	10/27/2021 0915	20128

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	**7429-90-5**	**6020B**	**12000**	**D**	**100**	**26**	**mg/kg**	**2**
Antimony	**7440-36-0**	**6020B**	**3.0**		**0.51**	**0.21**	**mg/kg**	**1**
Arsenic	**7440-38-2**	**6020B**	**39**		**0.51**	**0.21**	**mg/kg**	**1**
Barium	**7440-39-3**	**6020B**	**140**	**D**	**13**	**3.2**	**mg/kg**	**2**
Beryllium	**7440-41-7**	**6020B**	**0.71**		**0.10**	**0.035**	**mg/kg**	**1**
Cadmium	7440-43-9	6020B	0.13	U	0.13	0.026	mg/kg	1
Calcium	**7440-70-2**	**6020B**	**38000**	**D**	**1000**	**310**	**mg/kg**	**2**
Chromium	**7440-47-3**	**6020B**	**24**		**1.3**	**0.57**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6020B**	**33**		**1.3**	**0.31**	**mg/kg**	**1**
Copper	**7440-50-8**	**6020B**	**480**	**D**	**13**	**3.3**	**mg/kg**	**2**
Iron	**7439-89-6**	**6020B**	**120000**	**D**	**1300**	**260**	**mg/kg**	**3**
Lead	**7439-92-1**	**6020B**	**16**		**0.26**	**0.070**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6020B**	**1500**		**100**	**26**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6020B**	**5300**	**D**	**130**	**37**	**mg/kg**	**3**
Mercury	7439-97-6	7471B	0.084	U	0.084	0.020	mg/kg	1
Nickel	**7440-02-0**	**6020B**	**77**		**1.3**	**0.31**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6020B**	**1700**		**100**	**26**	**mg/kg**	**1**
Selenium	**7782-49-2**	**6020B**	**1.3**		**1.3**	**0.49**	**mg/kg**	**1**
Silver	**7440-22-4**	**6020B**	**0.64**		**0.26**	**0.062**	**mg/kg**	**1**
Sodium	**7440-23-5**	**6020B**	**510**		**100**	**38**	**mg/kg**	**1**
Thallium	**7440-28-0**	**6020B**	**0.066**	**J**	**0.13**	**0.031**	**mg/kg**	**1**
Vanadium	**7440-62-2**	**6020B**	**74**		**1.3**	**0.26**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6020B**	**14**		**2.6**	**0.51**	**mg/kg**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-009**	
Description: **B8-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1500**	Project Name: **Former Intermet-Lynchburg**	% Solids: **74.0**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/02/2021 1721	AAB	11/02/2021 1118	20909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	**57-12-5**	**9012B**	**160**		**0.68**	**0.27**	**mg/kg**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-009**	
Description: **B8-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1500**	Project Name: **Former Intermet-Lynchburg**	% Solids: **74.0**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1649	JM1		20009	4.48
2	5035	8260D	1	11/01/2021 1803	TML		20807	3.99

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**0.031**	**Q**	**0.030**	**0.012**	**mg/Kg**	**1**
Benzene	**71-43-2**	**8260D**	**0.016**		**0.0085**	**0.0034**	**mg/Kg**	**2**
Bromochloromethane	74-97-5	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Bromodichloromethane	75-27-4	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Bromoform	75-25-2	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0085	U	0.0085	0.0051	mg/Kg	2
2-Butanone (MEK)	**78-93-3**	**8260D**	**0.012**	**J**	**0.034**	**0.0068**	**mg/Kg**	**2**
Carbon disulfide	75-15-0	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Carbon tetrachloride	56-23-5	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Chlorobenzene	108-90-7	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Chloroethane	75-00-3	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Chloroform	67-66-3	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0085	U	0.0085	0.0051	mg/Kg	2
Cyclohexane	110-82-7	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Dibromochloromethane	124-48-1	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
1,2-Dichlorobenzene	95-50-1	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
1,3-Dichlorobenzene	541-73-1	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
1,4-Dichlorobenzene	106-46-7	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Dichlorodifluoromethane	75-71-8	8260D	0.0085	U	0.0085	0.0051	mg/Kg	2
1,1-Dichloroethane	75-34-3	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
1,2-Dichloroethane	107-06-2	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
1,1-Dichloroethene	75-35-4	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
cis-1,2-Dichloroethene	156-59-2	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
trans-1,2-Dichloroethene	156-60-5	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
1,2-Dichloropropane	78-87-5	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Ethylbenzene	100-41-4	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
2-Hexanone	591-78-6	8260D	0.017	U	0.017	0.0068	mg/Kg	2
Isopropylbenzene	98-82-8	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Methyl acetate	79-20-9	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
4-Methyl-2-pentanone	108-10-1	8260D	0.017	U	0.017	0.0068	mg/Kg	2
Methylcyclohexane	108-87-2	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Methylene chloride	75-09-2	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Styrene	100-42-5	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Tetrachloroethene	127-18-4	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Toluene	**108-88-3**	**8260D**	**0.010**		**0.0085**	**0.0034**	**mg/Kg**	**2**
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-009**	
Description: **B8-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1500**	Project Name: **Former Intermet-Lynchburg**	% Solids: **74.0**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1649	JM1		20009	4.48
2	5035	8260D	1	11/01/2021 1803	TML		20807	3.99

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
1,1,1-Trichloroethane	71-55-6	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
1,1,2-Trichloroethane	79-00-5	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Trichloroethene	79-01-6	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Trichlorofluoromethane	75-69-4	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
Vinyl chloride	75-01-4	8260D	0.0085	U	0.0085	0.0051	mg/Kg	2
m+p - Xylenes	179601-23-1	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2
o - Xylenes	95-47-6	8260D	0.0085	U	0.0085	0.0034	mg/Kg	2

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene		72	47-138		83	47-138
1,2-Dichloroethane-d4		92	53-142		96	53-142
Toluene-d8	N	125	68-124		107	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-009**	
Description: **B8-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1500**	Project Name: **Former Intermet-Lynchburg**	% Solids: **74.0**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	20	12/01/2021 2047	NCM	11/01/2021 1650	20851
2	3546	8270E	200	12/02/2021 1418	JCG	11/01/2021 1650	20851

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	**83-32-9**	**8270E**	**0.75**	**QD**	**0.072**	**0.022**	**mg/Kg**	**1**
Acenaphthylene	**208-96-8**	**8270E**	**3.6**	**QD**	**0.072**	**0.025**	**mg/Kg**	**1**
Acetophenone	98-86-2	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Anthracene	**120-12-7**	**8270E**	**5.3**	**QD**	**0.072**	**0.014**	**mg/Kg**	**1**
Atrazine	1912-24-9	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Benzo(a)anthracene	**56-55-3**	**8270E**	**19**	**QD**	**0.72**	**0.16**	**mg/Kg**	**2**
Benzo(a)pyrene	**50-32-8**	**8270E**	**22**	**QD**	**0.72**	**0.18**	**mg/Kg**	**2**
Benzo(b)fluoranthene	**205-99-2**	**8270E**	**27**	**QD**	**0.72**	**0.13**	**mg/Kg**	**2**
Benzo(g,h,i)perylene	**191-24-2**	**8270E**	**5.0**	**QD**	**0.072**	**0.017**	**mg/Kg**	**1**
Benzo(k)fluoranthene	**207-08-9**	**8270E**	**11**	**QD**	**0.72**	**0.13**	**mg/Kg**	**2**
1,1'-Biphenyl	**92-52-4**	**8270E**	**0.15**	**JQD**	**0.35**	**0.13**	**mg/Kg**	**1**
4-Bromophenyl phenyl ether	101-55-3	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Caprolactam	105-60-2	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Carbazole	**86-74-8**	**8270E**	**1.4**	**QD**	**0.35**	**0.13**	**mg/Kg**	**1**
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Chrysene	**218-01-9**	**8270E**	**20**	**QD**	**0.72**	**0.12**	**mg/Kg**	**2**
Dibenzo(a,h)anthracene	53-70-3	8270E	0.072	UQ	0.072	0.014	mg/Kg	1
Dibenzofuran	**132-64-9**	**8270E**	**0.67**	**QD**	**0.35**	**0.13**	**mg/Kg**	**1**
3,3'-Dichlorobenzidine	91-94-1	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.35	UQ	0.35	0.20	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	1.8	UQ	1.8	0.67	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	1.8	UQ	1.8	0.67	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.72	UQ	0.72	0.27	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.72	UQ	0.72	0.27	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.88	UQ	0.88	0.27	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	1.8	UQ	1.8	0.67	mg/Kg	1
Fluoranthene	**206-44-0**	**8270E**	**39**	**QD**	**0.72**	**0.11**	**mg/Kg**	**2**
Fluorene	**86-73-7**	**8270E**	**1.5**	**QD**	**0.072**	**0.015**	**mg/Kg**	**1**
Hexachlorobenzene	118-74-1	8270E	0.35	UQ	0.35	0.13	mg/Kg	1

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-009**	
Description: **B8-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1500**	Project Name: **Former Intermet-Lynchburg**	% Solids: **74.0**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	20	12/01/2021 2047	NCM	11/01/2021 1650	20851
2	3546	8270E	200	12/02/2021 1418	JCG	11/01/2021 1650	20851

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorobutadiene	87-68-3	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Hexachlorocyclopentadiene	77-47-4	8270E	1.8	UQ	1.8	0.67	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	**193-39-5**	**8270E**	**5.8**	**QD**	**0.072**	**0.027**	**mg/Kg**	**1**
Isophorone	78-59-1	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
2-Methylnaphthalene	**91-57-6**	**8270E**	**0.65**	**QD**	**0.072**	**0.026**	**mg/Kg**	**1**
2-Methylphenol	95-48-7	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.72	UQ	0.72	0.27	mg/Kg	1
Naphthalene	**91-20-3**	**8270E**	**0.82**	**QD**	**0.072**	**0.026**	**mg/Kg**	**1**
2-Nitroaniline	88-74-4	8270E	0.72	UQ	0.72	0.27	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.72	UQ	0.72	0.27	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.72	UQ	0.72	0.27	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.72	UQ	0.72	0.27	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	1.8	UQ	1.8	0.67	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	1.8	UQ	1.8	0.67	mg/Kg	1
Phenanthrene	**85-01-8**	**8270E**	**21**	**QD**	**0.72**	**0.19**	**mg/Kg**	**2**
Phenol	108-95-2	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Pyrene	**129-00-0**	**8270E**	**31**	**QD**	**0.72**	**0.13**	**mg/Kg**	**2**
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.88	UQ	0.88	0.27	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	1.8	UQ	1.8	0.27	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.35	UQ	0.35	0.13	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
2-Fluorobiphenyl		101	33-102		93	33-102
2-Fluorophenol		68	35-115		51	35-115
Nitrobenzene-d5	N	137	22-109	N	176	22-109
Phenol-d5		80	33-122		52	33-122
Terphenyl-d14	N	153	41-120	N	143	41-120
2,4,6-Tribromophenol	N	126	30-117		33	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-009**	
Description: **B8-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1500**	Project Name: **Former Intermet-Lynchburg**	% Solids: **74.0**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/04/2021 0734	BPK	10/27/2021 0915	20128
1	7471B	7471B	1	11/02/2021 1352	CMS2	11/01/2021 1211	20140
2	3050B	6020B	10	11/04/2021 1139	BPK	10/27/2021 0915	20128

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	**7429-90-5**	**6020B**	**20000**	**D**	**120**	**31**	**mg/kg**	**2**
Antimony	7440-36-0	6020B	0.61	U	0.61	0.24	mg/kg	1
Arsenic	**7440-38-2**	**6020B**	**0.86**		**0.61**	**0.24**	**mg/kg**	**1**
Barium	**7440-39-3**	**6020B**	**150**	**D**	**15**	**3.8**	**mg/kg**	**2**
Beryllium	**7440-41-7**	**6020B**	**0.66**		**0.12**	**0.041**	**mg/kg**	**1**
Cadmium	7440-43-9	6020B	0.16	U	0.16	0.031	mg/kg	1
Calcium	**7440-70-2**	**6020B**	**5300**		**120**	**37**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6020B**	**9.0**		**1.5**	**0.67**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6020B**	**14**		**1.5**	**0.37**	**mg/kg**	**1**
Copper	**7440-50-8**	**6020B**	**64**		**1.5**	**0.40**	**mg/kg**	**1**
Iron	**7439-89-6**	**6020B**	**46000**	**D**	**160**	**31**	**mg/kg**	**2**
Lead	**7439-92-1**	**6020B**	**2.9**		**0.31**	**0.083**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6020B**	**7000**		**120**	**31**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6020B**	**320**	**D**	**15**	**4.4**	**mg/kg**	**2**
Mercury	**7439-97-6**	**7471B**	**0.35**		**0.11**	**0.026**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6020B**	**10**		**1.5**	**0.37**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6020B**	**2700**		**120**	**31**	**mg/kg**	**1**
Selenium	**7782-49-2**	**6020B**	**1.4**	**J**	**1.5**	**0.58**	**mg/kg**	**1**
Silver	7440-22-4	6020B	0.31	U	0.31	0.073	mg/kg	1
Sodium	**7440-23-5**	**6020B**	**250**		**120**	**45**	**mg/kg**	**1**
Thallium	**7440-28-0**	**6020B**	**0.11**	**J**	**0.15**	**0.037**	**mg/kg**	**1**
Vanadium	**7440-62-2**	**6020B**	**140**	**D**	**15**	**3.1**	**mg/kg**	**2**
Zinc	**7440-66-6**	**6020B**	**49**		**3.1**	**0.61**	**mg/kg**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-010**	
Description: **B8-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1505**	Project Name: **Former Intermet-Lynchburg**	% Solids: **81.4**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/02/2021 1722	AAB	11/02/2021 1118	20909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	**57-12-5**	**9012B**	**2.9**		**0.61**	**0.25**	**mg/kg**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-010**	
Description: **B8-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1505**	Project Name: **Former Intermet-Lynchburg**	% Solids: **81.4**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1712	JM1		20009	7.92

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**0.14**		**0.016**	**0.0062**	**mg/Kg**	**1**
Benzene	71-43-2	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Bromoform	75-25-2	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0039	U	0.0039	0.0023	mg/Kg	1
2-Butanone (MEK)	**78-93-3**	**8260D**	**0.037**		**0.016**	**0.0031**	**mg/Kg**	**1**
Carbon disulfide	75-15-0	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Chloroform	67-66-3	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0039	U	0.0039	0.0023	mg/Kg	1
Cyclohexane	**110-82-7**	**8260D**	**0.0088**		**0.0039**	**0.0016**	**mg/Kg**	**1**
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0039	U	0.0039	0.0023	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.0078	U	0.0078	0.0031	mg/Kg	1
Isopropylbenzene	**98-82-8**	**8260D**	**0.057**		**0.0039**	**0.0016**	**mg/Kg**	**1**
Methyl acetate	79-20-9	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.0078	U	0.0078	0.0031	mg/Kg	1
Methylcyclohexane	**108-87-2**	**8260D**	**0.058**		**0.0039**	**0.0016**	**mg/Kg**	**1**
Methylene chloride	75-09-2	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Styrene	100-42-5	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Toluene	108-88-3	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-010**	
Description: **B8-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1505**	Project Name: **Former Intermet-Lynchburg**	% Solids: **81.4**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1712	JM1		20009	7.92

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0039	U	0.0039	0.0023	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0039	U	0.0039	0.0016	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		91	47-138
1,2-Dichloroethane-d4		93	53-142
Toluene-d8		110	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-010**	
Description: **B8-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1505**	Project Name: **Former Intermet-Lynchburg**	% Solids: **81.4**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	50	12/02/2021 1328	NCM	11/01/2021 1650	20851

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	**83-32-9**	**8270E**	**5.3**	**QD**	**0.16**	**0.051**	**mg/Kg**	**1**
Acenaphthylene	208-96-8	8270E	0.16	UQ	0.16	0.058	mg/Kg	1
Acetophenone	98-86-2	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Anthracene	120-12-7	8270E	0.16	UQ	0.16	0.031	mg/Kg	1
Atrazine	1912-24-9	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Benzo(a)anthracene	**56-55-3**	**8270E**	**0.20**	**QD**	**0.16**	**0.036**	**mg/Kg**	**1**
Benzo(a)pyrene	**50-32-8**	**8270E**	**0.14**	**JQD**	**0.16**	**0.040**	**mg/Kg**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270E**	**0.12**	**JQD**	**0.16**	**0.030**	**mg/Kg**	**1**
Benzo(g,h,i)perylene	**191-24-2**	**8270E**	**0.095**	**JQD**	**0.16**	**0.040**	**mg/Kg**	**1**
Benzo(k)fluoranthene	207-08-9	8270E	0.16	UQ	0.16	0.029	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Caprolactam	105-60-2	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Carbazole	86-74-8	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Chrysene	**218-01-9**	**8270E**	**0.20**	**QD**	**0.16**	**0.027**	**mg/Kg**	**1**
Dibenzo(a,h)anthracene	53-70-3	8270E	0.16	UQ	0.16	0.031	mg/Kg	1
Dibenzofuran	**132-64-9**	**8270E**	**1.8**	**QD**	**0.79**	**0.30**	**mg/Kg**	**1**
3,3'-Dichlorobenzidine	91-94-1	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.79	UQ	0.79	0.45	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	4.1	UQ	4.1	1.5	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	4.1	UQ	4.1	1.5	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	1.6	UQ	1.6	0.61	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	1.6	UQ	1.6	0.61	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	2.0	UQ	2.0	0.61	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	4.1	UQ	4.1	1.5	mg/Kg	1
Fluoranthene	**206-44-0**	**8270E**	**0.99**	**QD**	**0.16**	**0.026**	**mg/Kg**	**1**
Fluorene	**86-73-7**	**8270E**	**4.2**	**QD**	**0.16**	**0.035**	**mg/Kg**	**1**
Hexachlorobenzene	118-74-1	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.79	UQ	0.79	0.30	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-010**	
Description: **B8-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1505**	Project Name: **Former Intermet-Lynchburg**	% Solids: **81.4**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	50	12/02/2021 1328	NCM	11/01/2021 1650	20851

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	4.1	UQ	4.1	1.5	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.16	UQ	0.16	0.061	mg/Kg	1
Isophorone	78-59-1	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
2-Methylnaphthalene	**91-57-6**	**8270E**	**24**	**QD**	**0.16**	**0.060**	**mg/Kg**	**1**
2-Methylphenol	95-48-7	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	1.6	UQ	1.6	0.61	mg/Kg	1
Naphthalene	91-20-3	8270E	0.16	UQ	0.16	0.059	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	1.6	UQ	1.6	0.61	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	1.6	UQ	1.6	0.61	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	1.6	UQ	1.6	0.61	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	1.6	UQ	1.6	0.61	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	4.1	UQ	4.1	1.5	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	4.1	UQ	4.1	1.5	mg/Kg	1
Phenanthrene	**85-01-8**	**8270E**	**11**	**QD**	**0.16**	**0.044**	**mg/Kg**	**1**
Phenol	108-95-2	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
Pyrene	**129-00-0**	**8270E**	**1.9**	**QD**	**0.16**	**0.030**	**mg/Kg**	**1**
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	2.0	UQ	2.0	0.61	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	4.1	UQ	4.1	0.61	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.79	UQ	0.79	0.30	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.79	UQ	0.79	0.30	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl	N	334	33-102
2-Fluorophenol		75	35-115
Nitrobenzene-d5	N	306	22-109
Phenol-d5	N	123	33-122
Terphenyl-d14		116	41-120
2,4,6-Tribromophenol		52	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-010**	
Description: **B8-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1505**	Project Name: **Former Intermet-Lynchburg**	% Solids: **81.4**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/04/2021 0741	BPK	10/27/2021 0915	20128
1	7471B	7471B	1	11/02/2021 1355	CMS2	11/01/2021 1211	20140
2	3050B	6020B	10	11/04/2021 1147	BPK	10/27/2021 0915	20128

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	**7429-90-5**	**6020B**	**17000**	**D**	**110**	**26**	**mg/kg**	**2**
Antimony	7440-36-0	6020B	0.53	U	0.53	0.21	mg/kg	1
Arsenic	**7440-38-2**	**6020B**	**4.5**		**0.53**	**0.21**	**mg/kg**	**1**
Barium	**7440-39-3**	**6020B**	**120**	**D**	**13**	**3.3**	**mg/kg**	**2**
Beryllium	**7440-41-7**	**6020B**	**1.1**		**0.11**	**0.036**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6020B**	**0.070**	**J**	**0.14**	**0.026**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6020B**	**810**		**110**	**32**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6020B**	**17**		**1.3**	**0.59**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6020B**	**6.5**		**1.3**	**0.32**	**mg/kg**	**1**
Copper	**7440-50-8**	**6020B**	**18**		**1.3**	**0.34**	**mg/kg**	**1**
Iron	**7439-89-6**	**6020B**	**29000**	**D**	**140**	**26**	**mg/kg**	**2**
Lead	**7439-92-1**	**6020B**	**17**		**0.26**	**0.072**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6020B**	**2100**		**110**	**26**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6020B**	**200**	**D**	**13**	**3.8**	**mg/kg**	**2**
Mercury	7439-97-6	7471B	0.092	U	0.092	0.022	mg/kg	1
Nickel	**7440-02-0**	**6020B**	**14**		**1.3**	**0.32**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6020B**	**1900**		**110**	**26**	**mg/kg**	**1**
Selenium	**7782-49-2**	**6020B**	**3.6**		**1.3**	**0.50**	**mg/kg**	**1**
Silver	7440-22-4	6020B	0.26	U	0.26	0.064	mg/kg	1
Sodium	**7440-23-5**	**6020B**	**63**	**J**	**110**	**39**	**mg/kg**	**1**
Thallium	**7440-28-0**	**6020B**	**0.29**		**0.13**	**0.032**	**mg/kg**	**1**
Vanadium	**7440-62-2**	**6020B**	**32**		**1.3**	**0.26**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6020B**	**59**		**2.6**	**0.53**	**mg/kg**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-011**	
Description: **B9-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1540**	Project Name: **Former Intermet-Lynchburg**	% Solids: **90.8**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1651	AAB	11/03/2021 1120	21095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.55	U	0.55	0.22	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-011**	
Description: **B9-1**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1540**	Project Name: **Former Intermet-Lynchburg**	% Solids: **90.8**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/04/2021 0749	BPK	10/27/2021 0915	20128
1	7471B	7471B	1	11/02/2021 1358	CMS2	11/01/2021 1211	20140
2	3050B	6020B	10	11/04/2021 1155	BPK	10/27/2021 0915	20128

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	**7429-90-5**	**6020B**	**18000**	**D**	**95**	**24**	**mg/kg**	**2**
Antimony	7440-36-0	6020B	0.48	U	0.48	0.19	mg/kg	1
Arsenic	**7440-38-2**	**6020B**	**0.79**		**0.48**	**0.19**	**mg/kg**	**1**
Barium	**7440-39-3**	**6020B**	**210**	**D**	**12**	**3.0**	**mg/kg**	**2**
Beryllium	**7440-41-7**	**6020B**	**1.1**		**0.095**	**0.032**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6020B**	**0.11**	**J**	**0.12**	**0.024**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6020B**	**1500**		**95**	**29**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6020B**	**17**	**D**	**12**	**5.3**	**mg/kg**	**2**
Cobalt	**7440-48-4**	**6020B**	**37**	**D**	**12**	**2.9**	**mg/kg**	**2**
Copper	**7440-50-8**	**6020B**	**94**	**D**	**12**	**3.1**	**mg/kg**	**2**
Iron	**7439-89-6**	**6020B**	**57000**	**D**	**120**	**24**	**mg/kg**	**2**
Lead	**7439-92-1**	**6020B**	**23**		**0.24**	**0.065**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6020B**	**6800**	**D**	**950**	**240**	**mg/kg**	**2**
Manganese	**7439-96-5**	**6020B**	**620**	**D**	**12**	**3.5**	**mg/kg**	**2**
Mercury	**7439-97-6**	**7471B**	**0.098**		**0.085**	**0.020**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6020B**	**18**	**D**	**12**	**2.9**	**mg/kg**	**2**
Potassium	**7440-09-7**	**6020B**	**3900**	**D**	**950**	**240**	**mg/kg**	**2**
Selenium	**7782-49-2**	**6020B**	**2.2**		**1.2**	**0.45**	**mg/kg**	**1**
Silver	7440-22-4	6020B	0.24	U	0.24	0.057	mg/kg	1
Sodium	**7440-23-5**	**6020B**	**88**	**J**	**95**	**35**	**mg/kg**	**1**
Thallium	**7440-28-0**	**6020B**	**0.10**	**J**	**0.12**	**0.029**	**mg/kg**	**1**
Vanadium	**7440-62-2**	**6020B**	**200**	**D**	**12**	**2.4**	**mg/kg**	**2**
Zinc	**7440-66-6**	**6020B**	**120**	**D**	**24**	**4.8**	**mg/kg**	**2**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-012**	
Description: **B9-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1545**	Project Name: **Former Intermet-Lynchburg**	% Solids: **89.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1652	AAB	11/03/2021 1120	21095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.56	U	0.56	0.22	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-012**	
Description: **B9-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1545**	Project Name: **Former Intermet-Lynchburg**	% Solids: **89.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1735	JM1		20009	5.34

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.021	U	0.021	0.0084	mg/Kg	1
Benzene	71-43-2	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Bromoform	75-25-2	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0052	U	0.0052	0.0031	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.021	U	0.021	0.0042	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Chloroform	67-66-3	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0052	U	0.0052	0.0031	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0052	U	0.0052	0.0031	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.010	U	0.010	0.0042	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.010	U	0.010	0.0042	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Styrene	100-42-5	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Toluene	108-88-3	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-012**	
Description: **B9-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1545**	Project Name: **Former Intermet-Lynchburg**	% Solids: **89.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1735	JM1		20009	5.34

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0052	U	0.0052	0.0031	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0052	U	0.0052	0.0021	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	47-138
1,2-Dichloroethane-d4		87	53-142
Toluene-d8		93	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-012**	
Description: **B9-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1545**	Project Name: **Former Intermet-Lynchburg**	% Solids: **89.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	5	12/02/2021 1353	NCM	11/01/2021 1650	20851

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.015	UQ	0.015	0.0046	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.015	UQ	0.015	0.0053	mg/Kg	1
Acetophenone	98-86-2	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Anthracene	120-12-7	8270E	0.015	UQ	0.015	0.0028	mg/Kg	1
Atrazine	1912-24-9	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.015	UQ	0.015	0.0033	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	0.015	UQ	0.015	0.0037	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	0.015	UQ	0.015	0.0028	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.015	UQ	0.015	0.0036	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.015	UQ	0.015	0.0027	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Caprolactam	105-60-2	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Carbazole	86-74-8	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Chrysene	218-01-9	8270E	0.015	UQ	0.015	0.0025	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.015	UQ	0.015	0.0028	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.072	UQ	0.072	0.041	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.15	UQ	0.15	0.055	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.15	UQ	0.15	0.055	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.18	UQ	0.18	0.055	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
Fluoranthene	206-44-0	8270E	0.015	UQ	0.015	0.0023	mg/Kg	1
Fluorene	86-73-7	8270E	0.015	UQ	0.015	0.0032	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.072	UQ	0.072	0.028	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-012**	
Description: **B9-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1545**	Project Name: **Former Intermet-Lynchburg**	% Solids: **89.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	5	12/02/2021 1353	NCM	11/01/2021 1650	20851

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.015	UQ	0.015	0.0055	mg/Kg	1
Isophorone	78-59-1	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.015	UQ	0.015	0.0055	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.15	UQ	0.15	0.055	mg/Kg	1
Naphthalene	91-20-3	8270E	0.015	UQ	0.015	0.0054	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.15	UQ	0.15	0.055	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.15	UQ	0.15	0.055	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.15	UQ	0.15	0.055	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.15	UQ	0.15	0.055	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.015	UQ	0.015	0.0040	mg/Kg	1
Phenol	108-95-2	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
Pyrene	129-00-0	8270E	0.015	UQ	0.015	0.0028	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.18	UQ	0.18	0.055	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.37	UQ	0.37	0.055	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.072	UQ	0.072	0.028	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.072	UQ	0.072	0.028	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		92	33-102
2-Fluorophenol		79	35-115
Nitrobenzene-d5		106	22-109
Phenol-d5		87	33-122
Terphenyl-d14		108	41-120
2,4,6-Tribromophenol	N	125	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-012**	
Description: **B9-2**		Matrix: **Solid**	
Date Sampled: **10/20/2021 1545**	Project Name: **Former Intermet-Lynchburg**	% Solids: **89.3**	**10/21/2021 2311**
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/08/2021 1356	BNW	10/27/2021 0915	20129
1	7471B	7471B	1	11/02/2021 1400	CMS2	11/01/2021 1211	20140
2	3050B	6020B	10	11/08/2021 1513	BNW	10/27/2021 0915	20129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	**7429-90-5**	**6020B**	**15000**		**11**	**2.7**	**mg/kg**	**1**
Antimony	7440-36-0	6020B	0.53	U	0.53	0.21	mg/kg	1
Arsenic	**7440-38-2**	**6020B**	**2.5**		**0.53**	**0.21**	**mg/kg**	**1**
Barium	**7440-39-3**	**6020B**	**92**		**1.3**	**0.33**	**mg/kg**	**1**
Beryllium	**7440-41-7**	**6020B**	**0.53**		**0.11**	**0.036**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6020B**	**0.050**	**J**	**0.14**	**0.027**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6020B**	**820**		**110**	**32**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6020B**	**14**		**1.3**	**0.59**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6020B**	**6.8**		**1.3**	**0.32**	**mg/kg**	**1**
Copper	**7440-50-8**	**6020B**	**8.3**		**1.3**	**0.35**	**mg/kg**	**1**
Iron	**7439-89-6**	**6020B**	**26000**	**D**	**140**	**27**	**mg/kg**	**2**
Lead	**7439-92-1**	**6020B**	**28**		**0.27**	**0.073**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6020B**	**3100**		**110**	**27**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6020B**	**310**	**D**	**13**	**3.9**	**mg/kg**	**2**
Mercury	**7439-97-6**	**7471B**	**0.060**	**J**	**0.082**	**0.020**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6020B**	**7.6**		**1.3**	**0.32**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6020B**	**2800**		**110**	**27**	**mg/kg**	**1**
Selenium	**7782-49-2**	**6020B**	**0.55**	**J**	**1.3**	**0.50**	**mg/kg**	**1**
Silver	7440-22-4	6020B	0.27	U	0.27	0.064	mg/kg	1
Sodium	**7440-23-5**	**6020B**	**54**	**J**	**110**	**39**	**mg/kg**	**1**
Thallium	**7440-28-0**	**6020B**	**0.41**		**0.13**	**0.032**	**mg/kg**	**1**
Vanadium	**7440-62-2**	**6020B**	**25**		**1.3**	**0.27**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6020B**	**53**		**2.7**	**0.53**	**mg/kg**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**		Laboratory ID: **WJ21078-013**	
Description: **Trip Blank 1**		Matrix: **Aqueous**	
Date Sampled: **10/20/2021**	Project Name: **Former Intermet-Lynchburg**		
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/02/2021 0027	JWO		20878

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	10	U	10	4.0	ug/L	1
Benzene	71-43-2	8260D	0.50	U	0.50	0.40	ug/L	1
Bromochloromethane	74-97-5	8260D	0.50	U	0.50	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	0.50	U	0.50	0.40	ug/L	1
Bromoform	75-25-2	8260D	0.50	U	0.50	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.50	U	0.50	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	10	U	10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	0.50	U	0.50	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	0.50	U	0.50	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	0.50	U	0.50	0.40	ug/L	1
Chloroethane	75-00-3	8260D	0.50	U	0.50	0.40	ug/L	1
Chloroform	67-66-3	8260D	0.50	U	0.50	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.50	U	0.50	0.40	ug/L	1
Cyclohexane	110-82-7	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.50	U	0.50	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	0.50	U	0.50	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	0.50	U	0.50	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	0.50	U	0.50	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	0.50	U	0.50	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.50	U	0.50	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	0.50	U	0.50	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.50	U	0.50	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.50	U	0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	0.50	U	0.50	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	10	U	10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	0.50	U	0.50	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	1.0	U	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.50	U	0.50	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	10	U	10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	5.0	U	5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	0.50	U	0.50	0.40	ug/L	1
Styrene	100-42-5	8260D	0.50	U	0.50	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.50	U	0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	0.50	U	0.50	0.40	ug/L	1
Toluene	108-88-3	8260D	0.50	U	0.50	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	1.0	U	1.0	0.42	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.50	U	0.50	0.40	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.50	U	0.50	0.40	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **Draper Aden Associates**			Laboratory ID: **WJ21078-013**
Description: **Trip Blank 1**			Matrix: **Aqueous**
Date Sampled: **10/20/2021**	Project Name: **Former Intermet-Lynchburg**		
Date Received: **10/21/2021**	Project Number: **B12188B-10HM**		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/02/2021 0027	JWO		20878

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.50	U	0.50	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	0.50	U	0.50	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	0.50	U	0.50	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	0.50	U	0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	0.50	U	0.50	0.40	ug/L	1
m+p - Xylenes	179601-23-1	8260D	0.50	U	0.50	0.40	ug/L	1
o - Xylenes	95-47-6	8260D	0.50	U	0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		87	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		94	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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QC Summary

Inorganic non-metals - MB

Sample ID: WQ20909-001
Batch: 20909
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/02/2021 1118

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Cyanide - Total	0.50	U	1	0.50	0.20	mg/kg	11/02/2021 1702

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - LCS

Sample ID: WQ20909-002
Batch: 20909
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/02/2021 1118

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Cyanide - Total	5000	5100		1	101	90-110	11/02/2021 1704

LOQ = Limit of Quantitation
DL = Detection Limit

U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - MS

Sample ID: WJ21078-001MS
Batch: 20909
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/02/2021 1118

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Cyanide - Total	120	6700	7300		1	108	90-110	11/02/2021 1708

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - MSD

Sample ID: WJ21078-001MD
Batch: 20909
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/02/2021 1118

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Cyanide - Total	120	6700	6000	N	1	88	20	90-110	20	11/02/2021 1709

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - MB

Sample ID: WQ21095-001
Batch: 21095
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/03/2021 1120

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Cyanide - Total	0.50	U	1	0.50	0.20	mg/kg	11/03/2021 1646

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - LCS

Sample ID: WQ21095-002
Batch: 21095
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/03/2021 1120

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Cyanide - Total	5.0	5.4		1	107	90-110	11/03/2021 1647

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ20009-001
Batch: 20009
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	0.020	U	1	0.020	0.0080	mg/kg	10/25/2021 1008
Benzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Bromochloromethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Bromodichloromethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Bromoform	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Bromomethane (Methyl bromide)	0.0050	U	1	0.0050	0.0030	mg/kg	10/25/2021 1008
2-Butanone (MEK)	0.020	U	1	0.020	0.0040	mg/kg	10/25/2021 1008
Carbon disulfide	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Carbon tetrachloride	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Chlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Chloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Chloroform	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Chloromethane (Methyl chloride)	0.0050	U	1	0.0050	0.0030	mg/kg	10/25/2021 1008
Cyclohexane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2-Dibromo-3-chloropropane (DBCP)	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Dibromochloromethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2-Dibromoethane (EDB)	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2-Dichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,3-Dichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,4-Dichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Dichlorodifluoromethane	0.0050	U	1	0.0050	0.0030	mg/kg	10/25/2021 1008
1,1-Dichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2-Dichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,1-Dichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
cis-1,2-Dichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
trans-1,2-Dichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2-Dichloropropane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
cis-1,3-Dichloropropene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
trans-1,3-Dichloropropene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Ethylbenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
2-Hexanone	0.010	U	1	0.010	0.0040	mg/kg	10/25/2021 1008
Isopropylbenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Methyl acetate	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Methyl tertiary butyl ether (MTBE)	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
4-Methyl-2-pentanone	0.010	U	1	0.010	0.0040	mg/kg	10/25/2021 1008
Methylcyclohexane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Methylene chloride	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Styrene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,1,2,2-Tetrachloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Tetrachloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Toluene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2,3-Trichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2,4-Trichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ20009-001
Batch: 20009
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,1,1-Trichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,1,2-Trichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Trichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Trichlorofluoromethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Vinyl chloride	0.0050	U	1	0.0050	0.0030	mg/kg	10/25/2021 1008
m+p - Xylenes	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
o - Xylenes	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		84	53-142
Toluene-d8		97	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20009-002
Batch: 20009
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	0.10	0.099		1	99	60-140	10/25/2021 0922
Benzene	0.050	0.049		1	97	70-130	10/25/2021 0922
Bromochloromethane	0.050	0.050		1	100	70-130	10/25/2021 0922
Bromodichloromethane	0.050	0.048		1	97	70-130	10/25/2021 0922
Bromoform	0.050	0.051		1	102	70-130	10/25/2021 0922
Bromomethane (Methyl bromide)	0.050	0.054		1	107	70-130	10/25/2021 0922
2-Butanone (MEK)	0.10	0.097		1	97	60-140	10/25/2021 0922
Carbon disulfide	0.050	0.051		1	101	70-130	10/25/2021 0922
Carbon tetrachloride	0.050	0.048		1	96	70-130	10/25/2021 0922
Chlorobenzene	0.050	0.048		1	96	70-130	10/25/2021 0922
Chloroethane	0.050	0.051		1	102	70-130	10/25/2021 0922
Chloroform	0.050	0.049		1	98	70-130	10/25/2021 0922
Chloromethane (Methyl chloride)	0.050	0.053		1	106	60-140	10/25/2021 0922
Cyclohexane	0.050	0.041		1	83	70-130	10/25/2021 0922
1,2-Dibromo-3-chloropropane (DBCP)	0.050	0.047		1	93	70-130	10/25/2021 0922
Dibromochloromethane	0.050	0.049		1	99	70-130	10/25/2021 0922
1,2-Dibromoethane (EDB)	0.050	0.047		1	95	70-130	10/25/2021 0922
1,2-Dichlorobenzene	0.050	0.049		1	97	70-130	10/25/2021 0922
1,3-Dichlorobenzene	0.050	0.048		1	96	70-130	10/25/2021 0922
1,4-Dichlorobenzene	0.050	0.048		1	96	70-130	10/25/2021 0922
Dichlorodifluoromethane	0.050	0.045		1	91	60-140	10/25/2021 0922
1,1-Dichloroethane	0.050	0.049		1	98	70-130	10/25/2021 0922
1,2-Dichloroethane	0.050	0.049		1	98	70-130	10/25/2021 0922
1,1-Dichloroethene	0.050	0.049		1	99	70-130	10/25/2021 0922
cis-1,2-Dichloroethene	0.050	0.049		1	99	70-130	10/25/2021 0922
trans-1,2-Dichloroethene	0.050	0.050		1	99	70-130	10/25/2021 0922
1,2-Dichloropropane	0.050	0.048		1	96	70-130	10/25/2021 0922
cis-1,3-Dichloropropene	0.050	0.047		1	95	70-130	10/25/2021 0922
trans-1,3-Dichloropropene	0.050	0.048		1	95	70-130	10/25/2021 0922
Ethylbenzene	0.050	0.048		1	96	70-130	10/25/2021 0922
2-Hexanone	0.10	0.091		1	91	70-130	10/25/2021 0922
Isopropylbenzene	0.050	0.050		1	100	70-130	10/25/2021 0922
Methyl acetate	0.050	0.047		1	93	70-130	10/25/2021 0922
Methyl tertiary butyl ether (MTBE)	0.050	0.051		1	103	70-130	10/25/2021 0922
4-Methyl-2-pentanone	0.10	0.093		1	93	70-130	10/25/2021 0922
Methylcyclohexane	0.050	0.043		1	85	70-130	10/25/2021 0922
Methylene chloride	0.050	0.051		1	102	70-130	10/25/2021 0922
Styrene	0.050	0.049		1	98	70-130	10/25/2021 0922
1,1,2,2-Tetrachloroethane	0.050	0.046		1	92	70-130	10/25/2021 0922
Tetrachloroethene	0.050	0.049		1	98	70-130	10/25/2021 0922
Toluene	0.050	0.046		1	93	70-130	10/25/2021 0922
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.050	0.043		1	85	70-130	10/25/2021 0922
1,2,3-Trichlorobenzene	0.050	0.051		1	102	70-130	10/25/2021 0922
1,2,4-Trichlorobenzene	0.050	0.050		1	101	70-130	10/25/2021 0922

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20009-002
Batch: 20009
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,1,1-Trichloroethane	0.050	0.048		1	97	70-130	10/25/2021 0922
1,1,2-Trichloroethane	0.050	0.047		1	93	70-130	10/25/2021 0922
Trichloroethene	0.050	0.050		1	99	70-130	10/25/2021 0922
Trichlorofluoromethane	0.050	0.046		1	91	70-130	10/25/2021 0922
Vinyl chloride	0.050	0.052		1	105	70-130	10/25/2021 0922
m+p - Xylenes	0.050	0.049		1	97	70-130	10/25/2021 0922
o - Xylenes	0.050	0.049		1	98	70-130	10/25/2021 0922

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	47-138
1,2-Dichloroethane-d4		96	53-142
Toluene-d8		94	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ20807-001
Batch: 20807
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Bromochloromethane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Bromodichloromethane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Bromoform	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Bromomethane (Methyl bromide)	0.0050	U	1	0.0050	0.0030	mg/kg	11/01/2021 1058
2-Butanone (MEK)	0.020	U	1	0.020	0.0040	mg/kg	11/01/2021 1058
Carbon disulfide	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Carbon tetrachloride	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Chlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Chloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Chloroform	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Chloromethane (Methyl chloride)	0.0050	U	1	0.0050	0.0030	mg/kg	11/01/2021 1058
Cyclohexane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
1,2-Dibromo-3-chloropropane (DBCP)	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Dibromochloromethane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
1,2-Dibromoethane (EDB)	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
1,2-Dichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
1,3-Dichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
1,4-Dichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Dichlorodifluoromethane	0.0050	U	1	0.0050	0.0030	mg/kg	11/01/2021 1058
1,1-Dichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
1,2-Dichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
1,1-Dichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
cis-1,2-Dichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
trans-1,2-Dichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
1,2-Dichloropropane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
cis-1,3-Dichloropropene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
trans-1,3-Dichloropropene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Ethylbenzene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
2-Hexanone	0.010	U	1	0.010	0.0040	mg/kg	11/01/2021 1058
Isopropylbenzene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Methyl acetate	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Methyl tertiary butyl ether (MTBE)	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
4-Methyl-2-pentanone	0.010	U	1	0.010	0.0040	mg/kg	11/01/2021 1058
Methylcyclohexane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Methylene chloride	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Styrene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
1,1,2,2-Tetrachloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Tetrachloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Toluene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
1,2,3-Trichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
1,2,4-Trichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
1,1,1-Trichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ20807-001
Batch: 20807
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,1,2-Trichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Trichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Trichlorofluoromethane	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
Vinyl chloride	0.0050	U	1	0.0050	0.0030	mg/kg	11/01/2021 1058
m+p - Xylenes	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058
o - Xylenes	0.0050	U	1	0.0050	0.0020	mg/kg	11/01/2021 1058

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		103	47-138
1,2-Dichloroethane-d4		84	53-142
Toluene-d8		99	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20807-002
Batch: 20807
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Benzene	0.050	0.050		1	100	70-130	11/01/2021 0955
Bromochloromethane	0.050	0.048		1	95	70-130	11/01/2021 0955
Bromodichloromethane	0.050	0.049		1	98	70-130	11/01/2021 0955
Bromoform	0.050	0.053		1	105	70-130	11/01/2021 0955
Bromomethane (Methyl bromide)	0.050	0.049		1	97	70-130	11/01/2021 0955
2-Butanone (MEK)	0.10	0.086		1	86	60-140	11/01/2021 0955
Carbon disulfide	0.050	0.051		1	102	70-130	11/01/2021 0955
Carbon tetrachloride	0.050	0.052		1	104	70-130	11/01/2021 0955
Chlorobenzene	0.050	0.052		1	104	70-130	11/01/2021 0955
Chloroethane	0.050	0.046		1	92	70-130	11/01/2021 0955
Chloroform	0.050	0.048		1	95	70-130	11/01/2021 0955
Chloromethane (Methyl chloride)	0.050	0.044		1	87	60-140	11/01/2021 0955
Cyclohexane	0.050	0.050		1	100	70-130	11/01/2021 0955
1,2-Dibromo-3-chloropropane (DBCP)	0.050	0.048		1	96	70-130	11/01/2021 0955
Dibromochloromethane	0.050	0.053		1	106	70-130	11/01/2021 0955
1,2-Dibromoethane (EDB)	0.050	0.050		1	100	70-130	11/01/2021 0955
1,2-Dichlorobenzene	0.050	0.053		1	106	70-130	11/01/2021 0955
1,3-Dichlorobenzene	0.050	0.054		1	107	70-130	11/01/2021 0955
1,4-Dichlorobenzene	0.050	0.054		1	107	70-130	11/01/2021 0955
Dichlorodifluoromethane	0.050	0.054		1	109	60-140	11/01/2021 0955
1,1-Dichloroethane	0.050	0.046		1	93	70-130	11/01/2021 0955
1,2-Dichloroethane	0.050	0.048		1	95	70-130	11/01/2021 0955
1,1-Dichloroethene	0.050	0.051		1	103	70-130	11/01/2021 0955
cis-1,2-Dichloroethene	0.050	0.048		1	96	70-130	11/01/2021 0955
trans-1,2-Dichloroethene	0.050	0.048		1	97	70-130	11/01/2021 0955
1,2-Dichloropropane	0.050	0.048		1	96	70-130	11/01/2021 0955
cis-1,3-Dichloropropene	0.050	0.049		1	97	70-130	11/01/2021 0955
trans-1,3-Dichloropropene	0.050	0.052		1	103	70-130	11/01/2021 0955
Ethylbenzene	0.050	0.054		1	108	70-130	11/01/2021 0955
2-Hexanone	0.10	0.086		1	86	70-130	11/01/2021 0955
Isopropylbenzene	0.050	0.056		1	112	70-130	11/01/2021 0955
Methyl acetate	0.050	0.043		1	86	70-130	11/01/2021 0955
Methyl tertiary butyl ether (MTBE)	0.050	0.047		1	93	70-130	11/01/2021 0955
4-Methyl-2-pentanone	0.10	0.088		1	88	70-130	11/01/2021 0955
Methylcyclohexane	0.050	0.057		1	115	70-130	11/01/2021 0955
Methylene chloride	0.050	0.047		1	95	70-130	11/01/2021 0955
Styrene	0.050	0.052		1	104	70-130	11/01/2021 0955
1,1,2,2-Tetrachloroethane	0.050	0.047		1	95	70-130	11/01/2021 0955
Tetrachloroethene	0.050	0.060		1	119	70-130	11/01/2021 0955
Toluene	0.050	0.053		1	107	70-130	11/01/2021 0955
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.050	0.056		1	111	70-130	11/01/2021 0955
1,2,3-Trichlorobenzene	0.050	0.055		1	111	70-130	11/01/2021 0955
1,2,4-Trichlorobenzene	0.050	0.057		1	114	70-130	11/01/2021 0955
1,1,1-Trichloroethane	0.050	0.050		1	100	70-130	11/01/2021 0955

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20807-002
Batch: 20807
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,1,2-Trichloroethane	0.050	0.051		1	102	70-130	11/01/2021 0955
Trichloroethene	0.050	0.053		1	107	70-130	11/01/2021 0955
Trichlorofluoromethane	0.050	0.052		1	104	70-130	11/01/2021 0955
Vinyl chloride	0.050	0.049		1	98	70-130	11/01/2021 0955
m+p - Xylenes	0.050	0.054		1	107	70-130	11/01/2021 0955
o - Xylenes	0.050	0.054		1	107	70-130	11/01/2021 0955

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		105	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ20878-001
Batch: 20878
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	10	U	1	10	4.0	ug/L	11/01/2021 2344
Benzene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Bromochloromethane	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Bromodichloromethane	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Bromoform	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Bromomethane (Methyl bromide)	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
2-Butanone (MEK)	10	U	1	10	2.0	ug/L	11/01/2021 2344
Carbon disulfide	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Carbon tetrachloride	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Chlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Chloroethane	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Chloroform	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Chloromethane (Methyl chloride)	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Cyclohexane	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
1,2-Dibromo-3-chloropropane (DBCP)	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Dibromochloromethane	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
1,2-Dibromoethane (EDB)	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
1,2-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
1,3-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
1,4-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Dichlorodifluoromethane	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
1,1-Dichloroethane	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
1,2-Dichloroethane	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
1,1-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
cis-1,2-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
trans-1,2-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
1,2-Dichloropropane	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
cis-1,3-Dichloropropene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
trans-1,3-Dichloropropene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Ethylbenzene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
2-Hexanone	10	U	1	10	2.0	ug/L	11/01/2021 2344
Isopropylbenzene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Methyl acetate	1.0	U	1	1.0	0.40	ug/L	11/01/2021 2344
Methyl tertiary butyl ether (MTBE)	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
4-Methyl-2-pentanone	10	U	1	10	2.0	ug/L	11/01/2021 2344
Methylcyclohexane	5.0	U	1	5.0	0.40	ug/L	11/01/2021 2344
Methylene chloride	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Styrene	0.50	U	1	0.50	0.41	ug/L	11/01/2021 2344
1,1,2,2-Tetrachloroethane	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Tetrachloroethene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Toluene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1	1.0	0.42	ug/L	11/01/2021 2344
1,2,3-Trichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
1,2,4-Trichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ20878-001
Batch: 20878
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,1,1-Trichloroethane	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
1,1,2-Trichloroethane	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Trichloroethene	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Trichlorofluoromethane	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
Vinyl chloride	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
m+p - Xylenes	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344
o - Xylenes	0.50	U	1	0.50	0.40	ug/L	11/01/2021 2344

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		89	70-130
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		96	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20878-002
Batch: 20878
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	120		1	125	60-140	11/01/2021 2146
Benzene	50	57		1	114	70-130	11/01/2021 2146
Bromochloromethane	50	55		1	110	70-130	11/01/2021 2146
Bromodichloromethane	50	52		1	103	70-130	11/01/2021 2146
Bromoform	50	59		1	118	70-130	11/01/2021 2146
Bromomethane (Methyl bromide)	50	52		1	104	70-130	11/01/2021 2146
2-Butanone (MEK)	100	120		1	117	70-130	11/01/2021 2146
Carbon disulfide	50	55		1	110	70-130	11/01/2021 2146
Carbon tetrachloride	50	55		1	110	70-130	11/01/2021 2146
Chlorobenzene	50	53		1	106	70-130	11/01/2021 2146
Chloroethane	50	54		1	107	70-130	11/01/2021 2146
Chloroform	50	52		1	105	70-130	11/01/2021 2146
Chloromethane (Methyl chloride)	50	55		1	111	60-140	11/01/2021 2146
Cyclohexane	50	55		1	109	70-130	11/01/2021 2146
1,2-Dibromo-3-chloropropane (DBCP)	50	51		1	102	70-130	11/01/2021 2146
Dibromochloromethane	50	56		1	112	70-130	11/01/2021 2146
1,2-Dibromoethane (EDB)	50	52		1	104	70-130	11/01/2021 2146
1,2-Dichlorobenzene	50	54		1	109	70-130	11/01/2021 2146
1,3-Dichlorobenzene	50	52		1	104	70-130	11/01/2021 2146
1,4-Dichlorobenzene	50	51		1	101	70-130	11/01/2021 2146
Dichlorodifluoromethane	50	61		1	121	60-140	11/01/2021 2146
1,1-Dichloroethane	50	52		1	104	70-130	11/01/2021 2146
1,2-Dichloroethane	50	62		1	124	70-130	11/01/2021 2146
1,1-Dichloroethene	50	56		1	111	70-130	11/01/2021 2146
cis-1,2-Dichloroethene	50	54		1	108	70-130	11/01/2021 2146
trans-1,2-Dichloroethene	50	55		1	109	70-130	11/01/2021 2146
1,2-Dichloropropane	50	54		1	109	70-130	11/01/2021 2146
cis-1,3-Dichloropropene	50	57		1	114	70-130	11/01/2021 2146
trans-1,3-Dichloropropene	50	54		1	108	70-130	11/01/2021 2146
Ethylbenzene	50	57		1	114	70-130	11/01/2021 2146
2-Hexanone	100	84		1	84	70-130	11/01/2021 2146
Isopropylbenzene	50	57		1	113	70-130	11/01/2021 2146
Methyl acetate	50	49		1	98	70-130	11/01/2021 2146
Methyl tertiary butyl ether (MTBE)	50	58		1	116	70-130	11/01/2021 2146
4-Methyl-2-pentanone	100	100		1	100	70-130	11/01/2021 2146
Methylcyclohexane	50	60		1	121	70-130	11/01/2021 2146
Methylene chloride	50	52		1	105	70-130	11/01/2021 2146
Styrene	50	56		1	113	70-130	11/01/2021 2146
1,1,2,2-Tetrachloroethane	50	59		1	117	70-130	11/01/2021 2146
Tetrachloroethene	50	54		1	108	70-130	11/01/2021 2146
Toluene	50	54		1	109	70-130	11/01/2021 2146
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	52		1	103	70-130	11/01/2021 2146
1,2,3-Trichlorobenzene	50	53		1	105	70-130	11/01/2021 2146
1,2,4-Trichlorobenzene	50	51		1	102	70-130	11/01/2021 2146

LOQ = Limit of Quantitation
DL = Detection Limit
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J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20878-002
Batch: 20878
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,1,1-Trichloroethane	50	54		1	108	70-130	11/01/2021 2146
1,1,2-Trichloroethane	50	53		1	105	70-130	11/01/2021 2146
Trichloroethene	50	54		1	108	70-130	11/01/2021 2146
Trichlorofluoromethane	50	59		1	117	70-130	11/01/2021 2146
Vinyl chloride	50	52		1	105	70-130	11/01/2021 2146
m+p - Xylenes	50	60		1	120	70-130	11/01/2021 2146
o - Xylenes	50	55		1	109	70-130	11/01/2021 2146

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		108	70-130
1,2-Dichloroethane-d4		122	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: WQ20392-001
Batch: 20392
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 10/27/2021 1811

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acenaphthene	0.0027	U	1	0.0027	0.00083	mg/kg	11/04/2021 1710
Acenaphthylene	0.0027	U	1	0.0027	0.00095	mg/kg	11/04/2021 1710
Acetophenone	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Anthracene	0.0027	U	1	0.0027	0.00051	mg/kg	11/04/2021 1710
Atrazine	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Benzaldehyde	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Benzo(a)anthracene	0.0027	U	1	0.0027	0.00059	mg/kg	11/04/2021 1710
Benzo(a)pyrene	0.0027	U	1	0.0027	0.00066	mg/kg	11/04/2021 1710
Benzo(b)fluoranthene	0.0027	U	1	0.0027	0.00050	mg/kg	11/04/2021 1710
Benzo(g,h,i)perylene	0.0027	U	1	0.0027	0.00065	mg/kg	11/04/2021 1710
Benzo(k)fluoranthene	0.0027	U	1	0.0027	0.00048	mg/kg	11/04/2021 1710
1,1'-Biphenyl	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
4-Bromophenyl phenyl ether	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Butyl benzyl phthalate	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Caprolactam	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Carbazole	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
bis (2-Chloro-1-methylethyl) ether	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
4-Chloro-3-methyl phenol	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
4-Chloroaniline	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
bis(2-Chloroethoxy)methane	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
bis(2-Chloroethyl)ether	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
2-Chloronaphthalene	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
2-Chlorophenol	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
4-Chlorophenyl phenyl ether	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Chrysene	0.0027	U	1	0.0027	0.00045	mg/kg	11/04/2021 1710
Dibenzo(a,h)anthracene	0.0027	U	1	0.0027	0.00051	mg/kg	11/04/2021 1710
Dibenzofuran	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
3,3'-Dichlorobenzidine	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
2,4-Dichlorophenol	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Diethylphthalate	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Dimethyl phthalate	0.013	U	1	0.013	0.0074	mg/kg	11/04/2021 1710
2,4-Dimethylphenol	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Di-n-butyl phthalate	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
4,6-Dinitro-2-methylphenol	0.067	U	1	0.067	0.025	mg/kg	11/04/2021 1710
2,4-Dinitrophenol	0.067	U	1	0.067	0.025	mg/kg	11/04/2021 1710
2,4-Dinitrotoluene	0.027	U	1	0.027	0.010	mg/kg	11/04/2021 1710
2,6-Dinitrotoluene	0.027	U	1	0.027	0.010	mg/kg	11/04/2021 1710
Di-n-octylphthalate	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
1,4-Dioxane	0.033	U	1	0.033	0.010	mg/kg	11/04/2021 1710
bis(2-Ethylhexyl)phthalate	0.067	U	1	0.067	0.025	mg/kg	11/04/2021 1710
Fluoranthene	0.0027	U	1	0.0027	0.00042	mg/kg	11/04/2021 1710
Fluorene	0.0027	U	1	0.0027	0.00057	mg/kg	11/04/2021 1710
Hexachlorobenzene	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Hexachlorobutadiene	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: WQ20392-001
Batch: 20392
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 10/27/2021 1811

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Hexachlorocyclopentadiene	0.067	U	1	0.067	0.025	mg/kg	11/04/2021 1710
Hexachloroethane	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Indeno(1,2,3-c,d)pyrene	0.0027	U	1	0.0027	0.0010	mg/kg	11/04/2021 1710
Isophorone	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
2-Methylnaphthalene	0.0027	U	1	0.0027	0.00099	mg/kg	11/04/2021 1710
2-Methylphenol	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
3+4-Methylphenol	0.027	U	1	0.027	0.010	mg/kg	11/04/2021 1710
Naphthalene	0.0027	U	1	0.0027	0.00097	mg/kg	11/04/2021 1710
2-Nitroaniline	0.027	U	1	0.027	0.010	mg/kg	11/04/2021 1710
3-Nitroaniline	0.027	U	1	0.027	0.010	mg/kg	11/04/2021 1710
4-Nitroaniline	0.027	U	1	0.027	0.010	mg/kg	11/04/2021 1710
Nitrobenzene	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
2-Nitrophenol	0.027	U	1	0.027	0.010	mg/kg	11/04/2021 1710
4-Nitrophenol	0.067	U	1	0.067	0.025	mg/kg	11/04/2021 1710
N-Nitrosodi-n-propylamine	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
N-Nitrosodiphenylamine (Diphenylamine)	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Pentachlorophenol	0.067	U	1	0.067	0.025	mg/kg	11/04/2021 1710
Phenanthrene	0.0027	U	1	0.0027	0.00072	mg/kg	11/04/2021 1710
Phenol	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
Pyrene	0.0027	U	1	0.0027	0.00050	mg/kg	11/04/2021 1710
1,2,4,5-Tetrachlorobenzene	0.033	U	1	0.033	0.010	mg/kg	11/04/2021 1710
2,3,4,6-Tetrachlorophenol	0.067	U	1	0.067	0.010	mg/kg	11/04/2021 1710
2,4,5-Trichlorophenol	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710
2,4,6-Trichlorophenol	0.013	U	1	0.013	0.0050	mg/kg	11/04/2021 1710

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		47	33-102
2-Fluorophenol		44	35-115
Nitrobenzene-d5		46	22-109
Phenol-d5		41	33-122
Terphenyl-d14		47	41-120
2,4,6-Tribromophenol		42	30-117

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20392-002
Batch: 20392
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 10/27/2021 1811

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acenaphthene	0.13	0.064		1	48	12-111	11/04/2021 1734
Acenaphthylene	0.13	0.071		1	53	44-122	11/04/2021 1734
Acetophenone	0.13	0.067		1	50	48-111	11/04/2021 1734
Anthracene	0.13	0.071		1	53	16-122	11/04/2021 1734
Atrazine	0.13	0.060	N	1	45	48-116	11/04/2021 1734
Benzaldehyde	0.13	0.070		1	53	10-110	11/04/2021 1734
Benzo(a)anthracene	0.13	0.076		1	57	40-121	11/04/2021 1734
Benzo(a)pyrene	0.13	0.079		1	60	36-114	11/04/2021 1734
Benzo(b)fluoranthene	0.13	0.079		1	60	38-123	11/04/2021 1734
Benzo(g,h,i)perylene	0.13	0.067		1	50	43-120	11/04/2021 1734
Benzo(k)fluoranthene	0.13	0.082		1	62	40-126	11/04/2021 1734
1,1'-Biphenyl	0.13	0.066		1	50	49-110	11/04/2021 1734
4-Bromophenyl phenyl ether	0.13	0.075		1	56	46-118	11/04/2021 1734
Butyl benzyl phthalate	0.13	0.066		1	49	46-128	11/04/2021 1734
Caprolactam	0.13	0.062		1	46	43-121	11/04/2021 1734
Carbazole	0.13	0.065		1	49	47-128	11/04/2021 1734
bis (2-Chloro-1-methylethyl) ether	0.13	0.047		1	36	31-102	11/04/2021 1734
4-Chloro-3-methyl phenol	0.13	0.058	N	1	44	49-118	11/04/2021 1734
4-Chloroaniline	0.13	0.0039	N	1	2.9	17-106	11/04/2021 1734
bis(2-Chloroethoxy)methane	0.13	0.055		1	41	39-108	11/04/2021 1734
bis(2-Chloroethyl)ether	0.13	0.055		1	42	32-105	11/04/2021 1734
2-Chloronaphthalene	0.13	0.067		1	50	31-127	11/04/2021 1734
2-Chlorophenol	0.13	0.066		1	49	37-106	11/04/2021 1734
4-Chlorophenyl phenyl ether	0.13	0.076		1	57	47-116	11/04/2021 1734
Chrysene	0.13	0.082		1	62	41-124	11/04/2021 1734
Dibenzo(a,h)anthracene	0.13	0.070		1	52	38-125	11/04/2021 1734
Dibenzofuran	0.13	0.069		1	52	45-112	11/04/2021 1734
3,3'-Dichlorobenzidine	0.13	0.026		1	19	10-119	11/04/2021 1734
2,4-Dichlorophenol	0.13	0.068		1	51	41-113	11/04/2021 1734
Diethylphthalate	0.13	0.075		1	57	49-123	11/04/2021 1734
Dimethyl phthalate	0.13	0.074		1	56	48-120	11/04/2021 1734
2,4-Dimethylphenol	0.13	0.098		1	74	33-123	11/04/2021 1734
Di-n-butyl phthalate	0.13	0.069		1	52	51-129	11/04/2021 1734
4,6-Dinitro-2-methylphenol	0.13	0.059		1	45	40-130	11/04/2021 1734
2,4-Dinitrophenol	0.27	0.096		1	36	32-115	11/04/2021 1734
2,4-Dinitrotoluene	0.13	0.077		1	58	48-124	11/04/2021 1734
2,6-Dinitrotoluene	0.13	0.068		1	51	47-125	11/04/2021 1734
Di-n-octylphthalate	0.13	0.073		1	55	49-142	11/04/2021 1734
bis(2-Ethylhexyl)phthalate	0.13	0.078		1	59	45-128	11/04/2021 1734
Fluoranthene	0.13	0.067		1	51	26-133	11/04/2021 1734
Fluorene	0.13	0.066		1	50	19-108	11/04/2021 1734
Hexachlorobenzene	0.13	0.074		1	55	44-122	11/04/2021 1734
Hexachlorobutadiene	0.13	0.077		1	58	33-103	11/04/2021 1734
Hexachlorocyclopentadiene	0.67	0.47		1	71	18-121	11/04/2021 1734

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20392-002
Batch: 20392
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 10/27/2021 1811

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Hexachloroethane	0.13	0.065		1	49	30-96	11/04/2021 1734
Indeno(1,2,3-c,d)pyrene	0.13	0.071		1	53	42-123	11/04/2021 1734
Isophorone	0.13	0.064		1	48	41-113	11/04/2021 1734
2-Methylnaphthalene	0.13	0.065		1	49	10-107	11/04/2021 1734
2-Methylphenol	0.13	0.067		1	51	32-107	11/04/2021 1734
3+4-Methylphenol	0.13	0.066		1	50	39-108	11/04/2021 1734
Naphthalene	0.13	0.064		1	48	10-112	11/04/2021 1734
2-Nitroaniline	0.13	0.062		1	46	45-123	11/04/2021 1734
3-Nitroaniline	0.13	0.022	N	1	16	24-127	11/04/2021 1734
4-Nitroaniline	0.13	0.052	N	1	39	48-127	11/04/2021 1734
Nitrobenzene	0.13	0.068		1	51	33-114	11/04/2021 1734
2-Nitrophenol	0.13	0.066		1	49	35-108	11/04/2021 1734
4-Nitrophenol	0.27	0.15		1	55	18-154	11/04/2021 1734
N-Nitrosodi-n-propylamine	0.13	0.064		1	48	32-115	11/04/2021 1734
N-Nitrosodiphenylamine (Diphenylamine)	0.13	0.077		1	58	53-150	11/04/2021 1734
Pentachlorophenol	0.27	0.11		1	40	27-138	11/04/2021 1734
Phenanthrene	0.13	0.070		1	52	16-123	11/04/2021 1734
Phenol	0.13	0.063		1	47	36-108	11/04/2021 1734
Pyrene	0.13	0.065		1	49	34-121	11/04/2021 1734
1,2,4,5-Tetrachlorobenzene	0.13	0.073		1	55	53-125	11/04/2021 1734
2,3,4,6-Tetrachlorophenol	0.13	0.081		1	61	30-130	11/04/2021 1734
2,4,5-Trichlorophenol	0.13	0.073		1	55	46-122	11/04/2021 1734
2,4,6-Trichlorophenol	0.13	0.078		1	59	38-115	11/04/2021 1734

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		57	33-102
2-Fluorophenol		48	35-115
Nitrobenzene-d5		53	22-109
Phenol-d5		54	33-122
Terphenyl-d14		55	41-120
2,4,6-Tribromophenol		59	30-117

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: WJ21078-008MS
Batch: 20392
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 10/27/2021 1811

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acenaphthene	0.00	0.14	0.13		10	90	12-111	12/02/2021 2053
Acenaphthylene	0.00	0.14	0.11		10	79	44-122	12/02/2021 2053
Acetophenone	0.00	0.14	0.11		10	79	30-130	12/02/2021 2053
Anthracene	0.00	0.14	0.12		10	85	16-122	12/02/2021 2053
Atrazine	0.00	0.14	0.12		10	84	30-130	12/02/2021 2053
Benzaldehyde	0.00	0.14	0.11		10	76	10-110	12/02/2021 2053
Benzo(a)anthracene	0.040	0.14	0.13		10	62	40-121	12/02/2021 2053
Benzo(a)pyrene	0.042	0.14	0.13		10	59	36-114	12/02/2021 2053
Benzo(b)fluoranthene	0.073	0.14	0.15		10	52	38-123	12/02/2021 2053
Benzo(g,h,i)perylene	0.034	0.14	0.085	N	10	35	43-120	12/02/2021 2053
Benzo(k)fluoranthene	0.023	0.14	0.12		10	70	40-126	12/02/2021 2053
1,1'-Biphenyl	0.00	0.14	0.11		10	77	30-130	12/02/2021 2053
4-Bromophenyl phenyl ether	0.00	0.14	0.13		10	93	30-130	12/02/2021 2053
Butyl benzyl phthalate	0.00	0.14	0.11		10	74	30-130	12/02/2021 2053
Caprolactam	0.00	0.14	0.16		10	111	30-130	12/02/2021 2053
Carbazole	0.00	0.14	0.12		10	86	30-130	12/02/2021 2053
bis (2-Chloro-1-methylethyl) ether	0.00	0.14	0.11		10	78	30-130	12/02/2021 2053
4-Chloro-3-methyl phenol	0.00	0.14		N,U	10	0.00	30-130	12/02/2021 2053
4-Chloroaniline	0.00	0.14	0.043		10	30	17-106	12/02/2021 2053
bis(2-Chloroethoxy)methane	0.00	0.14	0.11		10	80	30-130	12/02/2021 2053
bis(2-Chloroethyl)ether	0.00	0.14	0.11		10	74	30-130	12/02/2021 2053
2-Chloronaphthalene	0.00	0.14	0.10		10	73	30-130	12/02/2021 2053
2-Chlorophenol	0.00	0.14	0.084		10	59	30-130	12/02/2021 2053
4-Chlorophenyl phenyl ether	0.00	0.14	0.12		10	83	30-130	12/02/2021 2053
Chrysene	0.042	0.14	0.14		10	67	41-124	12/02/2021 2053
Dibenzo(a,h)anthracene	0.00	0.14	0.082		10	57	38-125	12/02/2021 2053
Dibenzofuran	0.00	0.14	0.12		10	81	30-130	12/02/2021 2053
3,3'-Dichlorobenzidine	0.00	0.14		N,U	10	0.00	10-119	12/02/2021 2053
2,4-Dichlorophenol	0.00	0.14	0.086		10	60	30-130	12/02/2021 2053
Diethylphthalate	0.00	0.14	0.12		10	81	30-130	12/02/2021 2053
Dimethyl phthalate	0.00	0.14	0.11		10	76	30-130	12/02/2021 2053
2,4-Dimethylphenol	0.00	0.14	0.045		10	31	30-130	12/02/2021 2053
Di-n-butyl phthalate	0.00	0.14	0.13		10	87	30-130	12/02/2021 2053
4,6-Dinitro-2-methylphenol	0.00	0.14	0.23	N	10	163	30-130	12/02/2021 2053
2,4-Dinitrophenol	0.00	0.29	1.0	N	10	363	30-130	12/02/2021 2053
2,4-Dinitrotoluene	0.00	0.14	0.27	N	10	187	30-130	12/02/2021 2053
2,6-Dinitrotoluene	0.00	0.14	0.25	N	10	172	30-130	12/02/2021 2053
Di-n-octylphthalate	0.00	0.14	0.090		10	63	30-130	12/02/2021 2053
bis(2-Ethylhexyl)phthalate	0.00	0.14	0.10		10	71	30-130	12/02/2021 2053
Fluoranthene	0.073	0.14	0.17		10	67	26-133	12/02/2021 2053
Fluorene	0.00	0.14	0.12		10	81	19-108	12/02/2021 2053
Hexachlorobenzene	0.00	0.14	0.14		10	94	30-130	12/02/2021 2053
Hexachlorobutadiene	0.00	0.14	0.11		10	78	30-130	12/02/2021 2053
Hexachlorocyclopentadiene	0.00	0.72	0.14	N	10	20	30-130	12/02/2021 2053

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: WJ21078-008MS
Batch: 20392
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 10/27/2021 1811

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Hexachloroethane	0.00	0.14	0.093		10	65	30-130	12/02/2021 2053
Indeno(1,2,3-c,d)pyrene	0.028	0.14	0.091		10	44	42-123	12/02/2021 2053
Isophorone	0.00	0.14	0.10		10	72	30-130	12/02/2021 2053
2-Methylnaphthalene	0.00	0.14	0.13		10	89	10-107	12/02/2021 2053
2-Methylphenol	0.00	0.14		N,U	10	0.00	30-130	12/02/2021 2053
3+4-Methylphenol	0.00	0.14	0.036	N	10	25	30-130	12/02/2021 2053
Naphthalene	0.00	0.14	0.11		10	80	10-112	12/02/2021 2053
2-Nitroaniline	0.00	0.14	0.12		10	86	30-130	12/02/2021 2053
3-Nitroaniline	0.00	0.14	0.15		10	103	30-130	12/02/2021 2053
4-Nitroaniline	0.00	0.14	0.10		10	72	30-130	12/02/2021 2053
Nitrobenzene	0.00	0.14	0.11		10	77	30-130	12/02/2021 2053
2-Nitrophenol	0.00	0.14	0.16		10	112	30-130	12/02/2021 2053
4-Nitrophenol	0.00	0.29		N,U	10	0.00	30-130	12/02/2021 2053
N-Nitrosodi-n-propylamine	0.00	0.14	0.12		10	82	30-130	12/02/2021 2053
N-Nitrosodiphenylamine (Diphenylamine)	0.00	0.14	0.13		10	88	30-130	12/02/2021 2053
Pentachlorophenol	0.00	0.29		N,U	10	0.00	30-130	12/02/2021 2053
Phenanthrene	0.038	0.14	0.14		10	69	16-123	12/02/2021 2053
Phenol	0.00	0.14	0.068		10	48	30-130	12/02/2021 2053
Pyrene	0.055	0.14	0.14		10	60	34-121	12/02/2021 2053
1,2,4,5-Tetrachlorobenzene	0.00	0.14	0.12		10	82	53-125	12/02/2021 2053
2,3,4,6-Tetrachlorophenol	0.00	0.36	0.040	N	10	11	30-130	12/02/2021 2053
2,4,5-Trichlorophenol	0.00	0.14	0.056		10	39	30-130	12/02/2021 2053
2,4,6-Trichlorophenol	0.00	0.14	0.059		10	41	30-130	12/02/2021 2053

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		80	33-102
2-Fluorophenol		50	35-115
Nitrobenzene-d5		79	22-109
Phenol-d5		40	33-122
Terphenyl-d14		88	41-120
2,4,6-Tribromophenol	N	1.2	30-117

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: WJ21078-008MD
Batch: 20392
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 10/27/2021 1811

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	0.00	0.14	0.086	+	10	59	41	12-111	30	12/02/2021 2118
Acenaphthylene	0.00	0.14	0.078	+	10	54	37	44-122	30	12/02/2021 2118
Acetophenone	0.00	0.14	0.082		10	57	32	30-130	40	12/02/2021 2118
Anthracene	0.00	0.14	0.095		10	66	25	16-122	30	12/02/2021 2118
Atrazine	0.00	0.14	0.093		10	65	25	30-130	40	12/02/2021 2118
Benzaldehyde	0.00	0.14	0.081		10	57	29	10-110	40	12/02/2021 2118
Benzo(a)anthracene	0.040	0.14	0.11		10	49	15	40-121	30	12/02/2021 2118
Benzo(a)pyrene	0.042	0.14	0.11		10	50	10	36-114	30	12/02/2021 2118
Benzo(b)fluoranthene	0.073	0.14	0.13		10	41	11	38-123	30	12/02/2021 2118
Benzo(g,h,i)perylene	0.034	0.14	0.075	N	10	29	12	43-120	30	12/02/2021 2118
Benzo(k)fluoranthene	0.023	0.14	0.11		10	60	12	40-126	30	12/02/2021 2118
1,1'-Biphenyl	0.00	0.14	0.074		10	52	39	30-130	40	12/02/2021 2118
4-Bromophenyl phenyl ether	0.00	0.14	0.097		10	67	31	30-130	40	12/02/2021 2118
Butyl benzyl phthalate	0.00	0.14	0.083		10	57	25	30-130	40	12/02/2021 2118
Caprolactam	0.00	0.14	0.11		10	76	37	30-130	40	12/02/2021 2118
Carbazole	0.00	0.14	0.097		10	68	23	30-130	40	12/02/2021 2118
bis (2-Chloro-1-methylethyl) ether	0.00	0.14	0.079		10	55	35	30-130	40	12/02/2021 2118
4-Chloro-3-methyl phenol	0.00	0.14		N,U	10	0.00	0.00	30-130	40	12/02/2021 2118
4-Chloroaniline	0.00	0.14		N,+,U	10	0.00	200	17-106	40	12/02/2021 2118
bis(2-Chloroethoxy)methane	0.00	0.14	0.081		10	56	34	30-130	40	12/02/2021 2118
bis(2-Chloroethyl)ether	0.00	0.14	0.071		10	49	40	30-130	40	12/02/2021 2118
2-Chloronaphthalene	0.00	0.14	0.070		10	49	39	30-130	40	12/02/2021 2118
2-Chlorophenol	0.00	0.14	0.058		10	40	36	30-130	40	12/02/2021 2118
4-Chlorophenyl phenyl ether	0.00	0.14	0.084		10	58	35	30-130	40	12/02/2021 2118
Chrysene	0.042	0.14	0.12		10	57	10	41-124	30	12/02/2021 2118
Dibenzo(a,h)anthracene	0.00	0.14	0.068		10	48	18	38-125	30	12/02/2021 2118
Dibenzofuran	0.00	0.14	0.078		10	54	39	30-130	40	12/02/2021 2118
3,3'-Dichlorobenzidine	0.00	0.14		N,U	10	0.00	0.00	10-119	40	12/02/2021 2118
2,4-Dichlorophenol	0.00	0.14	0.052	+	10	36	49	30-130	40	12/02/2021 2118
Diethylphthalate	0.00	0.14	0.086		10	59	30	30-130	40	12/02/2021 2118
Dimethyl phthalate	0.00	0.14	0.078		10	54	33	30-130	40	12/02/2021 2118
2,4-Dimethylphenol	0.00	0.14	0.039	N	10	27	14	30-130	40	12/02/2021 2118
Di-n-butyl phthalate	0.00	0.14	0.097		10	68	25	30-130	40	12/02/2021 2118
4,6-Dinitro-2-methylphenol	0.00	0.14	0.23	N	10	160	1.2	30-130	40	12/02/2021 2118
2,4-Dinitrophenol	0.00	0.29	1.0	N	10	363	0.60	30-130	40	12/02/2021 2118
2,4-Dinitrotoluene	0.00	0.14	0.25	N	10	174	6.7	30-130	40	12/02/2021 2118
2,6-Dinitrotoluene	0.00	0.14	0.22	N	10	151	13	30-130	40	12/02/2021 2118
Di-n-octylphthalate	0.00	0.14		N,+,U	10	0.00	200	30-130	40	12/02/2021 2118
bis(2-Ethylhexyl)phthalate	0.00	0.14	0.077		10	53	28	30-130	40	12/02/2021 2118
Fluoranthene	0.073	0.14	0.16		10	57	8.3	26-133	30	12/02/2021 2118
Fluorene	0.00	0.14	0.084	+	10	58	32	19-108	30	12/02/2021 2118
Hexachlorobenzene	0.00	0.14	0.095		10	66	34	30-130	40	12/02/2021 2118
Hexachlorobutadiene	0.00	0.14	0.069	+	10	48	46	30-130	40	12/02/2021 2118
Hexachlorocyclopentadiene	0.00	0.72		N,+,U	10	0.00	200	30-130	40	12/02/2021 2118

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: WJ21078-008MD
Batch: 20392
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 10/27/2021 1811

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Hexachloroethane	0.00	0.14	0.055	+	10	38	51	30-130	40	12/02/2021 2118
Indeno(1,2,3-c,d)pyrene	0.028	0.14	0.077	N	10	34	17	42-123	30	12/02/2021 2118
Isophorone	0.00	0.14	0.065	+	10	45	44	30-130	40	12/02/2021 2118
2-Methylnaphthalene	0.00	0.14	0.090	+	10	62	34	10-107	30	12/02/2021 2118
2-Methylphenol	0.00	0.14		N,U	10	0.00	0.00	30-130	40	12/02/2021 2118
3+4-Methylphenol	0.00	0.14		N,+,U	10	0.00	200	30-130	40	12/02/2021 2118
Naphthalene	0.00	0.14	0.079	+	10	55	37	10-112	30	12/02/2021 2118
2-Nitroaniline	0.00	0.14	0.076	+	10	53	48	30-130	40	12/02/2021 2118
3-Nitroaniline	0.00	0.14	0.090	+	10	63	48	30-130	40	12/02/2021 2118
4-Nitroaniline	0.00	0.14	0.082		10	57	23	30-130	40	12/02/2021 2118
Nitrobenzene	0.00	0.14	0.081		10	56	30	30-130	40	12/02/2021 2118
2-Nitrophenol	0.00	0.14	0.13		10	87	25	30-130	40	12/02/2021 2118
4-Nitrophenol	0.00	0.29		N,U	10	0.00	0.00	30-130	40	12/02/2021 2118
N-Nitrosodi-n-propylamine	0.00	0.14	0.081		10	57	36	30-130	40	12/02/2021 2118
N-Nitrosodiphenylamine (Diphenylamine)	0.00	0.14	0.096		10	67	26	30-130	40	12/02/2021 2118
Pentachlorophenol	0.00	0.29		N,U	10	0.00	0.00	30-130	40	12/02/2021 2118
Phenanthrene	0.038	0.14	0.11		10	53	18	16-123	30	12/02/2021 2118
Phenol	0.00	0.14		N,+,U	10	0.00	200	30-130	40	12/02/2021 2118
Pyrene	0.055	0.14	0.13		10	50	11	34-121	30	12/02/2021 2118
1,2,4,5-Tetrachlorobenzene	0.00	0.14	0.084		10	58	34	53-125	40	12/02/2021 2118
2,3,4,6-Tetrachlorophenol	0.00	0.36		N,+,U	10	0.00	200	30-130	40	12/02/2021 2118
2,4,5-Trichlorophenol	0.00	0.14	0.038	N	10	26	39	30-130	40	12/02/2021 2118
2,4,6-Trichlorophenol	0.00	0.14	0.045		10	32	26	30-130	40	12/02/2021 2118

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		50	33-102
2-Fluorophenol	N	28	35-115
Nitrobenzene-d5		55	22-109
Phenol-d5	N	25	33-122
Terphenyl-d14		65	41-120
2,4,6-Tribromophenol	N	24	30-117

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: WQ20851-001
Batch: 20851
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/01/2021 1650

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acenaphthene	0.0027	U	1	0.0027	0.00083	mg/kg	12/01/2021 1248
Acenaphthylene	0.0027	U	1	0.0027	0.00095	mg/kg	12/01/2021 1248
Acetophenone	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Anthracene	0.0027	U	1	0.0027	0.00051	mg/kg	12/01/2021 1248
Atrazine	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Benzaldehyde	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Benzo(a)anthracene	0.0027	U	1	0.0027	0.00059	mg/kg	12/01/2021 1248
Benzo(a)pyrene	0.0027	U	1	0.0027	0.00066	mg/kg	12/01/2021 1248
Benzo(b)fluoranthene	0.0027	U	1	0.0027	0.00050	mg/kg	12/01/2021 1248
Benzo(g,h,i)perylene	0.0027	U	1	0.0027	0.00065	mg/kg	12/01/2021 1248
Benzo(k)fluoranthene	0.0027	U	1	0.0027	0.00048	mg/kg	12/01/2021 1248
1,1'-Biphenyl	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
4-Bromophenyl phenyl ether	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Butyl benzyl phthalate	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Caprolactam	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Carbazole	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
bis (2-Chloro-1-methylethyl) ether	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
4-Chloro-3-methyl phenol	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
4-Chloroaniline	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
bis(2-Chloroethoxy)methane	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
bis(2-Chloroethyl)ether	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
2-Chloronaphthalene	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
2-Chlorophenol	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
4-Chlorophenyl phenyl ether	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Chrysene	0.0027	U	1	0.0027	0.00045	mg/kg	12/01/2021 1248
Dibenzo(a,h)anthracene	0.0027	U	1	0.0027	0.00051	mg/kg	12/01/2021 1248
Dibenzofuran	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
3,3'-Dichlorobenzidine	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
2,4-Dichlorophenol	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Diethylphthalate	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Dimethyl phthalate	0.013	U	1	0.013	0.0074	mg/kg	12/01/2021 1248
2,4-Dimethylphenol	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Di-n-butyl phthalate	**0.026**		**1**	**0.013**	**0.0050**	**mg/kg**	**12/01/2021 1248**
4,6-Dinitro-2-methylphenol	0.067	U	1	0.067	0.025	mg/kg	12/01/2021 1248
2,4-Dinitrophenol	0.067	U	1	0.067	0.025	mg/kg	12/01/2021 1248
2,4-Dinitrotoluene	0.027	U	1	0.027	0.010	mg/kg	12/01/2021 1248
2,6-Dinitrotoluene	0.027	U	1	0.027	0.010	mg/kg	12/01/2021 1248
Di-n-octylphthalate	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
1,4-Dioxane	0.033	U	1	0.033	0.010	mg/kg	12/01/2021 1248
bis(2-Ethylhexyl)phthalate	0.067	U	1	0.067	0.025	mg/kg	12/01/2021 1248
Fluoranthene	0.0027	U	1	0.0027	0.00042	mg/kg	12/01/2021 1248
Fluorene	0.0027	U	1	0.0027	0.00057	mg/kg	12/01/2021 1248
Hexachlorobenzene	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Hexachlorobutadiene	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: WQ20851-001
Batch: 20851
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/01/2021 1650

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Hexachlorocyclopentadiene	0.067	U	1	0.067	0.025	mg/kg	12/01/2021 1248
Hexachloroethane	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Indeno(1,2,3-c,d)pyrene	0.0027	U	1	0.0027	0.0010	mg/kg	12/01/2021 1248
Isophorone	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
2-Methylnaphthalene	0.0027	U	1	0.0027	0.00099	mg/kg	12/01/2021 1248
2-Methylphenol	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
3+4-Methylphenol	0.027	U	1	0.027	0.010	mg/kg	12/01/2021 1248
Naphthalene	0.0027	U	1	0.0027	0.00097	mg/kg	12/01/2021 1248
2-Nitroaniline	0.027	U	1	0.027	0.010	mg/kg	12/01/2021 1248
3-Nitroaniline	0.027	U	1	0.027	0.010	mg/kg	12/01/2021 1248
4-Nitroaniline	0.027	U	1	0.027	0.010	mg/kg	12/01/2021 1248
Nitrobenzene	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
2-Nitrophenol	0.027	U	1	0.027	0.010	mg/kg	12/01/2021 1248
4-Nitrophenol	0.067	U	1	0.067	0.025	mg/kg	12/01/2021 1248
N-Nitrosodi-n-propylamine	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
N-Nitrosodiphenylamine (Diphenylamine)	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Pentachlorophenol	0.067	U	1	0.067	0.025	mg/kg	12/01/2021 1248
Phenanthrene	0.0027	U	1	0.0027	0.00072	mg/kg	12/01/2021 1248
Phenol	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
Pyrene	0.0027	U	1	0.0027	0.00050	mg/kg	12/01/2021 1248
1,2,4,5-Tetrachlorobenzene	0.033	U	1	0.033	0.010	mg/kg	12/01/2021 1248
2,3,4,6-Tetrachlorophenol	0.067	U	1	0.067	0.010	mg/kg	12/01/2021 1248
2,4,5-Trichlorophenol	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248
2,4,6-Trichlorophenol	0.013	U	1	0.013	0.0050	mg/kg	12/01/2021 1248

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		87	33-102
2-Fluorophenol		85	35-115
Nitrobenzene-d5		98	22-109
Phenol-d5		95	33-122
Terphenyl-d14		107	41-120
2,4,6-Tribromophenol	N	125	30-117

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20851-002
Batch: 20851
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/01/2021 1650

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acenaphthene	0.13	0.11		1	85	12-111	12/01/2021 1313
Acenaphthylene	0.13	0.11		1	84	44-122	12/01/2021 1313
Acetophenone	0.13	0.11		1	85	48-111	12/01/2021 1313
Anthracene	0.13	0.12		1	90	16-122	12/01/2021 1313
Atrazine	0.13	0.11		1	82	48-116	12/01/2021 1313
Benzaldehyde	0.13	0.077		1	58	10-110	12/01/2021 1313
Benzo(a)anthracene	0.13	0.11		1	83	40-121	12/01/2021 1313
Benzo(a)pyrene	0.13	0.11		1	86	36-114	12/01/2021 1313
Benzo(b)fluoranthene	0.13	0.12		1	88	38-123	12/01/2021 1313
Benzo(g,h,i)perylene	0.13	0.13		1	99	43-120	12/01/2021 1313
Benzo(k)fluoranthene	0.13	0.12		1	92	40-126	12/01/2021 1313
1,1'-Biphenyl	0.13	0.10		1	78	49-110	12/01/2021 1313
4-Bromophenyl phenyl ether	0.13	0.13		1	95	46-118	12/01/2021 1313
Butyl benzyl phthalate	0.13	0.082		1	62	46-128	12/01/2021 1313
Caprolactam	0.13	0.14		1	107	43-121	12/01/2021 1313
Carbazole	0.13	0.12		1	91	47-128	12/01/2021 1313
bis (2-Chloro-1-methylethyl) ether	0.13	0.12		1	90	31-102	12/01/2021 1313
4-Chloro-3-methyl phenol	0.13	0.12		1	92	49-118	12/01/2021 1313
4-Chloroaniline	0.13	0.048		1	36	17-106	12/01/2021 1313
bis(2-Chloroethoxy)methane	0.13	0.11		1	86	39-108	12/01/2021 1313
bis(2-Chloroethyl)ether	0.13	0.11		1	85	32-105	12/01/2021 1313
2-Chloronaphthalene	0.13	0.10		1	76	31-127	12/01/2021 1313
2-Chlorophenol	0.13	0.11		1	80	37-106	12/01/2021 1313
4-Chlorophenyl phenyl ether	0.13	0.11		1	82	47-116	12/01/2021 1313
Chrysene	0.13	0.12		1	88	41-124	12/01/2021 1313
Dibenzo(a,h)anthracene	0.13	0.13		1	97	38-125	12/01/2021 1313
Dibenzofuran	0.13	0.11		1	79	45-112	12/01/2021 1313
3,3'-Dichlorobenzidine	0.13	0.089		1	67	10-119	12/01/2021 1313
2,4-Dichlorophenol	0.13	0.11		1	82	41-113	12/01/2021 1313
Diethylphthalate	0.13	0.11		1	85	49-123	12/01/2021 1313
Dimethyl phthalate	0.13	0.11		1	79	48-120	12/01/2021 1313
2,4-Dimethylphenol	0.13	0.13		1	95	33-123	12/01/2021 1313
Di-n-butyl phthalate	0.13	0.13		1	101	51-129	12/01/2021 1313
4,6-Dinitro-2-methylphenol	0.13	0.091		1	68	40-130	12/01/2021 1313
2,4-Dinitrophenol	0.27	0.16		1	61	32-115	12/01/2021 1313
2,4-Dinitrotoluene	0.13	0.11		1	80	48-124	12/01/2021 1313
2,6-Dinitrotoluene	0.13	0.11		1	83	47-125	12/01/2021 1313
Di-n-octylphthalate	0.13	0.10		1	76	49-142	12/01/2021 1313
bis(2-Ethylhexyl)phthalate	0.13	0.11		1	82	45-128	12/01/2021 1313
Fluoranthene	0.13	0.12		1	93	26-133	12/01/2021 1313
Fluorene	0.13	0.11		1	84	19-108	12/01/2021 1313
Hexachlorobenzene	0.13	0.13		1	96	44-122	12/01/2021 1313
Hexachlorobutadiene	0.13	0.11		1	80	33-103	12/01/2021 1313
Hexachlorocyclopentadiene	0.67	0.59		1	89	18-121	12/01/2021 1313

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20851-002
Batch: 20851
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/01/2021 1650

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Hexachloroethane	0.13	0.096		1	72	30-96	12/01/2021 1313
Indeno(1,2,3-c,d)pyrene	0.13	0.13		1	96	42-123	12/01/2021 1313
Isophorone	0.13	0.12		1	90	41-113	12/01/2021 1313
2-Methylnaphthalene	0.13	0.12		1	87	10-107	12/01/2021 1313
2-Methylphenol	0.13	0.14		1	104	32-107	12/01/2021 1313
3+4-Methylphenol	0.13	0.13		1	96	39-108	12/01/2021 1313
Naphthalene	0.13	0.11		1	81	10-112	12/01/2021 1313
2-Nitroaniline	0.13	0.13		1	95	45-123	12/01/2021 1313
3-Nitroaniline	0.13	0.062		1	46	24-127	12/01/2021 1313
4-Nitroaniline	0.13	0.11		1	79	48-127	12/01/2021 1313
Nitrobenzene	0.13	0.11		1	85	33-114	12/01/2021 1313
2-Nitrophenol	0.13	0.11		1	83	35-108	12/01/2021 1313
4-Nitrophenol	0.27	0.22		1	82	18-154	12/01/2021 1313
N-Nitrosodi-n-propylamine	0.13	0.12		1	92	32-115	12/01/2021 1313
N-Nitrosodiphenylamine (Diphenylamine)	0.13	0.12		1	94	53-150	12/01/2021 1313
Pentachlorophenol	0.27	0.27		1	100	27-138	12/01/2021 1313
Phenanthrene	0.13	0.12		1	89	16-123	12/01/2021 1313
Phenol	0.13	0.12		1	88	36-108	12/01/2021 1313
Pyrene	0.13	0.11		1	81	34-121	12/01/2021 1313
1,2,4,5-Tetrachlorobenzene	0.13	0.11		1	84	53-125	12/01/2021 1313
2,3,4,6-Tetrachlorophenol	0.33	0.13		1	39	30-130	12/01/2021 1313
2,4,5-Trichlorophenol	0.13	0.11		1	84	46-122	12/01/2021 1313
2,4,6-Trichlorophenol	0.13	0.11		1	83	38-115	12/01/2021 1313

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		82	33-102
2-Fluorophenol		79	35-115
Nitrobenzene-d5		93	22-109
Phenol-d5		86	33-122
Terphenyl-d14		94	41-120
2,4,6-Tribromophenol	N	136	30-117

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

PCBs by GC - MB

Sample ID: WQ20067-001
Batch: 20067
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 10/25/2021 1657
Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aroclor 1016	0.010	U	1	0.010	0.0027	mg/kg	10/27/2021 1104
Aroclor 1221	0.010	U	1	0.010	0.0023	mg/kg	10/27/2021 1104
Aroclor 1232	0.010	U	1	0.010	0.0021	mg/kg	10/27/2021 1104
Aroclor 1242	0.010	U	1	0.010	0.0016	mg/kg	10/27/2021 1104
Aroclor 1248	0.010	U	1	0.010	0.0041	mg/kg	10/27/2021 1104
Aroclor 1254	0.010	U	1	0.010	0.0025	mg/kg	10/27/2021 1104
Aroclor 1260	0.010	U	1	0.010	0.0025	mg/kg	10/27/2021 1104
Aroclor 1262	0.010	U	1	0.010	0.0021	mg/kg	10/27/2021 1104
Aroclor 1268	0.010	U	1	0.010	0.0014	mg/kg	10/27/2021 1104

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		86	41-132
Tetrachloro-m-xylene		66	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

PCBs by GC - LCS

Sample ID: WQ20067-002
Batch: 20067
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 10/25/2021 1657
Cleanup: 3660B/3665A

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aroclor 1016	0.10	0.075		1	75	70-130	10/28/2021 1056
Aroclor 1260	0.10	0.077		1	77	70-130	10/28/2021 1056

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		78	41-132
Tetrachloro-m-xylene		50	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MB

Sample ID: WQ20128-001
Batch: 20128
Analytical Method: 6020B

Matrix: Solid
Prep Method: 3050B
Prep Date: 10/27/2021 0915

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aluminum	10	U	1	10	2.5	mg/kg	11/02/2021 1849
Antimony	0.50	U	1	0.50	0.20	mg/kg	11/02/2021 1849
Arsenic	0.50	U	1	0.50	0.20	mg/kg	11/02/2021 1849
Barium	1.3	U	1	1.3	0.31	mg/kg	11/02/2021 1849
Beryllium	0.10	U	1	0.10	0.034	mg/kg	11/04/2021 0434
Cadmium	0.13	U	1	0.13	0.025	mg/kg	11/02/2021 1849
Calcium	100	U	1	100	30	mg/kg	11/02/2021 1849
Chromium	1.3	U	1	1.3	0.55	mg/kg	11/02/2021 1849
Cobalt	1.3	U	1	1.3	0.30	mg/kg	11/02/2021 1849
Copper	1.3	U	1	1.3	0.33	mg/kg	11/02/2021 1849
Iron	13	U	1	13	2.5	mg/kg	11/02/2021 1849
Lead	0.25	U	1	0.25	0.068	mg/kg	11/02/2021 1849
Magnesium	100	U	1	100	25	mg/kg	11/02/2021 1849
Manganese	1.3	U	1	1.3	0.36	mg/kg	11/02/2021 1849
Nickel	1.3	U	1	1.3	0.30	mg/kg	11/02/2021 1849
Potassium	100	U	1	100	25	mg/kg	11/02/2021 1849
Selenium	1.3	U	1	1.3	0.47	mg/kg	11/02/2021 1849
Silver	0.25	U	1	0.25	0.060	mg/kg	11/02/2021 1849
Sodium	100	U	1	100	37	mg/kg	11/02/2021 1849
Thallium	0.13	U	1	0.13	0.030	mg/kg	11/02/2021 1849
Vanadium	1.3	U	1	1.3	0.25	mg/kg	11/02/2021 1849
Zinc	2.5	U	1	2.5	0.50	mg/kg	11/02/2021 1849

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - LCS

Sample ID: WQ20128-002
Batch: 20128
Analytical Method: 6020B

Matrix: Solid
Prep Method: 3050B
Prep Date: 10/27/2021 0915

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aluminum	50	56		1	111	80-120	11/02/2021 1857
Antimony	50	55		1	109	80-120	11/02/2021 1857
Arsenic	50	51		1	102	80-120	11/02/2021 1857
Barium	50	56		1	111	80-120	11/02/2021 1857
Beryllium	50	50		1	100	80-120	11/04/2021 0442
Cadmium	50	51		1	103	80-120	11/02/2021 1857
Calcium	500	560		1	112	80-120	11/02/2021 1857
Chromium	50	54		1	109	80-120	11/02/2021 1857
Cobalt	50	55		1	111	80-120	11/02/2021 1857
Copper	50	56		1	113	80-120	11/02/2021 1857
Iron	500	530		1	105	80-120	11/02/2021 1857
Lead	50	48		1	97	80-120	11/02/2021 1857
Magnesium	500	540		1	107	80-120	11/04/2021 0442
Manganese	50	54		1	108	80-120	11/02/2021 1857
Nickel	50	56		1	111	80-120	11/02/2021 1857
Potassium	500	550		1	110	80-120	11/04/2021 0442
Selenium	50	48		1	96	80-120	11/02/2021 1857
Silver	50	51		1	103	80-120	11/02/2021 1857
Sodium	500	530		1	106	80-120	11/04/2021 0442
Thallium	50	55		1	110	80-120	11/02/2021 1857
Vanadium	50	55		1	110	80-120	11/02/2021 1857
Zinc	50	50		1	100	80-120	11/02/2021 1857

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MB

Sample ID: WQ20129-001
Batch: 20129
Analytical Method: 6020B

Matrix: Solid
Prep Method: 3050B
Prep Date: 10/27/2021 0915

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aluminum	10	U	1	10	2.5	mg/kg	11/08/2021 1350
Antimony	0.50	U	1	0.50	0.20	mg/kg	11/08/2021 1350
Arsenic	0.50	U	1	0.50	0.20	mg/kg	11/08/2021 1350
Barium	1.3	U	1	1.3	0.31	mg/kg	11/08/2021 1350
Beryllium	0.10	U	1	0.10	0.034	mg/kg	11/08/2021 1350
Cadmium	0.13	U	1	0.13	0.025	mg/kg	11/08/2021 1350
Calcium	100	U	1	100	30	mg/kg	11/08/2021 1350
Chromium	1.3	U	1	1.3	0.55	mg/kg	11/08/2021 1350
Cobalt	1.3	U	1	1.3	0.30	mg/kg	11/08/2021 1350
Copper	1.3	U	1	1.3	0.33	mg/kg	11/08/2021 1350
Iron	13	U	1	13	2.5	mg/kg	11/08/2021 1350
Lead	0.25	U	1	0.25	0.068	mg/kg	11/08/2021 1350
Magnesium	100	U	1	100	25	mg/kg	11/08/2021 1350
Manganese	1.3	U	1	1.3	0.36	mg/kg	11/08/2021 1350
Nickel	1.3	U	1	1.3	0.30	mg/kg	11/08/2021 1350
Potassium	100	U	1	100	25	mg/kg	11/08/2021 1350
Selenium	1.3	U	1	1.3	0.47	mg/kg	11/08/2021 1350
Silver	0.25	U	1	0.25	0.060	mg/kg	11/08/2021 1350
Sodium	100	U	1	100	37	mg/kg	11/08/2021 1350
Thallium	0.13	U	1	0.13	0.030	mg/kg	11/08/2021 1350
Vanadium	1.3	U	1	1.3	0.25	mg/kg	11/08/2021 1350
Zinc	2.5	U	1	2.5	0.50	mg/kg	11/08/2021 1350

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - LCS

Sample ID: WQ20129-002
Batch: 20129
Analytical Method: 6020B

Matrix: Solid
Prep Method: 3050B
Prep Date: 10/27/2021 0915

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aluminum	50	49		1	98	80-120	11/08/2021 1352
Antimony	50	49		1	98	80-120	11/08/2021 1352
Arsenic	50	51		1	101	80-120	11/08/2021 1352
Barium	50	48		1	97	80-120	11/08/2021 1352
Beryllium	50	52		1	104	80-120	11/08/2021 1352
Cadmium	50	52		1	104	80-120	11/08/2021 1352
Calcium	500	460		1	92	80-120	11/08/2021 1352
Chromium	50	52		1	104	80-120	11/08/2021 1352
Cobalt	50	51		1	102	80-120	11/08/2021 1352
Copper	50	55		1	110	80-120	11/08/2021 1352
Iron	500	500		1	100	80-120	11/08/2021 1352
Lead	50	49		1	98	80-120	11/08/2021 1352
Magnesium	500	500		1	100	80-120	11/08/2021 1352
Manganese	50	51		1	103	80-120	11/08/2021 1352
Nickel	50	53		1	106	80-120	11/08/2021 1352
Potassium	500	500		1	99	80-120	11/08/2021 1352
Selenium	50	49		1	98	80-120	11/08/2021 1352
Silver	50	50		2	100	80-120	11/08/2021 1354
Sodium	500	540		1	107	80-120	11/08/2021 1352
Thallium	50	52		1	103	80-120	11/08/2021 1352
Vanadium	50	52		1	103	80-120	11/08/2021 1352
Zinc	50	51		1	103	80-120	11/08/2021 1352

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MB

Sample ID: WQ20140-001
Batch: 20140
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 11/01/2021 1211

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Mercury	0.083	U	1	0.083	0.020	mg/kg	11/02/2021 1315

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - LCS

Sample ID: WQ20140-002
Batch: 20140
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 11/01/2021 1211

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Mercury	0.83	0.85		1	102	80-120	11/02/2021 1317

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MS

Sample ID: WJ21078-005MS
Batch: 20140
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 11/01/2021 1211

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Mercury	0.0	0.91	0.97		1	107	80-120	11/02/2021 1333

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MSD

Sample ID: WJ21078-005MD
Batch: 20140
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 11/01/2021 1211

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Mercury	0.0	0.87	0.91		1	105	6.3	80-120	20	11/02/2021 1336

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Chain of Custody
and
Miscellaneous Documents

CHAIN OF CUSTODY RECORD

10/20/21

Laboratory: Pace Analytical Services, LLC (formerly Shealy), 106 Vantage Point Drive, West Columbia, SC 29172 Project Manager Carrie Dowell (803) 227-3160

Client: Lynchburg EDA, Vantage Update
Attn:
Address: 900 Church St, Lynchburg, VA
Phone: (434) 455-4402
Fax:

Consultant: Cooper Aden Associates
Attn: Jared C. Frazier
Address: 2200 South Main Street, Blacksburg, Virginia 24060
Phone: (540) 552-2444
Fax: (540) 552-6295

Former Intermet/Lynchburg Foundry Site
1601 Concord Turnpike
Lynchburg, VA
Phase II ESA
B12188B-10HM

Project Specific RL's or Batch QC:
Start COC Section for Project Complete? YES
Center:
TSDF/SS Number:

Box 1: Matrix
SW Surface Water
GW Groundwater
L Leachate
S Soil
T Trip Blank
E Equipment Blank
P Product
O Other

Box 2: Preservative
A HCl
B HNO_3
C H_2SO_4
D $NaOH_2O_3$
E NaOH
F Zinc
G Other (Specify)
H None

Box 3: Container
V VOA
OG Other Glass

SW 4: Sample Type
G Grab
C Composite

SW 5:
Copy to Consultant: YES
DE: Consultant OTHER
Preserved and shipped on ice: YES

Box 4 - Sample Type	G	G	G	G	G	G	G
Box 3 - If Sample Filtered							
Received pH of Sample							
Box 2 - Preservative	C	H	H	H	H	H	H
Box 3 - Sample Container Type	1-40mV	2-40mV	1-liter	1-liter Clear			

Sample ID	Date: 2021	Time	Box 1: Matrix	Number of Bottles	TAL VOAs 8260B/5035/5035 w/ methanol	TAL VOAs 5035/5035 w/ DI Water (as needed)	VOA Vial for screening	Dry Weight (Moisture)	TAL 8270D/3546 - Semi Volatiles including PAHs (See attached analyte list)	TAL 6020/7471B/9056B - Total Metals (TAL) W/ Hg AND CYANIDE 9012B	TAL PCBs 8082A/3546 (microwave)	SOIL SAMPLING INTERVAL
BMW1-1	10/20	11:50	S	6	X	X	X	X	X	X	X	0'-1'
BMW1-2	10/20	11:50	S	6	X	X	X	X	X	X	X	11'-12'
B1-1			S	6	X	X	X	X	X	X		
B1-2			S	6	X	X	X	X	X	X		
BMW2-1	10/20	13:15	S	6	X	X	X	X	X	X		0'-1'
BMW2-2	10/20	13:20	S	6	X	X	X	X	X	X		14'-15'
B2-1			S	6	X	X	X	X	X	X	X	
B2-2			S	6	X	X	X	X	X	X	X	
B3-1			S	6	X	X	X	X	X	X		
B3-2			S	6	X	X	X	X	X	X		
B4-1			S	6	X	X	X	X	X	X	X	
B4-2			S	6	X	X	X	X	X	X	X	
B5-2			S	6	X	X	X	X	X	X		
B6-1	10/20	16:25	S	6	X	X	X	X	X	X		0'-1'
B6-2	10/20	16:30	S	6	X	X	X	X	X	X		6'-7'

GENERAL NOTES:
1. Full deliverable with EF EDD (electronic report only).
2. Report DL/RL and estimated results.
3. VELAP Added Blank required.
4. See attached target analyte lists.
5. Report results in mg/kg.
6. Report on a dry weight basis.
7. 8260D/5035A (1) VOA with methanol and (3) VOAs with DI Water.
8. Report to lowest limits where possible for Incremental (Method 8260D).
9. EPA Brownfield Project

WJ21078

COD

Client Special Instructions:

Received by Lab in Good Condition ✓ Yes ___ No Custody Seal Intact ✓ Yes ___ No Temperature upon arrival 4.2 / 3.6 Received on Ice ✓ Yes ___ No
Transfer problems, Why

Sampler Name (Print): Hallyn Bussey	Date: 10/20/21	#1 Relinquished by (Signature):	Date: 10/20/21	#2 Relinquished by (Signature): UPS	Date: 10/21/21	Sample Storage Time Required	
Sampler Signature:	Time: 0900	Company Name: DAA	Time: 17:30	Company Name:	Time: 0925		
Sampler Name (Print): Ethan T. Truman	Date: 10/21/21	#1 Received by (Signature):	Date:	#2 Received by (Signature):	Date: 10/21/21	23 DHS ORGANICS 6-5-23	
Sampler Signature:	Time: 0900	Company Name:	Time:	Company Name: Pace	Time: 0925		

Exhibit C - Section 3

TABLE 3. SEMIVOLATILES TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS[a] (CON'T)

Analyte Name	CAS Number	Low Water By SIM[b] (µg/L)	CRQLs Low Water[i] (µg/L)	CRQLs Low Soil By SIM[g,h] (µg/kg)	CRQLs Low Soil[g] (µg/kg)	CRQLs Med. Soil[g] (µg/kg)
Fluorene[F]	86-73-7	0.10	5.0	3.3	170	5000
4-Chlorophenyl-phenyl ether	7005-72-3		5.0		170	5000
4-Nitroaniline	100-01-6		10		330	10000
4,6-Dinitro-2-methylphenol	534-52-1		10		330	10000
N-Nitrosodiphenylamine	86-30-6		5.0		170	5000
1,2,4,5-Tetrachlorobenzene	95-94-3		5.0		170	5000
4-Bromophenyl-phenylether	101-55-3		5.0		170	5000
Hexachlorobenzene[C]	118-74-1		5.0		170	5000
8270E Atrazine	1912-24-9		10		330	10000
Pentachlorophenol[C,F]	87-86-5	0.20	10	6.7	330	10000
Phenanthrene[C,F]	85-01-8	0.10	5.0	3.3	170	5000
Anthracene[F]	120-12-7	0.10	5.0	3.3	170	5000
Carbazole	86-74-8		10		330	10000
Di-n-butylphthalate	84-74-2		5.0		170	5000
Fluoranthene[F]	206-44-0	0.10	10	3.3	330	10000
Pyrene[F]	129-00-0	0.10	5.0	3.3	170	5000
Butylbenzylphthalate	85-68-7		5.0		170	5000
3,3'-Dichlorobenzidine	91-94-1		10		330	10000
Benzo(a)anthracene[F]	56-55-3	0.10	5.0	3.3	170	5000
Chrysene[F]	218-01-9	0.10	5.0	3.3	170	5000
Bis(2-ethylhexyl)phthalate	117-81-7		5.0		170	5000
Di-n-octylphthalate	117-84-0		10		330	10000
Benzo(b)fluoranthene[F]	205-99-2	0.10	5.0	3.3	170	5000
Benzo(k)fluoranthene[F]	207-08-9	0.10	5.0	3.3	170	5000
Benzo(a)pyrene[F]	50-32-8	0.10	5.0	3.3	170	5000
Indeno(1,2,3-cd)pyrene[F]	193-39-5	0.10	5.0	3.3	170	5000
Dibenzo(a,h)anthracene[F]	53-70-3	0.10	5.0	3.3	170	5000
Benzo(g,h,i)perylene[F]	191-24-2	0.10	5.0	3.3	170	5000
2,3,4,6-Tetrachlorophenol	58-90-2		5.0		170	5000

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Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Exhibit C – Sections 4-5

4.0 PESTICIDES TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS

TABLE 4. PESTICIDES TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS[A,G]

Analyte Name	CAS Number	CRQLs Water (µg/L)	CRQLs Soil[B] (µg/kg)
alpha-BHC	319-84-6	0.050	1.7
beta-BHC	319-85-7	0.050	1.7
delta-BHC	319-86-8	0.050	1.7
gamma-BHC (Lindane)[C]	58-89-9	0.050	1.7
Heptachlor[C]	76-44-8	0.050	1.7
Aldrin	309-00-2	0.050	1.7
Heptachlor epoxide[C,H]	1024-57-3	0.050	1.7
Endosulfan I	959-98-8	0.050	1.7
Dieldrin	60-57-1	0.10	3.3
4,4'-DDE	72-55-9	0.10	3.3
Endrin[C]	72-20-8	0.10	3.3
Endosulfan II	33213-65-9	0.10	3.3
4,4'-DDD	72-54-8	0.10	3.3
Endosulfan sulfate	1031-07-8	0.10	3.3
4,4'-DDT	50-29-3	0.10	3.3
Methoxychlor[C]	72-43-5	0.50	17
Endrin ketone	53494-70-5	0.10	3.3
Endrin aldehyde	7421-93-4	0.10	3.3
cis-Chlordane[C,J]	5103-71-9	0.050	1.7
trans-Chlordane[C,J]	5103-74-2	0.050	1.7
Toxaphene[C]	8001-35-2	5.0	170

5.0 AROCLORS TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS

TABLE 5. AROCLORS TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS[G]

Analyte Name	CAS Number	CRQLs Water (µg/L)	CRQLs Soil[B] (µg/kg)
Aroclor-1016	12674-11-2	1.0	33
Aroclor-1221	11104-28-2	1.0	33
Aroclor-1232	11141-16-5	1.0	33
Aroclor-1242	53469-21-9	1.0	33
Aroclor-1248	12672-29-6	1.0	33
Aroclor-1254	11097-69-1	1.0	33
Aroclor-1260	11096-82-5	1.0	33
Aroclor-1262	37324-23-5	1.0	33
Aroclor-1268	11100-14-4	1.0	33

8082A

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CHAIN OF CUSTODY RECORD

Laboratory: Pace Analytical Services, LLC (formerly Shealy) 106 Vantage Point Drive, West Columbia, SC 29172 Project Manager Cathy Dover (803) 227-3150

Client: Lynchburg EDA Attn: Marjette Upshur Address: 900 Church St. Lynchburg, VA Phone: (434) 455-4482 Fax:	Consultant: Draper Aden Associates Attn: James G. Frazier Address: 2206 South Main Street Blacksburg, Virginia 24060 Phone: (540) 552-0444 Fax: (540) 552-0291	Former Intermet/Lynchburg Foundry Site 1851 Concord Tnpk Lynchburg, VA Phase II ESA B12188B-10HM	Project Specific (PS) or Batch (B) QC: Sample Collection for Project Complete? NO Carrier: ____ Tracking Number: ____

Box 1: Matrix — SW Surface Water; GW Groundwater; L Leachate; S Soil; T Trip Blank; E Equipment Blank; P Product; O Other

Box 2: Preservative — A HCl; B HNO_3; C H_2SO_4; D $Na_2S_2O_3$; E NaOH; F ZnAc; G Other (Specify); H None

Box 4: G Glass; V VOA; CG Clear Glass

Box 5: Sample Type — G Grab; C Composite

Invoice: Copy to Consultant: YES; EDD: Consultant OTHER ____; Preserved and shipped on ice: YES

GENERAL NOTES:

1. Full deliverable with BF EDD (electronic report only).
2. Report DL/QL and estimated results.
3. VELAP Accreditation required.
4. See attached target analyte lists.
5. Report results in mg/kg.
6. Report on a dry weight basis.
8260D/5035 (1) VOA with methanol and (2) VOAs with DI Water.
8. Report to lowest limits where possible for inorganics (Method 6010B).
9. EPA Brownfield Project
7.

WJ21078

Sample ID	Date: 2021	Time	Box 1: Matrix	Number of Bottles	TAL VOAs 8260D w/ methanol	TAL VOAs 8260D w/ DI Water (as needed)	VOA Vial for screening	Dry Weight (Moisture)	TAL 8270E/3546 - Semivolatiles including PAHs (See attached analyte list)	TAL 6020B/7471B/6010D - Total Metals (TAL) W/ Hg and CYANIDE 9012B	TAL PCBs 8082A/3546 (microwave)	VOCs - TAL List 8260D XLL/8030B	
Box 4 - Sample Type					G	G	G	G	C	G	G		
Box 3 - Filtered/Unfiltered												U	
Required pH of Sample												<2	
Box 2 - Preservative					G	H	H	H	H	H	H	A	
Box 4 - Sample Container Type					1-40mlV	2-40mlV	1-4oz	1-8oz Glass				2-40ml VOC	
B7-1	10/20	14:20	S	6	X	X	X	X	X	X	X		SOIL SAMPLING INTERVAL = 0'-2'
B7-2	10/20	14:25	S	6	X	X	X	X	X	X	X		SOIL SAMPLING INTERVAL = 10'-12'
B8-1	10/20	15:00	S	5	X	X	X	X	X	X			SOIL SAMPLING INTERVAL = 1'-2'
B8-2	10/20	15:05	S	6	X	X	X	X	X	X			SOIL SAMPLING INTERVAL = 9'-10' * petroleum odor
B9-1	10/20	15:40	S	6	X	X	X	X	X	X			SOIL SAMPLING INTERVAL = 0'-1'
B9-2	10/20	15:45	S	6	X	X	X	X	X	X			SOIL SAMPLING INTERVAL = 9'-10'
B10-1			S	6	X	X	X	X	X	X			SOIL SAMPLING INTERVAL =
B10-2			S	6	X	X	X	X	X	X			SOIL SAMPLING INTERVAL =
B11-1			S	6	X	X	X	X	X	X			SOIL SAMPLING INTERVAL =
B11-2			S	6	X	X	X	X	X	X			SOIL SAMPLING INTERVAL =
B12-1			S	6	X	X	X	X	X	X			SOIL SAMPLING INTERVAL =
B12-2			S	5	X	X	X	X	X	X			SOIL SAMPLING INTERVAL =
Trip Blank 1			T	2								X	ONE PER DAY
Trip Blank 2			T	2								X	ONE PER DAY

Client special instructions:

Received by lab in Good Condition ✓ Yes ___ No; Custody Seal Intact ✓ Yes ___ No; Temperature upon arrival 4.6/3.1°C; Received on Ice ✓ Yes ___ No

Describe problems, if any:

Sampler Name (Print): Hellem Baxley Sampler Signature: [signature]	Date: 10/20/21 Time: 0900	#1 Relinquished by (Signature): [signature] Company: DAA Date: 10/20/21 Time: 17:30	#2 Relinquished by (Signature): UPS Company: Date: 10/21/21 Time: 0925
Sampler Name (Print): Ethan T. Truman Sampler Signature: [signature]	Date: 10/20/21 Time: 0900	#1 Received by (Signature): Company: Date: Time:	#2 Received by (Signature): [signature] Company: Pace Date: 10/21/21 Time: 0925

Sample Storage: 30 DAYS DRAW UNLESS NOTED

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
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Sample Receipt Checklist (SRC)

Client: Draper Cooler Inspected by/date: KDRW / 10/21/2021 Lot #: WJ21078

Means of receipt: ☐ Pace ☐ Client ☑ UPS ☐ FedEx ☐ Other:

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 21-1928

4.6 / 4.6 °C 3.1 / 3.1 °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☐ No	☑ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: KDRW Date: 10/21/2021

Comments: Missing: 1 set of Trip blanks

COC REVISED PER HB 10/22/21 Revised COC

CHAIN OF CUSTODY RECORD

Laboratory: Pace Analytical Services, LLC (formerly Shealy) 106 Vantage Point Drive, West Columbia, SC 29172 Project Manager Cathy Powell (803) 791-9700

Former Internet/Lynchburg Foundry Site
1851 Concord Trnpk
Lynchburg, VA
Phase II ESA
B121888-10MM

Project Specific Limits or Project Checklist: Yes

Carrier: ____ Tracking Number: ____

Cooler: ____

Copy to Consultant: Yes
Consultant: KCS
Other: ____
Preserved and shipped on ice: Yes

Sample Type: G Grab, C Composite

Sample Matrix: S Soil, SL Sludge, W Water, OL Oil, A Air, O Other

Box 1 - Matrix: WW Wastewater, GW Groundwater, L Liquids, S Soil, Other

Box 2 - Preservative: A None, B HCl, C HNO3, D H2SO4, E NaOH, F Other (Specify), G None

Box 3 - Preservative Forms: Received on Ice, Received on Sample

Box 4 - Temperature

Box 5 - Sample Container Type: G Glass, P Plastic, V VOA, O Other

GENERAL NOTES:
1. Not deliverable with SF EDD (electronic report only).
2. Report DL/QL and estimated results.
3. VELAP Accreditation required.
4. See attached target analyte list.
5. Report results to mg/kg.
6. Report on a dry weight basis.
7. Report VOCs, (1) VOA with methanol and (2) VOAs with DI Water.
8. Report to lowest limits where possible for frequencies (Method 8260B).
9. Silverbrook Field Project.

Sample ID	Date: 2021	Time	Grab or Matrix	Number of Bottles	TAL VOAs 8260B/8260 w/ methanol	TAL VOAs 8260B/8260 w/ DI Water (as needed)	VOA Vial for screening	Oxygen Weight (Methane)	TAL 8270B/8260 - Semi volatile identifying PAHs (Gen organics analyte list)	TAL Metals (TAL) Hg & As CYANIDE 9012B	TAL PCBS 8082A/8646 (Interferences)	SOIL SAMPLING INTERVAL =
BMW1-1	10/20	11:50	G	4	X	X	X	X	X	X	X	0'-1'
BMW1-2	10/20	11:50	G	4	X	X	X	X	X	X	X	11'-12'
B1-1	10/20	11:50	G	4	X	X	X	X	X	X		
B1-2			G	4	X	X	X	X	X	X		
BMW2-1	10/20	13:15	G	4	X	X	X	X	X	X		
BMW2-2	10/20	13:20	G	4	X	X	X	X	X	X		
B2-1			G	4	X	X	X	X	X	X	X	
B2-2			G	4	X	X	X	X	X	X	X	
B3-1			G	4	X	X	X	X	X	X		
B3-2			G	4	X	X	X	X	X	X		
B4-1			G	4	X	X	X	X	X	X	X	
B4-2			G	4	X	X	X	X	X	X	X	
B5-2			G	4	X	X	X	X	X	X	X	
B6-1	10/20	16:25	G	4	X	X	X	X	X	X	X	0'-1'
B6-2	10/20	16:30	G	4	X	X	X	X	X	X	X	6'-7'

Check Special Instructions: ____

Received by Non-Shealy Sampler: Yes ____ No ____ Date/Time Received: ____ Received at Lab: Yes ____ No ____

Description of Items Sent: ____

Sample Name (Print): Hallie Bishop	Date: 10/20/21	R1 Relinquished by (Signature):	Date: 10/20/21	R2 Relinquished by (Signature):	Date:	R3 Relinquished by (Signature):	Date:
Sampler (Sign):	Time: 0900	Company: DAA	Time: 17:30	Company:	Time:	Company:	Time:
Sampler Name (Print): Ethan T. Truman	Date: 10/20/21	R1 Received by (Signature):	Date:	R2 Received by (Signature):	Date:	R3 Received by (Signature):	Date:
Sampler (Sign):	Time: 0800	Company:	Time:	Company:	Time:	Company:	Time:

Sample Receipt Temperature: ____ Sample Receipt Temperature Acceptable: Yes ____ No ____

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Revised COC

COC REVISED PER HB 10/22/21

CHAIN OF CUSTODY RECORD

Pace Analytical Services, LLC (formerly Shealy) 106 Vantage Point Drive, West Columbia, SC 29172 Project Manager Dave Cover (803) 227-9100

Laboratory:

Former Interwoven/Lynchburg Foundry Site

15651 Concord Turnpike
Lynchburg, VA
Phase II ESA
B12180-10BM

Sample ID	Date 2021	Time	Box 1: Matrix	Container ID/Size	TAL VOAs 8260B/8260D w/ Alcohols	TAL VOAs 5035/8260B w/ DI Water (as needed)	VOA Vial for screening	Dry Weight (Moisture)	TAL 8270B/8260 - Semi Volatiles including PAHs (See attached analyte list)	TAL Metals (TAL) w/ Hg and CYANIDE 9012B	TAL 8260B/7196B/8082 - Total Metals	TAL PCBs 8082A/1668 (Congeners)	VOCs - TAL List 8260B - SOLL/5030B	SOIL SAMPLING INTERVAL =	SOIL SAMPLING INTERVAL =	SOIL SAMPLING INTERVAL =	SOIL SAMPLING INTERVAL =	SOIL SAMPLING INTERVAL =	SOIL SAMPLING INTERVAL =	SOIL SAMPLING INTERVAL =	SOIL SAMPLING INTERVAL =	SOIL SAMPLING INTERVAL =	SOIL SAMPLING INTERVAL =	SOIL SAMPLING INTERVAL =	SAMPLE DAY	ONE PER DAY
B7-1	10/20	14:20	4	1	X	X	X	X	X	X	X	X	X	0-2'												
B7-2	10/20	14:25	5	2	X	X	X	X	X	X	X	X	X	10-12'												
B8-1	10/20	15:00	6	3	X	X	X	X	X	X	X	X	X	1'-2'												
B8-2	10/20	15:05	7	4	X	X	X	X	X	X	X	X	X	9'-10' * PETROLEUM ODOR												
239-1	10/20	15:40	8	5	X	X	X	X	X	X	X	X	X	0-1'												
B9-2	10/20	15:45	9	6	X	X	X	X	X	X	X	X	X	9'-10'												
B10-1			5	1	X	X	X	X	X	X	X	X	X													
B10-2			5	2	X	X	X	X	X	X	X	X	X													
B11-1			5	1	X	X	X	X	X	X	X	X	X													
B11-2			5	2	X	X	X	X	X	X	X	X	X													
B12-1			6	1	X	X	X	X	X	X	X	X	X													
B12-2			6	2	X	X	X	X	X	X	X	X	X													
Trip Blank 1			7	2																					X	
Trip Blank 2			7	2																					X	

Relinquished by: Hallyn Baxley 10/20/21 Received by: Ethan T. Turner 10/20/21 Relinquished by: Hallyn Baxley 10/20/21 Received by: DAR 10/20/21 Relinquished by: Received by: Relinquished by: Received by:

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Exhibit C – Sections 2-4

2.0 ICP-MS TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS

TABLE 2. ICP-MS TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS[a]

6020B

Analyte Name	CAS Number	CRQL Water (µg/L)	CRQL Soil[b] (mg/kg)
Aluminum	7429-90-5	20	--
Antimony	7440-36-0	2	1
Arsenic	7440-38-2	1	0.5
Barium	7440-39-3	10	5
Beryllium	7440-41-7	1	0.5
Cadmium	7440-43-9	1	0.5
Calcium	7440-70-2	500	--
Chromium	7440-47-3	2	1
Cobalt	7440-48-4	1	0.5
Copper	7440-50-8	2	1
Iron	7439-89-6	200	--
Lead	7439-92-1	1	0.5
Magnesium	7439-95-4	500	--
Manganese	7439-96-5	1	0.5
Nickel	7440-02-0	1	0.5
Potassium	7440-09-7	500	--
Selenium	7782-49-2	5	2.5
Silver	7440-22-4	1	0.5
Sodium	7440-23-5	500	--
Thallium	7440-28-0	1	0.5
Vanadium	7440-62-2	5	2.5
Zinc	7440-66-6	2	1

3.0 MERCURY BY COLD VAPOR ATOMIC ABSORPTION TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS

TABLE 3. MERCURY BY COLD VAPOR ATOMIC ABSORPTION TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS

7471B

Analyte Name	CAS Number	CRQL Water[b] (µg/L)	CRQL Soil[a] (mg/kg)	TCLP (mg/L)
Mercury	7439-97-6	0.2	0.1	0.2

4.0 CYANIDE BY SPECTROPHOTOMETRY TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS

TABLE 4. CYANIDE BY SPECTROPHOTOMETRY TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS

9012B

Analyte Name	CAS Number	CRQL Water[b] (µg/L)	CRQL Soil[a] (mg/kg)
Cyanide	57-12-5	10	0.5

1.0 TRACE VOLATILES TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS

TABLE 1. TRACE VOLATILES TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS[a]

Analyte Name	CAS Number	CRQLs Trace Water (µg/L)
Dichlorodifluoromethane	75-71-8	0.50
Chloromethane	74-87-3	0.50
Vinyl chloride	75-01-4	0.50
Bromomethane	74-83-9	0.50
Chloroethane	75-00-3	0.50
8260D		
Trichlorofluoromethane	75-69-4	0.50
1,1-Dichloroethene	75-35-4	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0.50
Acetone	67-64-1	5.0
Carbon disulfide	75-15-0	0.50
Methyl acetate	79-20-9	0.50
Methylene chloride	75-09-2	0.50
trans-1,2-Dichloroethene	156-60-5	0.50
Methyl tert-butyl ether	1634-04-4	0.50
1,1-Dichloroethane	75-34-3	0.50
cis-1,2-Dichloroethene	156-59-2	0.50
2-Butanone	78-93-3	5.0
Bromochloromethane	74-97-5	0.50
Chloroform	67-66-3	0.50
1,1,1-Trichloroethane	71-55-6	0.50
Cyclohexane	110-82-7	0.50
Carbon tetrachloride	56-23-5	0.50
Benzene	71-43-2	0.50
1,2-Dichloroethane	107-06-2	0.50
Trichloroethene	79-01-6	0.50
Methylcyclohexane	108-87-2	0.50
1,2-Dichloropropane	78-87-5	0.50
Bromodichloromethane	75-27-4	0.50
cis-1,3-Dichloropropene	10061-01-5	0.50
4-Methyl-2-pentanone	108-10-1	5.0
Toluene	108-88-3	0.50
trans-1,3-Dichloropropene	10061-02-6	0.50
1,1,2-Trichloroethane	79-00-5	0.50
Tetrachloroethene	127-18-4	0.50

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Exhibit C – Sections 1-2

TABLE 1. TRACE VOLATILES TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS[a] (CON'T)

Analyte Name	CAS Number	CRQLs Trace Water (µg/L)
2-Hexanone	591-78-6	5.0
Dibromochloromethane	124-48-1	0.50
1,2-Dibromoethane	106-93-4	0.50
Chlorobenzene	108-90-7	0.50
Ethylbenzene	100-41-4	0.50
o-Xylene	95-47-6	0.50
m,p-Xylene	179601-23-1	0.50
Styrene	100-42-5	0.50
8260D Bromoform	75-25-2	0.50
Isopropylbenzene	98-82-8	0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50
1,3-Dichlorobenzene	541-73-1	0.50
1,4-Dichlorobenzene	106-46-7	0.50
1,2-Dichlorobenzene	95-50-1	0.50
1,2-Dibromo-3-chloropropane	96-12-8	0.50
1,2,4-Trichlorobenzene	120-82-1	0.50
1,2,3-Trichlorobenzene	87-61-6	0.50

2.0 LOW/MEDIUM VOLATILES TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS

TABLE 2. LOW/MEDIUM VOLATILES TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS[A]

Analyte Name	CAS Number	CRQLs Low Water[1] (µg/L)	CRQLs Low Soil[B] (µg/kg)	CRQLs Medium Soil[B] (µg/kg)
Dichlorodifluoromethane	75-71-8	5.0	5.0	250
Chloromethane	74-87-3	5.0	5.0	250
Vinyl chloride[C]	75-01-4	5.0	5.0	250
Bromomethane	74-83-9	5.0	5.0	250
Chloroethane	75-00-3	5.0	5.0	250
Trichlorofluoromethane	75-69-4	5.0	5.0	250
1,1-Dichloroethene[C]	75-35-4	5.0	5.0	250
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.0	5.0	250
Acetone	67-64-1	10	10	500
Carbon disulfide	75-15-0	5.0	5.0	250
Methyl acetate	79-20-9	5.0	5.0	250
Methylene chloride	75-09-2	5.0	5.0	250
trans-1,2-Dichloroethene	156-60-5	5.0	5.0	250
Methyl tert-butyl ether	1634-04-4	5.0	5.0	250
1,1-Dichloroethane	75-34-3	5.0	5.0	250

Exhibit C - Section 3

3.0 SEMIVOLATILES TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS

TABLE 3. SEMIVOLATILES TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS[A]

Analyte Name	CAS Number	CRQLs Low Water By SIM[D] (µg/L)	Low Water[I] (µg/L)	Low Soil By SIM[B,D] (µg/kg)	Low Soil[B] (µg/kg)	Med. Soil[B] (µg/kg)
1,4-Dioxane	123-91-1		2.0		67	2000
Benzaldehyde	100-52-7		10		330	10000
Phenol	108-95-2		10		330	10000
Bis(2-chloroethyl) ether	111-44-4		10		330	10000
8270E 2-Chlorophenol	95-57-8		5.0		170	5000
2-Methylphenol[C]	95-48-7		10		330	10000
3-Methylphenol[C,K]	108-39-4		5.0			
2,2'-Oxybis(1-chloropropane)[K]	108-60-1		10		330	10000
Acetophenone	98-86-2		10		330	10000
4-Methylphenol[A,C]	106-44-5		10		330	10000
N-Nitroso-di-n propylamine	621-64-7		5.0		170	5000
Hexachloroethane[C]	67-72-1		5.0		170	5000
Nitrobenzene[C]	98-95-3		5.0		170	5000
Isophorone	78-59-1		5.0		170	5000
2-Nitrophenol	88-75-5		5.0		170	5000
2,4-Dimethylphenol	105-67-9		5.0		170	5000
Bis(2-chloroethoxy)methane	111-91-1		5.0		170	5000
2,4-Dichlorophenol	120-83-2		5.0		170	5000
Naphthalene[F]	91-20-3	0.10	5.0	3.3	170	5000
4-Chloroaniline	106-47-8		10		330	10000
Hexachlorobutadiene[C]	87-68-3		5.0		170	5000
Caprolactam	105-60-2		10		330	10000
4-Chloro-3-methylphenol	59-50-7		5.0		170	5000
2-Methylnaphthalene[F]	91-57-6	0.10	5.0	3.3	170	5000
Hexachlorocyclo-pentadiene	77-47-4		10		330	10000
2,4,6-Trichlorophenol[C]	88-06-2		5.0		170	5000
2,4,5-Trichlorophenol[C]	95-95-4		5.0		170	5000
1,1'-Biphenyl	92-52-4		5.0		170	5000
2-Chloronaphthalene	91-58-7		5.0		170	5000
2-Nitroaniline	88-74-4		5.0		170	5000
Dimethylphthalate	131-11-3		5.0		170	5000
2,6-Dinitrotoluene	606-20-2		5.0		170	5000
Acenaphthylene[F]	208-96-8	0.10	5.0	3.3	170	5000
3-Nitroaniline	99-09-2		10		330	10000
Acenaphthene[F]	83-32-9	0.10	5.0	3.3	170	5000
2,4-Dinitrophenol	51-28-5		10		330	10000
4-Nitrophenol	100-02-7		10		330	10000
Dibenzofuran	132-64-9		5.0		170	5000
2,4-Dinitrotoluene[C]	121-14-2		5.0		170	5000
Diethylphthalate	84-66-2		5.0		170	5000

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Report of Analysis

Draper Aden Associates
2206 South Main Street
Blacksburg, VA 24060
Attention: Janet Frazier

Project Name: Former Intermet-Lynchburg Foundry Site- Phase II ESA

Project Number: B12188B-10HM

Lot Number:**WJ22078**

Date Completed:12/13/2021

12/19/2021 8:50 PM
Approved and released by:
Project Manager II: **Cathy S. Dover**

The electronic signature above is the equivalent of a handwritten signature.
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Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

Case Narrative
Draper Aden Associates
Lot Number: WJ22078

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation:

Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, Fecal Coliform SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, Solid Chemical Material: TOC Walkley-Black.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

VOA 8260D

The continuing calibration verification (CCV) associated with analytical batch 20033 recovered outside acceptance criteria, low biased, for Freon 113 (-22.4%), cyclohexane (-22.5%), and methylcyclohexane (-22.4%). An LOQ standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect, no corrective action was taken.

Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 10% of analytes to recover marginally outside criteria. The following analytes recovered marginally outside LCS criteria (batch 21141; associated sample WJ22078-017 (Trip Blank 2)): MTBE.

The continuing calibration verification (CCV) associated with analytical batch 21141 recovered outside acceptance criteria, low biased, for Freon 113, MTBE and Cyclohexane. An LOQ standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect, no corrective action was taken.

The MS/MSD for batch 20009 and parent sample WJ22078-003 (B2-1), recovered outside control limits for multiple analytes. The associated LCS passed acceptance criteria.

The MS/MSD for batch 20033 and parent sample WJ22078-008 (B4-2), recovered outside control limits for multiple analytes. The associated LCS passed acceptance criteria.

SVOA 8270E

The following samples were diluted due to the nature of the sample matrix: WJ22078-001 (B1-1), WJ22078-003 (B2-1), WJ22078-005 (B3-1), WJ22078-006 (B3-2), WJ22078-007 (B4-1), WJ22078-009 (B5-1), WJ22078-012 (B11-1), WJ22078-014 (B12-1), and WJ22078-015 (B12-2). The LOQ has been elevated to reflect the dilution.

Surrogate recovery for sample WJ22078-004 (B2-2) was outside control limits. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

One surrogate was outside control limits for the dilution analysis for the following samples: WJ22078-001 (B1-1), WJ22078-004 (B3-1), WJ22078-006 (B2-2), WJ22078-007 (B4-1), WJ22078-009 (B5-1.

The method blank associated with batch 21183 had a few analytes detected at a concentration that was above the DL but below the LOQ. All samples associated with this method blank that have detections for these analytes have been flagged with a "B".

The LCS for batch 21183, recovered outside control limit for butylbenzyl phthalate. The associated samples were non-detect for this analyte.

The MS/MSD for batch 21183 and parent sample WJ22078-003 (B2-1), recovered outside control limits for multiple analytes. The associated LCS passed acceptance criteria for these analytes.

The MS/MSD for batch 21183 and parent sample WJ22078-008 (B4-2), recovered outside control limits for Benzyladehyde, 3'3-Dichlorbenzidine & 3-Nitroaniline. The associated LCS passed acceptance criteria for these analytes.

PCB 8082A

The MS/MSD for batch 20067 and parent sample WJ22078-003 (B2-1), recovered outside control limits for 1016. The associated LCS passed acceptance criteria for these analytes.

The MSD for batch 20384 and parent sample WJ22078-008 (B4-2), recovered outside control limits for 1016/1260. The associated LCS and MS passed acceptance criteria.

Metals 6020B

The method blank associated with batch 20772 had Copper detected at a concentration that was above the DL but below the LOQ. All samples associated with this method blank that have detections for Cooper have been flagged with a "B".

The MS/MSD for batch 20129 and parent sample WJ22078-003 (B2-1), recovered outside control limits for multiple elements. The associated LCS passed acceptance criteria.

The MS/MSD for batch 20772 and parent sample WJ22078-008 (B4-2), recovered outside control limits for multiple elements. The associated LCS passed acceptance criteria.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Sample Summary

Draper Aden Associates

Lot Number: WJ22078

Project Name: Former Intermet-Lynchburg Foundry Site- Phase II ESA

Project Number: B12188B-10HM

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	B1-1	Solid	10/21/2021 1515	10/22/2021
002	B1-2	Solid	10/21/2021 1520	10/22/2021
003	B2-1	Solid	10/21/2021 1315	10/22/2021
004	B2-2	Solid	10/21/2021 1320	10/22/2021
005	B3-1	Solid	10/21/2021 1225	10/22/2021
006	B3-2	Solid	10/21/2021 1230	10/22/2021
007	B4-1	Solid	10/21/2021 1120	10/22/2021
008	B4-2	Solid	10/21/2021 1125	10/22/2021
009	B5-1	Solid	10/21/2021 1025	10/22/2021
010	B5-2	Solid	10/21/2021 1030	10/22/2021
011	B10-1	Solid	10/21/2021 1330	10/22/2021
012	B11-1	Solid	10/21/2021 1540	10/22/2021
013	B11-2	Solid	10/21/2021 1545	10/22/2021
014	B12-1	Solid	10/21/2021 1425	10/22/2021
015	B12-2	Solid	10/21/2021 1430	10/22/2021
016	B12-3	Solid	10/21/2021 1435	10/22/2021
017	Trip Blank 2	Aqueous	10/22/2021	10/22/2021

(17 samples)

Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-001	
Description: B1-1		Matrix: Solid	
Date Sampled: 10/21/2021 1515	Project Name: Former Intermet-Lynchburg	% Solids: 73.5	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1654	AAB	11/03/2021 1120	21095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	1.4		0.68	0.27	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-001
Description: B1-1			Matrix: Solid
Date Sampled: 10/21/2021 1515	Project Name: Former Intermet-Lynchburg		% Solids: 73.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1758	JM1		20009	5.67

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.024	U	0.024	0.0096	mg/Kg	1
Benzene	71-43-2	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Bromoform	75-25-2	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0060	U	0.0060	0.0036	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.024	U	0.024	0.0048	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Chloroform	67-66-3	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0060	U	0.0060	0.0036	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0060	U	0.0060	0.0036	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.012	U	0.012	0.0048	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.012	U	0.012	0.0048	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Styrene	100-42-5	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Toluene	108-88-3	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-001
Description: B1-1		Matrix: Solid
Date Sampled: 10/21/2021 1515	Project Name: Former Intermet-Lynchburg	% Solids: 73.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1758	JM1		20009	5.67

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0060	U	0.0060	0.0036	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0060	U	0.0060	0.0024	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		92	47-138
1,2-Dichloroethane-d4		84	53-142
Toluene-d8		95	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-001
Description: B1-1			Matrix: Solid
Date Sampled: 10/21/2021 1515	Project Name: Former Intermet-Lynchburg		% Solids: 73.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1538	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.025	JQD	0.037	0.011	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.020	JQD	0.037	0.013	mg/Kg	1
Acetophenone	98-86-2	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
Anthracene	120-12-7	8270E	0.18	BQD	0.037	0.0069	mg/Kg	1
Atrazine	1912-24-9	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	1.3	QD	0.037	0.0080	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	1.3	BQD	0.037	0.0090	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	1.8	QD	0.037	0.0068	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.85	BQD	0.037	0.0088	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.67	QD	0.037	0.0065	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.18	UQL	0.18	0.068	mg/Kg	1
Caprolactam	105-60-2	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
Carbazole	86-74-8	8270E	0.087	JQD	0.18	0.068	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
Chrysene	218-01-9	8270E	1.8	QD	0.037	0.0061	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.037	UQ	0.037	0.0069	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.18	UQ	0.18	0.10	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.91	UQ	0.91	0.34	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.91	UQ	0.91	0.34	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.45	UQ	0.45	0.14	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.91	UQ	0.91	0.34	mg/Kg	1
Fluoranthene	206-44-0	8270E	2.7	QD	0.037	0.0057	mg/Kg	1
Fluorene	86-73-7	8270E	0.026	JQD	0.037	0.0078	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.18	UQ	0.18	0.068	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-001
Description: B1-1		Matrix: Solid
Date Sampled: 10/21/2021 1515	Project Name: Former Intermet-Lynchburg	% Solids: 73.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1538	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.91	UQ	0.91	0.34	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.73	QD	0.037	0.014	mg/Kg	1
Isophorone	78-59-1	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.037	UQ	0.037	0.013	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
Naphthalene	91-20-3	8270E	0.033	JQD	0.037	0.013	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.91	UQ	0.91	0.34	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.91	UQ	0.91	0.34	mg/Kg	1
Phenanthrene	85-01-8	8270E	1.2	BQD	0.037	0.0098	mg/Kg	1
Phenol	108-95-2	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
Pyrene	129-00-0	8270E	2.7	BQD	0.037	0.0068	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.45	UQ	0.45	0.14	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.91	UQ	0.91	0.14	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.18	UQ	0.18	0.068	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.18	UQ	0.18	0.068	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		85	33-102
2-Fluorophenol		54	35-115
Nitrobenzene-d5		92	22-109
Phenol-d5		68	33-122
Terphenyl-d14		99	41-120
2,4,6-Tribromophenol	N	8.8	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-001
Description: B1-1			Matrix: Solid
Date Sampled: 10/21/2021 1515	Project Name: Former Intermet-Lynchburg		% Solids: 73.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/08/2021 1414	BNW	10/27/2021 0915	20129
1	7471B	7471B	1	11/02/2021 1423	CMS2	11/01/2021 1211	20140
2	3050B	6020B	5	11/08/2021 1532	BNW	10/27/2021 0915	20129
3	3050B	6020B	25	11/09/2021 1533	BNW	10/27/2021 0915	20129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	13000		12	3.0	mg/kg	1
Antimony	7440-36-0	6020B	0.71		0.60	0.24	mg/kg	1
Arsenic	7440-38-2	6020B	7.1		0.60	0.24	mg/kg	1
Barium	7440-39-3	6020B	1400	D	38	9.3	mg/kg	3
Beryllium	7440-41-7	6020B	0.81	D	0.60	0.20	mg/kg	2
Cadmium	7440-43-9	6020B	0.71		0.16	0.030	mg/kg	1
Calcium	7440-70-2	6020B	34000	D	600	180	mg/kg	2
Chromium	7440-47-3	6020B	28		1.5	0.67	mg/kg	1
Cobalt	7440-48-4	6020B	9.0		1.5	0.36	mg/kg	1
Copper	7440-50-8	6020B	46		1.5	0.39	mg/kg	1
Iron	7439-89-6	6020B	29000	D	78	15	mg/kg	2
Lead	7439-92-1	6020B	46		0.30	0.082	mg/kg	1
Magnesium	7439-95-4	6020B	3500		120	30	mg/kg	1
Manganese	7439-96-5	6020B	520	D	7.5	2.2	mg/kg	2
Mercury	7439-97-6	7471B	0.028	J	0.10	0.024	mg/kg	1
Nickel	7440-02-0	6020B	66		1.5	0.36	mg/kg	1
Potassium	7440-09-7	6020B	3200		120	30	mg/kg	1
Selenium	7782-49-2	6020B	1.5	U	1.5	0.57	mg/kg	1
Silver	7440-22-4	6020B	0.12	J	0.30	0.072	mg/kg	1
Sodium	7440-23-5	6020B	440		120	44	mg/kg	1
Thallium	7440-28-0	6020B	0.20		0.15	0.036	mg/kg	1
Vanadium	7440-62-2	6020B	32		1.5	0.30	mg/kg	1
Zinc	7440-66-6	6020B	650	D	15	3.0	mg/kg	2

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-002	
Description: B1-2		Matrix: Solid	
Date Sampled: 10/21/2021 1520	Project Name: Former Intermet-Lynchburg	% Solids: 80.2	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1655	AAB	11/03/2021 1120	21095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.62	U	0.62	0.25	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-002
Description: B1-2			Matrix: Solid
Date Sampled: 10/21/2021 1520	Project Name: Former Intermet-Lynchburg		% Solids: 80.2 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1821	JM1		20009	9.24

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.013	U	0.013	0.0054	mg/Kg	1
Benzene	71-43-2	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Bromoform	75-25-2	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0034	U	0.0034	0.0020	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.013	U	0.013	0.0027	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Chloroform	67-66-3	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0034	U	0.0034	0.0020	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0034	U	0.0034	0.0020	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.0067	U	0.0067	0.0027	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.0067	U	0.0067	0.0027	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Styrene	100-42-5	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Toluene	108-88-3	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-002
Description: B1-2		Matrix: Solid
Date Sampled: 10/21/2021 1520	Project Name: Former Intermet-Lynchburg	% Solids: 80.2 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1821	JM1		20009	9.24

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0034	U	0.0034	0.0020	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0034	U	0.0034	0.0013	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		94	47-138
1,2-Dichloroethane-d4		91	53-142
Toluene-d8		96	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-002
Description: B1-2			Matrix: Solid
Date Sampled: 10/21/2021 1520	Project Name: Former Intermet-Lynchburg		% Solids: 80.2 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/10/2021 2044	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.0033	U	0.0033	0.0010	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.0033	U	0.0033	0.0012	mg/Kg	1
Acetophenone	98-86-2	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Anthracene	120-12-7	8270E	0.0033	U	0.0033	0.00063	mg/Kg	1
Atrazine	1912-24-9	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.0033	U	0.0033	0.00073	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	0.00084	BJ	0.0033	0.00082	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	0.0022	J	0.0033	0.00062	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.0033	U	0.0033	0.00080	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.0033	U	0.0033	0.00059	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.016	U	0.016	0.0062	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.016	UL	0.016	0.0062	mg/Kg	1
Caprolactam	105-60-2	8270E	0.015	J	0.016	0.0062	mg/Kg	1
Carbazole	86-74-8	8270E	0.016	U	0.016	0.0062	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.016	U	0.016	0.0062	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.016	U	0.016	0.0062	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.016	U	0.016	0.0062	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.016	U	0.016	0.0062	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.016	U	0.016	0.0062	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.016	U	0.016	0.0062	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.016	U	0.016	0.0062	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Chrysene	218-01-9	8270E	0.0033	U	0.0033	0.00056	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.0033	U	0.0033	0.00063	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.016	U	0.016	0.0062	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.016	U	0.016	0.0062	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.016	U	0.016	0.0091	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.020		0.016	0.0062	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.083	U	0.083	0.031	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.083	U	0.083	0.031	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.033	U	0.033	0.012	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.033	U	0.033	0.012	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.016	U	0.016	0.0062	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.041	U	0.041	0.012	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.083	U	0.083	0.031	mg/Kg	1
Fluoranthene	206-44-0	8270E	0.0033	U	0.0033	0.00052	mg/Kg	1
Fluorene	86-73-7	8270E	0.0033	U	0.0033	0.00070	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.016	U	0.016	0.0062	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-002
Description: B1-2		Matrix: Solid
Date Sampled: 10/21/2021 1520	Project Name: Former Intermet-Lynchburg	% Solids: 80.2 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/10/2021 2044	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.083	U	0.083	0.031	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.0033	U	0.0033	0.0012	mg/Kg	1
Isophorone	78-59-1	8270E	0.016	U	0.016	0.0062	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.0033	U	0.0033	0.0012	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.016	U	0.016	0.0062	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.033	U	0.033	0.012	mg/Kg	1
Naphthalene	91-20-3	8270E	0.0033	U	0.0033	0.0012	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.033	U	0.033	0.012	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.033	U	0.033	0.012	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.033	U	0.033	0.012	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.016	U	0.016	0.0062	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.033	U	0.033	0.012	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.083	U	0.083	0.031	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.016	U	0.016	0.0062	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.083	U	0.083	0.031	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.00098	BJ	0.0033	0.00089	mg/Kg	1
Phenol	108-95-2	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Pyrene	129-00-0	8270E	0.0013	BJ	0.0033	0.00062	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.041	U	0.041	0.012	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.083	U	0.083	0.012	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.016	U	0.016	0.0062	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.016	U	0.016	0.0062	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		58	33-102
2-Fluorophenol		81	35-115
Nitrobenzene-d5		68	22-109
Phenol-d5		83	33-122
Terphenyl-d14		88	41-120
2,4,6-Tribromophenol		80	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-002
Description: B1-2			Matrix: Solid
Date Sampled: 10/21/2021 1520	Project Name: Former Intermet-Lynchburg		% Solids: 80.2 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/08/2021 1417	BNW	10/27/2021 0915	20129
1	7471B	7471B	1	11/02/2021 1426	CMS2	11/01/2021 1211	20140
2	3050B	6020B	5	11/08/2021 1534	BNW	10/27/2021 0915	20129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	13000		11	2.7	mg/kg	1
Antimony	7440-36-0	6020B	0.53	U	0.53	0.21	mg/kg	1
Arsenic	7440-38-2	6020B	6.2		0.53	0.21	mg/kg	1
Barium	7440-39-3	6020B	150		1.3	0.33	mg/kg	1
Beryllium	7440-41-7	6020B	1.1	D	0.53	0.18	mg/kg	2
Cadmium	7440-43-9	6020B	0.34		0.14	0.027	mg/kg	1
Calcium	7440-70-2	6020B	1400		110	32	mg/kg	1
Chromium	7440-47-3	6020B	16		1.3	0.59	mg/kg	1
Cobalt	7440-48-4	6020B	13		1.3	0.32	mg/kg	1
Copper	7440-50-8	6020B	16		1.3	0.35	mg/kg	1
Iron	7439-89-6	6020B	28000	D	69	13	mg/kg	2
Lead	7439-92-1	6020B	16		0.27	0.072	mg/kg	1
Magnesium	7439-95-4	6020B	2100		110	27	mg/kg	1
Manganese	7439-96-5	6020B	670	D	6.7	1.9	mg/kg	2
Mercury	7439-97-6	7471B	0.10	U	0.10	0.024	mg/kg	1
Nickel	7440-02-0	6020B	24		1.3	0.32	mg/kg	1
Potassium	7440-09-7	6020B	1600		110	27	mg/kg	1
Selenium	7782-49-2	6020B	0.77	J	1.3	0.50	mg/kg	1
Silver	7440-22-4	6020B	0.27	U	0.27	0.064	mg/kg	1
Sodium	7440-23-5	6020B	74	J	110	39	mg/kg	1
Thallium	7440-28-0	6020B	0.24		0.13	0.032	mg/kg	1
Vanadium	7440-62-2	6020B	26		1.3	0.27	mg/kg	1
Zinc	7440-66-6	6020B	78		2.7	0.53	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-003	
Description: B2-1		Matrix: Solid	
Date Sampled: 10/21/2021 1315	Project Name: Former Intermet-Lynchburg	% Solids: 81.6	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1659	AAB	11/03/2021 1120	21095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.61	U	0.61	0.25	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-003
Description: B2-1		Matrix: Solid
Date Sampled: 10/21/2021 1315	Project Name: Former Intermet-Lynchburg	% Solids: 81.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1844	JM1		20009	4.23

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.069		0.029	0.012	mg/Kg	1
Benzene	71-43-2	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Bromoform	75-25-2	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0072	U	0.0072	0.0043	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.026	J	0.029	0.0058	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0055	J	0.0072	0.0029	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Chloroform	67-66-3	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0072	U	0.0072	0.0043	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0072	US	0.0072	0.0029	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0072	US	0.0072	0.0029	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0072	U	0.0072	0.0043	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.014	U	0.014	0.0058	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0072	US	0.0072	0.0029	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.014	U	0.014	0.0058	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Styrene	100-42-5	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0072	US	0.0072	0.0029	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Toluene	108-88-3	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0072	US	0.0072	0.0029	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0072	US	0.0072	0.0029	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-003
Description: B2-1		Matrix: Solid
Date Sampled: 10/21/2021 1315	Project Name: Former Intermet-Lynchburg	% Solids: 81.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1844	JM1		20009	4.23

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0072	U	0.0072	0.0043	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0072	U	0.0072	0.0029	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		79	47-138
1,2-Dichloroethane-d4		86	53-142
Toluene-d8		106	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-003
Description: B2-1			Matrix: Solid
Date Sampled: 10/21/2021 1315	Project Name: Former Intermet-Lynchburg		% Solids: 81.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1603	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.041	D	0.033	0.010	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.039	D	0.033	0.012	mg/Kg	1
Acetophenone	98-86-2	8270E	0.16	U	0.16	0.061	mg/Kg	1
Anthracene	120-12-7	8270E	0.11	BD	0.033	0.0062	mg/Kg	1
Atrazine	1912-24-9	8270E	0.16	U	0.16	0.061	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.16	U	0.16	0.061	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.45	D	0.033	0.0072	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	0.57	BSD	0.033	0.0080	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	0.73	D	0.033	0.0061	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.32	BD	0.033	0.0079	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.23	SD	0.033	0.0058	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.16	U	0.16	0.061	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.16	U	0.16	0.061	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.16	UL	0.16	0.061	mg/Kg	1
Caprolactam	105-60-2	8270E	0.16	US	0.16	0.061	mg/Kg	1
Carbazole	86-74-8	8270E	0.16	U	0.16	0.061	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.16	U	0.16	0.061	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.16	US	0.16	0.061	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.16	U	0.16	0.061	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.16	U	0.16	0.061	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.16	U	0.16	0.061	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.16	U	0.16	0.061	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.16	U	0.16	0.061	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.16	U	0.16	0.061	mg/Kg	1
Chrysene	218-01-9	8270E	0.50	SD	0.033	0.0055	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.033	US	0.033	0.0062	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.16	U	0.16	0.061	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.16	US	0.16	0.061	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.16	U	0.16	0.061	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.16	U	0.16	0.061	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.16	U	0.16	0.090	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.16	US	0.16	0.061	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.16	U	0.16	0.061	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.82	US	0.82	0.30	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.82	US	0.82	0.30	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.33	US	0.33	0.12	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.33	US	0.33	0.12	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.16	U	0.16	0.061	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.40	U	0.40	0.12	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.82	U	0.82	0.30	mg/Kg	1
Fluoranthene	206-44-0	8270E	0.90	SD	0.033	0.0051	mg/Kg	1
Fluorene	86-73-7	8270E	0.025	JD	0.033	0.0069	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.16	U	0.16	0.061	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.16	U	0.16	0.061	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-003
Description: B2-1			Matrix: Solid
Date Sampled: 10/21/2021 1315	Project Name: Former Intermet-Lynchburg		% Solids: 81.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1603	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.82	US	0.82	0.30	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.16	U	0.16	0.061	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.29	D	0.033	0.012	mg/Kg	1
Isophorone	78-59-1	8270E	0.16	U	0.16	0.061	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.49	SD	0.033	0.012	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.16	U	0.16	0.061	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.33	U	0.33	0.12	mg/Kg	1
Naphthalene	91-20-3	8270E	0.12	SD	0.033	0.012	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.33	U	0.33	0.12	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.33	US	0.33	0.12	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.33	US	0.33	0.12	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.16	U	0.16	0.061	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.33	U	0.33	0.12	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.82	US	0.82	0.30	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.16	U	0.16	0.061	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.16	US	0.16	0.061	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.82	US	0.82	0.30	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.42	BSD	0.033	0.0088	mg/Kg	1
Phenol	108-95-2	8270E	0.16	U	0.16	0.061	mg/Kg	1
Pyrene	129-00-0	8270E	0.65	BD	0.033	0.0061	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.40	U	0.40	0.12	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.82	US	0.82	0.12	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.16	US	0.16	0.061	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.16	U	0.16	0.061	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		81	33-102
2-Fluorophenol		36	35-115
Nitrobenzene-d5		85	22-109
Phenol-d5		77	33-122
Terphenyl-d14		92	41-120
2,4,6-Tribromophenol		55	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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PCBs by GC

Client: Draper Aden Associates			Laboratory ID: WJ22078-003
Description: B2-1			Matrix: Solid
Date Sampled: 10/21/2021 1315	Project Name: Former Intermet-Lynchburg		% Solids: 81.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	10/27/2021 1331	CMF	10/25/2021 1657	20067

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	0.012	US	0.012	0.0033	mg/Kg	1
Aroclor 1221	11104-28-2	8082A	0.012	U	0.012	0.0028	mg/Kg	1
Aroclor 1232	11141-16-5	8082A	0.012	U	0.012	0.0026	mg/Kg	1
Aroclor 1242	53469-21-9	8082A	0.012	U	0.012	0.0019	mg/Kg	1
Aroclor 1248	12672-29-6	8082A	0.012	U	0.012	0.0050	mg/Kg	1
Aroclor 1254	11097-69-1	8082A	0.012	U	0.012	0.0031	mg/Kg	1
Aroclor 1260	11096-82-5	8082A	0.012	U	0.012	0.0030	mg/Kg	1
Aroclor 1262	37324-23-5	8082A	0.012	U	0.012	0.0025	mg/Kg	1
Aroclor 1268	11100-14-4	8082A	0.012	U	0.012	0.0017	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		68	41-132
Tetrachloro-m-xylene		47	35-106

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-003
Description: B2-1			Matrix: Solid
Date Sampled: 10/21/2021 1315	Project Name: Former Intermet-Lynchburg		% Solids: 81.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/08/2021 1419	BNW	10/27/2021 0915	20129
1	7471B	7471B	1	11/02/2021 1434	CMS2	11/01/2021 1211	20141
2	3050B	6020B	5	11/08/2021 1536	BNW	10/27/2021 0915	20129
3	3050B	6020B	25	11/08/2021 1612	BNW	10/27/2021 0915	20129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	13000	S	11	2.9	mg/kg	1
Antimony	7440-36-0	6020B	0.43	JS	0.57	0.23	mg/kg	1
Arsenic	7440-38-2	6020B	2.9		0.57	0.23	mg/kg	1
Barium	7440-39-3	6020B	160	S	1.4	0.35	mg/kg	1
Beryllium	7440-41-7	6020B	1.1	D	0.57	0.19	mg/kg	2
Cadmium	7440-43-9	6020B	0.38		0.15	0.029	mg/kg	1
Calcium	7440-70-2	6020B	58000	SD	570	170	mg/kg	2
Chromium	7440-47-3	6020B	30		1.4	0.63	mg/kg	1
Cobalt	7440-48-4	6020B	5.4		1.4	0.34	mg/kg	1
Copper	7440-50-8	6020B	29	S	1.4	0.37	mg/kg	1
Iron	7439-89-6	6020B	20000	SD	74	14	mg/kg	2
Lead	7439-92-1	6020B	22	S	0.29	0.078	mg/kg	1
Magnesium	7439-95-4	6020B	16000	S	110	29	mg/kg	1
Manganese	7439-96-5	6020B	2200	SD	36	10	mg/kg	3
Mercury	7439-97-6	7471B	0.10	US	0.10	0.024	mg/kg	1
Nickel	7440-02-0	6020B	11		1.4	0.34	mg/kg	1
Potassium	7440-09-7	6020B	1400	S	110	29	mg/kg	1
Selenium	7782-49-2	6020B	1.4	U	1.4	0.54	mg/kg	1
Silver	7440-22-4	6020B	0.11	J	0.29	0.069	mg/kg	1
Sodium	7440-23-5	6020B	290	S	110	42	mg/kg	1
Thallium	7440-28-0	6020B	0.077	J	0.14	0.034	mg/kg	1
Vanadium	7440-62-2	6020B	22		1.4	0.29	mg/kg	1
Zinc	7440-66-6	6020B	70	S	2.9	0.57	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-004	
Description: B2-2		Matrix: Solid	
Date Sampled: 10/21/2021 1320	Project Name: Former Intermet-Lynchburg	% Solids: 80.7	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1702	AAB	11/03/2021 1120	21095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.62	U	0.62	0.25	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-004
Description: B2-2			Matrix: Solid
Date Sampled: 10/21/2021 1320	Project Name: Former Intermet-Lynchburg		% Solids: 80.7 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1229	JM1		20033	4.76

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.031		0.026	0.010	mg/Kg	1
Benzene	71-43-2	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Bromoform	75-25-2	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0065	U	0.0065	0.0039	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.0088	J	0.026	0.0052	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Chloroform	67-66-3	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0065	U	0.0065	0.0039	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0065	U	0.0065	0.0039	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.013	U	0.013	0.0052	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.013	U	0.013	0.0052	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Styrene	100-42-5	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Toluene	108-88-3	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-004
Description: B2-2		Matrix: Solid
Date Sampled: 10/21/2021 1320	Project Name: Former Intermet-Lynchburg	% Solids: 80.7 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1229	JM1		20033	4.76

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0065	U	0.0065	0.0039	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0065	U	0.0065	0.0026	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		106	53-142
Toluene-d8		107	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-004
Description: B2-2			Matrix: Solid
Date Sampled: 10/21/2021 1320	Project Name: Former Intermet-Lynchburg		% Solids: 80.7 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/03/2021 1244	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.0033	UQ	0.0033	0.0010	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.0033	UQ	0.0033	0.0012	mg/Kg	1
Acetophenone	98-86-2	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
Anthracene	120-12-7	8270E	0.0017	BJQ	0.0033	0.00062	mg/Kg	1
Atrazine	1912-24-9	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.0081	Q	0.0033	0.00072	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	0.0092	BQ	0.0033	0.00081	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	0.011	Q	0.0033	0.00061	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.0067	BQ	0.0033	0.00079	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.0046	Q	0.0033	0.00059	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.016	UQL	0.016	0.0061	mg/Kg	1
Caprolactam	105-60-2	8270E	0.015	JQ	0.016	0.0061	mg/Kg	1
Carbazole	86-74-8	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
Chrysene	218-01-9	8270E	0.011	Q	0.0033	0.00055	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.0033	UQ	0.0033	0.00062	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.016	UQ	0.016	0.0090	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.023	Q	0.016	0.0061	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.082	UQ	0.082	0.031	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.082	UQ	0.082	0.031	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.033	UQ	0.033	0.012	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.033	UQ	0.033	0.012	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.040	UQ	0.040	0.012	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.082	UQ	0.082	0.031	mg/Kg	1
Fluoranthene	206-44-0	8270E	0.016	Q	0.0033	0.00051	mg/Kg	1
Fluorene	86-73-7	8270E	0.0033	UQ	0.0033	0.00070	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-004
Description: B2-2		Matrix: Solid
Date Sampled: 10/21/2021 1320	Project Name: Former Intermet-Lynchburg	% Solids: 80.7 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/03/2021 1244	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.082	UQ	0.082	0.031	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.0055	Q	0.0033	0.0012	mg/Kg	1
Isophorone	78-59-1	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.0075	Q	0.0033	0.0012	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.033	UQ	0.033	0.012	mg/Kg	1
Naphthalene	91-20-3	8270E	0.0067	Q	0.0033	0.0012	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.033	UQ	0.033	0.012	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.033	UQ	0.033	0.012	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.033	UQ	0.033	0.012	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.033	UQ	0.033	0.012	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.082	UQ	0.082	0.031	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.082	UQ	0.082	0.031	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.012	BQ	0.0033	0.00088	mg/Kg	1
Phenol	108-95-2	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
Pyrene	129-00-0	8270E	0.011	BQ	0.0033	0.00061	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.040	UQ	0.040	0.012	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.082	UQ	0.082	0.012	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.016	UQ	0.016	0.0061	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		87	33-102
2-Fluorophenol		96	35-115
Nitrobenzene-d5		103	22-109
Phenol-d5		90	33-122
Terphenyl-d14		88	41-120
2,4,6-Tribromophenol	N	134	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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PCBs by GC

Client: Draper Aden Associates			Laboratory ID: WJ22078-004
Description: B2-2			Matrix: Solid
Date Sampled: 10/21/2021 1320	Project Name: Former Intermet-Lynchburg		% Solids: 80.7 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	10/27/2021 1411	CMF	10/25/2021 1657	20067

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	0.012	U	0.012	0.0033	mg/Kg	1
Aroclor 1221	11104-28-2	8082A	0.012	U	0.012	0.0028	mg/Kg	1
Aroclor 1232	11141-16-5	8082A	0.012	U	0.012	0.0026	mg/Kg	1
Aroclor 1242	53469-21-9	8082A	0.012	U	0.012	0.0019	mg/Kg	1
Aroclor 1248	12672-29-6	8082A	0.012	U	0.012	0.0050	mg/Kg	1
Aroclor 1254	11097-69-1	8082A	0.012	U	0.012	0.0031	mg/Kg	1
Aroclor 1260	11096-82-5	8082A	0.012	U	0.012	0.0030	mg/Kg	1
Aroclor 1262	37324-23-5	8082A	0.012	U	0.012	0.0026	mg/Kg	1
Aroclor 1268	11100-14-4	8082A	0.012	U	0.012	0.0018	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		68	41-132
Tetrachloro-m-xylene		58	35-106

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-004
Description: B2-2			Matrix: Solid
Date Sampled: 10/21/2021 1320	Project Name: Former Intermet-Lynchburg		% Solids: 80.7 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/08/2021 1429	BNW	10/27/2021 0915	20129
1	7471B	7471B	1	11/02/2021 1442	CMS2	11/01/2021 1211	20141
2	3050B	6020B	5	11/08/2021 1546	BNW	10/27/2021 0915	20129
3	3050B	6020B	1	11/09/2021 1535	BNW	10/27/2021 0915	20129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	2400		11	2.8	mg/kg	1
Antimony	7440-36-0	6020B	0.40	J	0.56	0.22	mg/kg	1
Arsenic	7440-38-2	6020B	4.9		0.56	0.22	mg/kg	1
Barium	7440-39-3	6020B	31		1.4	0.35	mg/kg	1
Beryllium	7440-41-7	6020B	0.15		0.11	0.038	mg/kg	3
Cadmium	7440-43-9	6020B	0.22		0.15	0.028	mg/kg	1
Calcium	7440-70-2	6020B	33000	D	560	170	mg/kg	2
Chromium	7440-47-3	6020B	9.9		1.4	0.62	mg/kg	1
Cobalt	7440-48-4	6020B	9.8		1.4	0.34	mg/kg	1
Copper	7440-50-8	6020B	56		1.4	0.36	mg/kg	1
Iron	7439-89-6	6020B	34000	D	73	14	mg/kg	2
Lead	7439-92-1	6020B	17		0.28	0.076	mg/kg	1
Magnesium	7439-95-4	6020B	850		110	28	mg/kg	1
Manganese	7439-96-5	6020B	500	D	7.0	2.0	mg/kg	2
Mercury	7439-97-6	7471B	0.095	U	0.095	0.023	mg/kg	1
Nickel	7440-02-0	6020B	27		1.4	0.34	mg/kg	1
Potassium	7440-09-7	6020B	530		110	28	mg/kg	1
Selenium	7782-49-2	6020B	1.4	U	1.4	0.53	mg/kg	1
Silver	7440-22-4	6020B	0.28	U	0.28	0.067	mg/kg	1
Sodium	7440-23-5	6020B	90	J	110	41	mg/kg	1
Thallium	7440-28-0	6020B	0.054	J	0.14	0.034	mg/kg	1
Vanadium	7440-62-2	6020B	15		1.4	0.28	mg/kg	1
Zinc	7440-66-6	6020B	63		2.8	0.56	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-005	
Description: B3-1		Matrix: Solid	
Date Sampled: 10/21/2021 1225	Project Name: Former Intermet-Lynchburg	% Solids: 79.8	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1703	AAB	11/03/2021 1120	21095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.63	U	0.63	0.25	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-005
Description: B3-1		Matrix: Solid
Date Sampled: 10/21/2021 1225	Project Name: Former Intermet-Lynchburg	% Solids: 79.8 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1253	JM1		20033	7.52

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.017	U	0.017	0.0067	mg/Kg	1
Benzene	71-43-2	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Bromoform	75-25-2	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0042	U	0.0042	0.0025	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.017	U	0.017	0.0033	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Chloroform	67-66-3	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0042	U	0.0042	0.0025	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0042	U	0.0042	0.0025	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.0083	U	0.0083	0.0033	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.0083	U	0.0083	0.0033	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Styrene	100-42-5	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Toluene	108-88-3	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-005
Description: B3-1		Matrix: Solid
Date Sampled: 10/21/2021 1225	Project Name: Former Intermet-Lynchburg	% Solids: 79.8 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1253	JM1		20033	7.52

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0042	U	0.0042	0.0025	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0042	U	0.0042	0.0017	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		108	47-138
1,2-Dichloroethane-d4		108	53-142
Toluene-d8		99	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-005
Description: B3-1			Matrix: Solid
Date Sampled: 10/21/2021 1225	Project Name: Former Intermet-Lynchburg		% Solids: 79.8 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1717	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.065	D	0.033	0.010	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.078	D	0.033	0.012	mg/Kg	1
Acetophenone	98-86-2	8270E	0.16	U	0.16	0.061	mg/Kg	1
Anthracene	120-12-7	8270E	0.22	BD	0.033	0.0062	mg/Kg	1
Atrazine	1912-24-9	8270E	0.16	U	0.16	0.061	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.16	U	0.16	0.061	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.80	D	0.033	0.0072	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	0.94	BD	0.033	0.0081	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	1.0	D	0.033	0.0061	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.47	BD	0.033	0.0079	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.44	D	0.033	0.0059	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.16	U	0.16	0.061	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.16	U	0.16	0.061	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.16	UL	0.16	0.061	mg/Kg	1
Caprolactam	105-60-2	8270E	0.16	U	0.16	0.061	mg/Kg	1
Carbazole	86-74-8	8270E	0.16	U	0.16	0.061	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.16	U	0.16	0.061	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.16	U	0.16	0.061	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.16	U	0.16	0.061	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.16	U	0.16	0.061	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.16	U	0.16	0.061	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.16	U	0.16	0.061	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.16	U	0.16	0.061	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.16	U	0.16	0.061	mg/Kg	1
Chrysene	218-01-9	8270E	0.80	D	0.033	0.0055	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.033	U	0.033	0.0062	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.16	U	0.16	0.061	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.16	U	0.16	0.061	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.16	U	0.16	0.061	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.16	U	0.16	0.061	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.16	U	0.16	0.090	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.16	U	0.16	0.061	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.16	U	0.16	0.061	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.82	U	0.82	0.31	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.82	U	0.82	0.31	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.33	U	0.33	0.12	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.33	U	0.33	0.12	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.16	U	0.16	0.061	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.40	U	0.40	0.12	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.82	U	0.82	0.31	mg/Kg	1
Fluoranthene	206-44-0	8270E	1.4	D	0.033	0.0051	mg/Kg	1
Fluorene	86-73-7	8270E	0.061	D	0.033	0.0070	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.16	U	0.16	0.061	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.16	U	0.16	0.061	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-005
Description: B3-1			Matrix: Solid
Date Sampled: 10/21/2021 1225	Project Name: Former Intermet-Lynchburg		% Solids: 79.8 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1717	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.82	U	0.82	0.31	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.16	U	0.16	0.061	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.44	D	0.033	0.012	mg/Kg	1
Isophorone	78-59-1	8270E	0.16	U	0.16	0.061	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.054	D	0.033	0.012	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.16	U	0.16	0.061	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.33	U	0.33	0.12	mg/Kg	1
Naphthalene	91-20-3	8270E	0.088	D	0.033	0.012	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.33	U	0.33	0.12	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.33	U	0.33	0.12	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.33	U	0.33	0.12	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.16	U	0.16	0.061	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.33	U	0.33	0.12	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.82	U	0.82	0.31	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.16	U	0.16	0.061	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.16	U	0.16	0.061	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.82	U	0.82	0.31	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.56	BD	0.033	0.0088	mg/Kg	1
Phenol	108-95-2	8270E	0.16	U	0.16	0.061	mg/Kg	1
Pyrene	129-00-0	8270E	1.1	BD	0.033	0.0061	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.40	U	0.40	0.12	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.82	U	0.82	0.12	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.16	U	0.16	0.061	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.16	U	0.16	0.061	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		61	33-102
2-Fluorophenol		39	35-115
Nitrobenzene-d5		69	22-109
Phenol-d5		54	33-122
Terphenyl-d14		74	41-120
2,4,6-Tribromophenol		51	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-005
Description: B3-1			Matrix: Solid
Date Sampled: 10/21/2021 1225	Project Name: Former Intermet-Lynchburg		% Solids: 79.8 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/08/2021 1431	BNW	10/27/2021 0915	20129
1	7471B	7471B	1	11/02/2021 1450	CMS2	11/01/2021 1211	20141
2	3050B	6020B	5	11/08/2021 1552	BNW	10/27/2021 0915	20129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	25000	D	52	13	mg/kg	2
Antimony	7440-36-0	6020B	0.52	U	0.52	0.21	mg/kg	1
Arsenic	7440-38-2	6020B	3.6		0.52	0.21	mg/kg	1
Barium	7440-39-3	6020B	180	D	6.5	1.6	mg/kg	2
Beryllium	7440-41-7	6020B	1.4	D	0.52	0.18	mg/kg	2
Cadmium	7440-43-9	6020B	0.53		0.14	0.026	mg/kg	1
Calcium	7440-70-2	6020B	33000	D	520	160	mg/kg	2
Chromium	7440-47-3	6020B	20		1.3	0.58	mg/kg	1
Cobalt	7440-48-4	6020B	35		1.3	0.31	mg/kg	1
Copper	7440-50-8	6020B	120		1.3	0.34	mg/kg	1
Iron	7439-89-6	6020B	72000	D	68	13	mg/kg	2
Lead	7439-92-1	6020B	55		0.26	0.071	mg/kg	1
Magnesium	7439-95-4	6020B	5200		100	26	mg/kg	1
Manganese	7439-96-5	6020B	570	D	6.5	1.9	mg/kg	2
Mercury	7439-97-6	7471B	0.088	J	0.099	0.024	mg/kg	1
Nickel	7440-02-0	6020B	27		1.3	0.31	mg/kg	1
Potassium	7440-09-7	6020B	2000		100	26	mg/kg	1
Selenium	7782-49-2	6020B	1.3		1.3	0.49	mg/kg	1
Silver	7440-22-4	6020B	0.33		0.26	0.063	mg/kg	1
Sodium	7440-23-5	6020B	58	J	100	38	mg/kg	1
Thallium	7440-28-0	6020B	0.22		0.13	0.031	mg/kg	1
Vanadium	7440-62-2	6020B	120		1.3	0.26	mg/kg	1
Zinc	7440-66-6	6020B	180	D	13	2.6	mg/kg	2

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-006	
Description: B3-2		Matrix: Solid	
Date Sampled: 10/21/2021 1230	Project Name: Former Intermet-Lynchburg	% Solids: 81.5	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1705	AAB	11/03/2021 1120	21095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.61	U	0.61	0.25	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-006
Description: B3-2			Matrix: Solid
Date Sampled: 10/21/2021 1230	Project Name: Former Intermet-Lynchburg		% Solids: 81.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1317	JM1		20033	8.02

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.089		0.015	0.0061	mg/Kg	1
Benzene	71-43-2	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Bromoform	75-25-2	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0038	U	0.0038	0.0023	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.019		0.015	0.0031	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Chloroform	67-66-3	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0038	U	0.0038	0.0023	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0038	U	0.0038	0.0023	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0026	J	0.0038	0.0015	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.0076	U	0.0076	0.0031	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.0076	U	0.0076	0.0031	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Styrene	100-42-5	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Toluene	108-88-3	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-006
Description: B3-2		Matrix: Solid
Date Sampled: 10/21/2021 1230	Project Name: Former Intermet-Lynchburg	% Solids: 81.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1317	JM1		20033	8.02

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0038	U	0.0038	0.0023	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0038	U	0.0038	0.0015	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		83	47-138
1,2-Dichloroethane-d4		109	53-142
Toluene-d8		98	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-006
Description: B3-2			Matrix: Solid
Date Sampled: 10/21/2021 1230	Project Name: Former Intermet-Lynchburg		% Solids: 81.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1742	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.033	UQ	0.033	0.010	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.033	UQ	0.033	0.011	mg/Kg	1
Acetophenone	98-86-2	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
Anthracene	120-12-7	8270E	0.042	BQD	0.033	0.0062	mg/Kg	1
Atrazine	1912-24-9	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.58	QD	0.033	0.0071	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	1.1	BQD	0.033	0.0080	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	2.3	QD	0.033	0.0060	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	1.1	BQD	0.033	0.0078	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.67	QD	0.033	0.0058	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.16	UQL	0.16	0.060	mg/Kg	1
Caprolactam	105-60-2	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
Carbazole	86-74-8	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
Chrysene	218-01-9	8270E	1.2	QD	0.033	0.0054	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.033	UQ	0.033	0.0062	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.16	UQ	0.16	0.089	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.81	UQ	0.81	0.30	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.81	UQ	0.81	0.30	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.33	UQ	0.33	0.12	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.33	UQ	0.33	0.12	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.40	UQ	0.40	0.12	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.81	UQ	0.81	0.30	mg/Kg	1
Fluoranthene	206-44-0	8270E	1.1	QD	0.033	0.0051	mg/Kg	1
Fluorene	86-73-7	8270E	0.033	UQ	0.033	0.0069	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.16	UQ	0.16	0.060	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-006
Description: B3-2		Matrix: Solid
Date Sampled: 10/21/2021 1230	Project Name: Former Intermet-Lynchburg	% Solids: 81.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1742	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.81	UQ	0.81	0.30	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.93	QD	0.033	0.012	mg/Kg	1
Isophorone	78-59-1	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.063	QD	0.033	0.012	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.33	UQ	0.33	0.12	mg/Kg	1
Naphthalene	91-20-3	8270E	0.057	QD	0.033	0.012	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.33	UQ	0.33	0.12	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.33	UQ	0.33	0.12	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.33	UQ	0.33	0.12	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.33	UQ	0.33	0.12	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.81	UQ	0.81	0.30	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.81	UQ	0.81	0.30	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.37	BQD	0.033	0.0087	mg/Kg	1
Phenol	108-95-2	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
Pyrene	129-00-0	8270E	0.72	BQD	0.033	0.0060	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.40	UQ	0.40	0.12	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.81	UQ	0.81	0.12	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.16	UQ	0.16	0.060	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.16	UQ	0.16	0.060	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		79	33-102
2-Fluorophenol		51	35-115
Nitrobenzene-d5		88	22-109
Phenol-d5		65	33-122
Terphenyl-d14		86	41-120
2,4,6-Tribromophenol	N	0.00	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-006
Description: B3-2			Matrix: Solid
Date Sampled: 10/21/2021 1230	Project Name: Former Intermet-Lynchburg		% Solids: 81.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/08/2021 1433	BNW	10/27/2021 0915	20129
1	7471B	7471B	1	11/02/2021 1453	CMS2	11/01/2021 1211	20141
2	3050B	6020B	5	11/08/2021 1555	BNW	10/27/2021 0915	20129
3	3050B	6020B	1	11/09/2021 1543	BNW	10/27/2021 0915	20129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	10000		11	2.7	mg/kg	1
Antimony	7440-36-0	6020B	1.5		0.54	0.22	mg/kg	1
Arsenic	7440-38-2	6020B	11		0.54	0.22	mg/kg	1
Barium	7440-39-3	6020B	74		1.4	0.34	mg/kg	1
Beryllium	7440-41-7	6020B	0.39		0.11	0.037	mg/kg	3
Cadmium	7440-43-9	6020B	0.096	J	0.14	0.027	mg/kg	1
Calcium	7440-70-2	6020B	2600		110	33	mg/kg	1
Chromium	7440-47-3	6020B	19		1.4	0.60	mg/kg	1
Cobalt	7440-48-4	6020B	9.0		1.4	0.33	mg/kg	1
Copper	7440-50-8	6020B	170	D	6.8	1.8	mg/kg	2
Iron	7439-89-6	6020B	52000	D	71	14	mg/kg	2
Lead	7439-92-1	6020B	50		0.27	0.074	mg/kg	1
Magnesium	7439-95-4	6020B	600		110	27	mg/kg	1
Manganese	7439-96-5	6020B	570	D	6.8	2.0	mg/kg	2
Mercury	7439-97-6	7471B	0.098	U	0.098	0.024	mg/kg	1
Nickel	7440-02-0	6020B	20		1.4	0.33	mg/kg	1
Potassium	7440-09-7	6020B	1100		110	27	mg/kg	1
Selenium	7782-49-2	6020B	0.83	J	1.4	0.51	mg/kg	1
Silver	7440-22-4	6020B	0.71		0.27	0.065	mg/kg	1
Sodium	7440-23-5	6020B	110		110	40	mg/kg	1
Thallium	7440-28-0	6020B	0.076	J	0.14	0.033	mg/kg	1
Vanadium	7440-62-2	6020B	28		1.4	0.27	mg/kg	1
Zinc	7440-66-6	6020B	64		2.7	0.54	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-007	
Description: B4-1		Matrix: Solid	
Date Sampled: 10/21/2021 1120	Project Name: Former Intermet-Lynchburg	% Solids: 75.8	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1706	AAB	11/03/2021 1120	21095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.66	U	0.66	0.26	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-007
Description: B4-1			Matrix: Solid
Date Sampled: 10/21/2021 1120	Project Name: Former Intermet-Lynchburg		% Solids: 75.8 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1341	JM1		20033	4.79

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.018	J	0.028	0.011	mg/Kg	1
Benzene	71-43-2	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Bromoform	75-25-2	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0069	U	0.0069	0.0041	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.028	U	0.028	0.0055	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Chloroform	67-66-3	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0069	U	0.0069	0.0041	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0069	U	0.0069	0.0041	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.014	U	0.014	0.0055	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.014	U	0.014	0.0055	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Styrene	100-42-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Toluene	108-88-3	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-007
Description: B4-1		Matrix: Solid
Date Sampled: 10/21/2021 1120	Project Name: Former Intermet-Lynchburg	% Solids: 75.8 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1341	JM1		20033	4.79

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0069	U	0.0069	0.0041	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		112	47-138
1,2-Dichloroethane-d4		101	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-007
Description: B4-1			Matrix: Solid
Date Sampled: 10/21/2021 1120	Project Name: Former Intermet-Lynchburg		% Solids: 75.8 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1807	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.035	UQ	0.035	0.011	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.035	UQ	0.035	0.012	mg/Kg	1
Acetophenone	98-86-2	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
Anthracene	120-12-7	8270E	0.036	BQD	0.035	0.0066	mg/Kg	1
Atrazine	1912-24-9	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.14	QD	0.035	0.0077	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	0.17	BQD	0.035	0.0086	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	0.43	QD	0.035	0.0065	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.12	BQD	0.035	0.0085	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.035	UQ	0.035	0.0062	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.17	UQL	0.17	0.065	mg/Kg	1
Caprolactam	105-60-2	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
Carbazole	86-74-8	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
Chrysene	218-01-9	8270E	0.26	QD	0.035	0.0059	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.035	UQ	0.035	0.0066	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.15	JQD	0.17	0.065	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.17	UQ	0.17	0.096	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.87	UQ	0.87	0.33	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.87	UQ	0.87	0.33	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.43	UQ	0.43	0.13	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.87	UQ	0.87	0.33	mg/Kg	1
Fluoranthene	206-44-0	8270E	0.24	QD	0.035	0.0055	mg/Kg	1
Fluorene	86-73-7	8270E	0.035	UQ	0.035	0.0074	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.17	UQ	0.17	0.065	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-007
Description: B4-1		Matrix: Solid
Date Sampled: 10/21/2021 1120	Project Name: Former Intermet-Lynchburg	% Solids: 75.8 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1807	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.87	UQ	0.87	0.33	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.10	QD	0.035	0.013	mg/Kg	1
Isophorone	78-59-1	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.42	QD	0.035	0.013	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Naphthalene	91-20-3	8270E	0.30	QD	0.035	0.013	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.35	UQ	0.35	0.13	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.87	UQ	0.87	0.33	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.87	UQ	0.87	0.33	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.45	BQD	0.035	0.0094	mg/Kg	1
Phenol	108-95-2	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
Pyrene	129-00-0	8270E	0.19	BQD	0.035	0.0065	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.43	UQ	0.43	0.13	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.87	UQ	0.87	0.13	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.17	UQ	0.17	0.065	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.17	UQ	0.17	0.065	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		75	33-102
2-Fluorophenol		46	35-115
Nitrobenzene-d5		85	22-109
Phenol-d5	N	5.7	33-122
Terphenyl-d14		82	41-120
2,4,6-Tribromophenol		45	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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PCBs by GC

Client: Draper Aden Associates			Laboratory ID: WJ22078-007
Description: B4-1			Matrix: Solid
Date Sampled: 10/21/2021 1120	Project Name: Former Intermet-Lynchburg		% Solids: 75.8 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	10/27/2021 1425	CMF	10/25/2021 1657	20067

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	0.013	U	0.013	0.0036	mg/Kg	1
Aroclor 1221	11104-28-2	8082A	0.013	U	0.013	0.0031	mg/Kg	1
Aroclor 1232	11141-16-5	8082A	0.013	U	0.013	0.0028	mg/Kg	1
Aroclor 1242	53469-21-9	8082A	0.013	U	0.013	0.0021	mg/Kg	1
Aroclor 1248	12672-29-6	8082A	0.013	U	0.013	0.0054	mg/Kg	1
Aroclor 1254	11097-69-1	8082A	0.013	U	0.013	0.0033	mg/Kg	1
Aroclor 1260	11096-82-5	8082A	0.013	U	0.013	0.0032	mg/Kg	1
Aroclor 1262	37324-23-5	8082A	0.013	U	0.013	0.0028	mg/Kg	1
Aroclor 1268	11100-14-4	8082A	0.013	U	0.013	0.0019	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		62	41-132
Tetrachloro-m-xylene		49	35-106

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-007
Description: B4-1			Matrix: Solid
Date Sampled: 10/21/2021 1120	Project Name: Former Intermet-Lynchburg		% Solids: 75.8 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/08/2021 1439	BNW	10/27/2021 0915	20129
1	7471B	7471B	1	11/02/2021 1455	CMS2	11/01/2021 1211	20141
2	3050B	6020B	5	11/08/2021 1557	BNW	10/27/2021 0915	20129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	8400		12	2.9	mg/kg	1
Antimony	7440-36-0	6020B	0.56	J	0.58	0.23	mg/kg	1
Arsenic	7440-38-2	6020B	5.0		0.58	0.23	mg/kg	1
Barium	7440-39-3	6020B	89		1.4	0.36	mg/kg	1
Beryllium	7440-41-7	6020B	0.74	D	0.58	0.20	mg/kg	2
Cadmium	7440-43-9	6020B	0.28		0.15	0.029	mg/kg	1
Calcium	7440-70-2	6020B	10000		120	35	mg/kg	1
Chromium	7440-47-3	6020B	23		1.4	0.64	mg/kg	1
Cobalt	7440-48-4	6020B	8.4		1.4	0.35	mg/kg	1
Copper	7440-50-8	6020B	34		1.4	0.38	mg/kg	1
Iron	7439-89-6	6020B	24000	D	75	14	mg/kg	2
Lead	7439-92-1	6020B	240	D	1.4	0.39	mg/kg	2
Magnesium	7439-95-4	6020B	1700		120	29	mg/kg	1
Manganese	7439-96-5	6020B	440	D	7.2	2.1	mg/kg	2
Mercury	7439-97-6	7471B	0.10	U	0.10	0.024	mg/kg	1
Nickel	7440-02-0	6020B	24		1.4	0.35	mg/kg	1
Potassium	7440-09-7	6020B	1200		120	29	mg/kg	1
Selenium	7782-49-2	6020B	0.94	J	1.4	0.55	mg/kg	1
Silver	7440-22-4	6020B	0.14	J	0.29	0.069	mg/kg	1
Sodium	7440-23-5	6020B	240		120	42	mg/kg	1
Thallium	7440-28-0	6020B	0.12	J	0.14	0.035	mg/kg	1
Vanadium	7440-62-2	6020B	28		1.4	0.29	mg/kg	1
Zinc	7440-66-6	6020B	55		2.9	0.58	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-008	
Description: B4-2		Matrix: Solid	
Date Sampled: 10/21/2021 1125	Project Name: Former Intermet-Lynchburg	% Solids: 81.7	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1714	AAB	11/03/2021 1412	21126

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.50	J	0.61	0.24	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-008
Description: B4-2			Matrix: Solid
Date Sampled: 10/21/2021 1125	Project Name: Former Intermet-Lynchburg		% Solids: 81.7 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1611	JM1		20033	6.01

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.026	S	0.020	0.0081	mg/Kg	1
Benzene	71-43-2	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Bromoform	75-25-2	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0051	U	0.0051	0.0031	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.020	U	0.020	0.0041	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Chloroform	67-66-3	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0051	U	0.0051	0.0031	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0051	US	0.0051	0.0020	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0051	US	0.0051	0.0020	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0051	US	0.0051	0.0020	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0051	US	0.0051	0.0020	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0051	U	0.0051	0.0031	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.010	U	0.010	0.0041	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0051	US	0.0051	0.0020	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.010	U	0.010	0.0041	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Styrene	100-42-5	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Toluene	108-88-3	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0051	US	0.0051	0.0020	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0051	US	0.0051	0.0020	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-008
Description: B4-2		Matrix: Solid
Date Sampled: 10/21/2021 1125	Project Name: Former Intermet-Lynchburg	% Solids: 81.7 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1611	JM1		20033	6.01

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0051	U	0.0051	0.0031	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0051	U	0.0051	0.0020	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		108	47-138
1,2-Dichloroethane-d4		102	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-008
Description: B4-2			Matrix: Solid
Date Sampled: 10/21/2021 1125	Project Name: Former Intermet-Lynchburg		% Solids: 81.7 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/03/2021 1309	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.0010	J	0.0033	0.0010	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.0033	U	0.0033	0.0012	mg/Kg	1
Acetophenone	98-86-2	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Anthracene	120-12-7	8270E	0.0014	BJ	0.0033	0.00062	mg/Kg	1
Atrazine	1912-24-9	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.016	US	0.016	0.0061	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.0069		0.0033	0.00072	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	0.011	B	0.0033	0.00081	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	0.014		0.0033	0.00061	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.012	B	0.0033	0.00079	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.0062		0.0033	0.00059	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.016	U	0.016	0.0061	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.016	UL	0.016	0.0061	mg/Kg	1
Caprolactam	105-60-2	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Carbazole	86-74-8	8270E	0.016	U	0.016	0.0061	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.016	U	0.016	0.0061	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.016	U	0.016	0.0061	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.016	U	0.016	0.0061	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.016	U	0.016	0.0061	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.016	U	0.016	0.0061	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.016	U	0.016	0.0061	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.016	U	0.016	0.0061	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Chrysene	218-01-9	8270E	0.0073		0.0033	0.00055	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.0033	U	0.0033	0.00062	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.016	U	0.016	0.0061	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.016	US	0.016	0.0061	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.016	U	0.016	0.0090	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.023		0.016	0.0061	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.082	U	0.082	0.031	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.082	U	0.082	0.031	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.033	U	0.033	0.012	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.033	U	0.033	0.012	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.016	U	0.016	0.0061	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.040	U	0.040	0.012	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.082	U	0.082	0.031	mg/Kg	1
Fluoranthene	206-44-0	8270E	0.010		0.0033	0.00051	mg/Kg	1
Fluorene	86-73-7	8270E	0.00078	J	0.0033	0.00070	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.016	U	0.016	0.0061	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-008
Description: B4-2		Matrix: Solid
Date Sampled: 10/21/2021 1125	Project Name: Former Intermet-Lynchburg	% Solids: 81.7 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/03/2021 1309	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.082	U	0.082	0.031	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.0089		0.0033	0.0012	mg/Kg	1
Isophorone	78-59-1	8270E	0.016	U	0.016	0.0061	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.0035		0.0033	0.0012	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.016	U	0.016	0.0061	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.033	U	0.033	0.012	mg/Kg	1
Naphthalene	91-20-3	8270E	0.0034		0.0033	0.0012	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.033	U	0.033	0.012	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.033	US	0.033	0.012	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.033	U	0.033	0.012	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.016	U	0.016	0.0061	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.033	U	0.033	0.012	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.082	U	0.082	0.031	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.016	U	0.016	0.0061	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.082	U	0.082	0.031	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.0091	B	0.0033	0.00088	mg/Kg	1
Phenol	108-95-2	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Pyrene	129-00-0	8270E	0.0086	B	0.0033	0.00061	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.040	U	0.040	0.012	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.082	US	0.082	0.012	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.016	U	0.016	0.0061	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.016	U	0.016	0.0061	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		71	33-102
2-Fluorophenol		70	35-115
Nitrobenzene-d5		83	22-109
Phenol-d5		74	33-122
Terphenyl-d14		81	41-120
2,4,6-Tribromophenol		106	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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PCBs by GC

Client: Draper Aden Associates			Laboratory ID: WJ22078-008
Description: B4-2			Matrix: Solid
Date Sampled: 10/21/2021 1125	Project Name: Former Intermet-Lynchburg		% Solids: 81.7 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	10/29/2021 1732	CMF	10/27/2021 1715	20384

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	0.012	US	0.012	0.0033	mg/Kg	1
Aroclor 1221	11104-28-2	8082A	0.012	U	0.012	0.0028	mg/Kg	1
Aroclor 1232	11141-16-5	8082A	0.012	U	0.012	0.0026	mg/Kg	1
Aroclor 1242	53469-21-9	8082A	0.012	U	0.012	0.0019	mg/Kg	1
Aroclor 1248	12672-29-6	8082A	0.012	U	0.012	0.0050	mg/Kg	1
Aroclor 1254	11097-69-1	8082A	0.012	U	0.012	0.0031	mg/Kg	1
Aroclor 1260	11096-82-5	8082A	0.012	US	0.012	0.0030	mg/Kg	1
Aroclor 1262	37324-23-5	8082A	0.012	U	0.012	0.0026	mg/Kg	1
Aroclor 1268	11100-14-4	8082A	0.012	U	0.012	0.0018	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		65	41-132
Tetrachloro-m-xylene		69	35-106

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-008	
Description: B4-2		Matrix: Solid	
Date Sampled: 10/21/2021 1125	Project Name: Former Intermet-Lynchburg	% Solids: 81.7	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/05/2021 1153	BNW	11/02/2021 0412	20772
1	7471B	7471B	1	11/02/2021 1458	CMS2	11/01/2021 1211	20141
2	3050B	6020B	10	11/05/2021 1620	BNW	11/02/2021 0412	20772

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	12000	S	11	2.8	mg/kg	1
Antimony	7440-36-0	6020B	0.37	JS	0.56	0.23	mg/kg	1
Arsenic	7440-38-2	6020B	7.5		0.56	0.23	mg/kg	1
Barium	7440-39-3	6020B	130	S	1.4	0.35	mg/kg	1
Beryllium	7440-41-7	6020B	1.0		0.11	0.038	mg/kg	1
Cadmium	7440-43-9	6020B	0.34		0.15	0.028	mg/kg	1
Calcium	7440-70-2	6020B	2900	S	110	34	mg/kg	1
Chromium	7440-47-3	6020B	16		1.4	0.62	mg/kg	1
Cobalt	7440-48-4	6020B	12		1.4	0.34	mg/kg	1
Copper	7440-50-8	6020B	21	B	1.4	0.37	mg/kg	1
Iron	7439-89-6	6020B	26000	SD	150	28	mg/kg	2
Lead	7439-92-1	6020B	24	S	0.28	0.077	mg/kg	1
Magnesium	7439-95-4	6020B	2000	S	110	28	mg/kg	1
Manganese	7439-96-5	6020B	580	SD	14	4.1	mg/kg	2
Mercury	7439-97-6	7471B	0.025	J	0.095	0.023	mg/kg	1
Nickel	7440-02-0	6020B	22		1.4	0.34	mg/kg	1
Potassium	7440-09-7	6020B	1600	S	110	28	mg/kg	1
Selenium	7782-49-2	6020B	1.4	U	1.4	0.53	mg/kg	1
Silver	7440-22-4	6020B	0.28	U	0.28	0.068	mg/kg	1
Sodium	7440-23-5	6020B	58	J	110	41	mg/kg	1
Thallium	7440-28-0	6020B	0.23		0.14	0.034	mg/kg	1
Vanadium	7440-62-2	6020B	25	S	1.4	0.28	mg/kg	1
Zinc	7440-66-6	6020B	78	S	2.8	0.56	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-009	
Description: B5-1		Matrix: Solid	
Date Sampled: 10/21/2021 1025	Project Name: Former Intermet-Lynchburg	% Solids: 72.5	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1717	AAB	11/03/2021 1412	21126

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.69	U	0.69	0.28	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-009
Description: B5-1		Matrix: Solid
Date Sampled: 10/21/2021 1025	Project Name: Former Intermet-Lynchburg	% Solids: 72.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1649	JM1		20033	5.84

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.020	J	0.024	0.0094	mg/Kg	1
Benzene	71-43-2	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Bromoform	75-25-2	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0059	U	0.0059	0.0035	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.024	U	0.024	0.0047	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Chloroform	67-66-3	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0059	U	0.0059	0.0035	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0059	U	0.0059	0.0035	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.012	U	0.012	0.0047	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.012	U	0.012	0.0047	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Styrene	100-42-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Toluene	108-88-3	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-009
Description: B5-1		Matrix: Solid
Date Sampled: 10/21/2021 1025	Project Name: Former Intermet-Lynchburg	% Solids: 72.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1649	JM1		20033	5.84

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0059	U	0.0059	0.0035	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0059	U	0.0059	0.0024	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		97	53-142
Toluene-d8		94	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-009
Description: B5-1			Matrix: Solid
Date Sampled: 10/21/2021 1025	Project Name: Former Intermet-Lynchburg		% Solids: 72.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1831	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.037	UQ	0.037	0.011	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.037	UQ	0.037	0.013	mg/Kg	1
Acetophenone	98-86-2	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
Anthracene	120-12-7	8270E	0.037	UQ	0.037	0.0070	mg/Kg	1
Atrazine	1912-24-9	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.037	UQ	0.037	0.0081	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	0.037	UQ	0.037	0.0090	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	0.037	UQ	0.037	0.0069	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.037	UQ	0.037	0.0089	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.037	UQ	0.037	0.0066	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.18	UQL	0.18	0.069	mg/Kg	1
Caprolactam	105-60-2	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
Carbazole	86-74-8	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
Chrysene	218-01-9	8270E	0.037	UQ	0.037	0.0062	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.037	UQ	0.037	0.0070	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.18	UQ	0.18	0.10	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.92	UQ	0.92	0.34	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.92	UQ	0.92	0.34	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.45	UQ	0.45	0.14	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.92	UQ	0.92	0.34	mg/Kg	1
Fluoranthene	206-44-0	8270E	0.019	JQD	0.037	0.0058	mg/Kg	1
Fluorene	86-73-7	8270E	0.037	UQ	0.037	0.0078	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.18	UQ	0.18	0.069	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-009
Description: B5-1		Matrix: Solid
Date Sampled: 10/21/2021 1025	Project Name: Former Intermet-Lynchburg	% Solids: 72.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1831	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.92	UQ	0.92	0.34	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.037	UQ	0.037	0.014	mg/Kg	1
Isophorone	78-59-1	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.037	UQ	0.037	0.014	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
Naphthalene	91-20-3	8270E	0.037	UQ	0.037	0.013	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.37	UQ	0.37	0.14	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.92	UQ	0.92	0.34	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.92	UQ	0.92	0.34	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.037	UQ	0.037	0.0099	mg/Kg	1
Phenol	108-95-2	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
Pyrene	129-00-0	8270E	0.037	UQ	0.037	0.0069	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.45	UQ	0.45	0.14	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.92	UQ	0.92	0.14	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.18	UQ	0.18	0.069	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.18	UQ	0.18	0.069	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		54	33-102
2-Fluorophenol		35	35-115
Nitrobenzene-d5		74	22-109
Phenol-d5	N	4.3	33-122
Terphenyl-d14		65	41-120
2,4,6-Tribromophenol		43	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-009
Description: B5-1			Matrix: Solid
Date Sampled: 10/21/2021 1025	Project Name: Former Intermet-Lynchburg		% Solids: 72.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/08/2021 1441	BNW	10/27/2021 0915	20129
1	7471B	7471B	1	11/02/2021 1506	CMS2	11/01/2021 1211	20141
2	3050B	6020B	5	11/08/2021 1559	BNW	10/27/2021 0915	20129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	18000		14	3.4	mg/kg	1
Antimony	7440-36-0	6020B	0.69	U	0.69	0.28	mg/kg	1
Arsenic	7440-38-2	6020B	0.89		0.69	0.28	mg/kg	1
Barium	7440-39-3	6020B	170		1.7	0.43	mg/kg	1
Beryllium	7440-41-7	6020B	0.84	D	0.69	0.23	mg/kg	2
Cadmium	7440-43-9	6020B	0.052	J	0.18	0.034	mg/kg	1
Calcium	7440-70-2	6020B	7000		140	41	mg/kg	1
Chromium	7440-47-3	6020B	12		1.7	0.76	mg/kg	1
Cobalt	7440-48-4	6020B	25		1.7	0.41	mg/kg	1
Copper	7440-50-8	6020B	120		1.7	0.45	mg/kg	1
Iron	7439-89-6	6020B	60000	D	89	17	mg/kg	2
Lead	7439-92-1	6020B	3.3		0.34	0.094	mg/kg	1
Magnesium	7439-95-4	6020B	7700		140	34	mg/kg	1
Manganese	7439-96-5	6020B	380	D	8.6	2.5	mg/kg	2
Mercury	7439-97-6	7471B	0.034	J	0.099	0.024	mg/kg	1
Nickel	7440-02-0	6020B	19		1.7	0.41	mg/kg	1
Potassium	7440-09-7	6020B	3100		140	34	mg/kg	1
Selenium	7782-49-2	6020B	1.7	U	1.7	0.65	mg/kg	1
Silver	7440-22-4	6020B	0.34	U	0.34	0.083	mg/kg	1
Sodium	7440-23-5	6020B	250		140	50	mg/kg	1
Thallium	7440-28-0	6020B	0.13	J	0.17	0.041	mg/kg	1
Vanadium	7440-62-2	6020B	120		1.7	0.34	mg/kg	1
Zinc	7440-66-6	6020B	93		3.4	0.69	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-010	
Description: B5-2		Matrix: Solid	
Date Sampled: 10/21/2021 1030	Project Name: Former Intermet-Lynchburg	% Solids: 79.6	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1719	AAB	11/03/2021 1412	21126

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.63	U	0.63	0.25	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-010
Description: B5-2			Matrix: Solid
Date Sampled: 10/21/2021 1030	Project Name: Former Intermet-Lynchburg		% Solids: 79.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1713	JM1		20033	7.57

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.017	U	0.017	0.0066	mg/Kg	1
Benzene	71-43-2	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Bromoform	75-25-2	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0041	U	0.0041	0.0025	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.017	U	0.017	0.0033	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Chloroform	67-66-3	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0041	U	0.0041	0.0025	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0041	U	0.0041	0.0025	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.0083	U	0.0083	0.0033	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.0083	U	0.0083	0.0033	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Styrene	100-42-5	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Toluene	108-88-3	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-010
Description: B5-2		Matrix: Solid
Date Sampled: 10/21/2021 1030	Project Name: Former Intermet-Lynchburg	% Solids: 79.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1713	JM1		20033	7.57

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0041	U	0.0041	0.0025	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0041	U	0.0041	0.0017	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		117	47-138
1,2-Dichloroethane-d4		114	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-010
Description: B5-2			Matrix: Solid
Date Sampled: 10/21/2021 1030	Project Name: Former Intermet-Lynchburg		% Solids: 79.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/03/2021 1423	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.0034	U	0.0034	0.0010	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.0034	U	0.0034	0.0012	mg/Kg	1
Acetophenone	98-86-2	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Anthracene	120-12-7	8270E	0.0034	U	0.0034	0.00063	mg/Kg	1
Atrazine	1912-24-9	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.0034	U	0.0034	0.00073	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	0.00083	BJ	0.0034	0.00082	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	0.00079	J	0.0034	0.00062	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.0012	BJ	0.0034	0.00081	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.0034	U	0.0034	0.00060	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.016	U	0.016	0.0062	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.016	UL	0.016	0.0062	mg/Kg	1
Caprolactam	105-60-2	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Carbazole	86-74-8	8270E	0.016	U	0.016	0.0062	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.016	U	0.016	0.0062	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.016	U	0.016	0.0062	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.016	U	0.016	0.0062	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.016	U	0.016	0.0062	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.016	U	0.016	0.0062	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.016	U	0.016	0.0062	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.016	U	0.016	0.0062	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Chrysene	218-01-9	8270E	0.0034	U	0.0034	0.00056	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.0034	U	0.0034	0.00063	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.016	U	0.016	0.0062	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.016	U	0.016	0.0062	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.016	U	0.016	0.0092	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.028		0.016	0.0062	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.083	U	0.083	0.031	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.083	U	0.083	0.031	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.034	U	0.034	0.012	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.034	U	0.034	0.012	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.016	U	0.016	0.0062	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.041	U	0.041	0.012	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.083	U	0.083	0.031	mg/Kg	1
Fluoranthene	206-44-0	8270E	0.00068	J	0.0034	0.00052	mg/Kg	1
Fluorene	86-73-7	8270E	0.0034	U	0.0034	0.00071	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.016	U	0.016	0.0062	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-010
Description: B5-2		Matrix: Solid
Date Sampled: 10/21/2021 1030	Project Name: Former Intermet-Lynchburg	% Solids: 79.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/03/2021 1423	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.083	U	0.083	0.031	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.0034	U	0.0034	0.0012	mg/Kg	1
Isophorone	78-59-1	8270E	0.016	U	0.016	0.0062	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.0034	U	0.0034	0.0012	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.016	U	0.016	0.0062	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.034	U	0.034	0.012	mg/Kg	1
Naphthalene	91-20-3	8270E	0.0034	U	0.0034	0.0012	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.034	U	0.034	0.012	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.034	U	0.034	0.012	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.034	U	0.034	0.012	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.016	U	0.016	0.0062	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.034	U	0.034	0.012	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.083	U	0.083	0.031	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.016	U	0.016	0.0062	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.083	U	0.083	0.031	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.0034	U	0.0034	0.00089	mg/Kg	1
Phenol	108-95-2	8270E	0.016	U	0.016	0.0062	mg/Kg	1
Pyrene	129-00-0	8270E	0.0034	U	0.0034	0.00062	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.041	U	0.041	0.012	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.083	U	0.083	0.012	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.016	U	0.016	0.0062	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.016	U	0.016	0.0062	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		49	33-102
2-Fluorophenol		56	35-115
Nitrobenzene-d5		58	22-109
Phenol-d5		62	33-122
Terphenyl-d14		55	41-120
2,4,6-Tribromophenol		72	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-010
Description: B5-2			Matrix: Solid
Date Sampled: 10/21/2021 1030	Project Name: Former Intermet-Lynchburg		% Solids: 79.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/08/2021 1443	BNW	10/27/2021 0915	20129
1	7471B	7471B	1	11/02/2021 1509	CMS2	11/01/2021 1211	20141
2	3050B	6020B	5	11/08/2021 1601	BNW	10/27/2021 0915	20129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	17000		12	2.9	mg/kg	1
Antimony	7440-36-0	6020B	0.58	U	0.58	0.23	mg/kg	1
Arsenic	7440-38-2	6020B	4.8		0.58	0.23	mg/kg	1
Barium	7440-39-3	6020B	140		1.4	0.36	mg/kg	1
Beryllium	7440-41-7	6020B	1.6	D	0.58	0.20	mg/kg	2
Cadmium	7440-43-9	6020B	0.10	J	0.15	0.029	mg/kg	1
Calcium	7440-70-2	6020B	950		120	35	mg/kg	1
Chromium	7440-47-3	6020B	21		1.4	0.64	mg/kg	1
Cobalt	7440-48-4	6020B	9.1		1.4	0.35	mg/kg	1
Copper	7440-50-8	6020B	27		1.4	0.37	mg/kg	1
Iron	7439-89-6	6020B	32000	D	75	14	mg/kg	2
Lead	7439-92-1	6020B	19		0.29	0.078	mg/kg	1
Magnesium	7439-95-4	6020B	2500		120	29	mg/kg	1
Manganese	7439-96-5	6020B	220	D	7.2	2.1	mg/kg	2
Mercury	7439-97-6	7471B	0.091	U	0.091	0.022	mg/kg	1
Nickel	7440-02-0	6020B	20		1.4	0.35	mg/kg	1
Potassium	7440-09-7	6020B	2000		120	29	mg/kg	1
Selenium	7782-49-2	6020B	1.0	J	1.4	0.55	mg/kg	1
Silver	7440-22-4	6020B	0.29	U	0.29	0.069	mg/kg	1
Sodium	7440-23-5	6020B	88	J	120	42	mg/kg	1
Thallium	7440-28-0	6020B	0.37		0.14	0.035	mg/kg	1
Vanadium	7440-62-2	6020B	37		1.4	0.29	mg/kg	1
Zinc	7440-66-6	6020B	86		2.9	0.58	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-011	
Description: B10-1		Matrix: Solid	
Date Sampled: 10/21/2021 1330	Project Name: Former Intermet-Lynchburg	% Solids: 81.8	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1720	AAB	11/03/2021 1412	21126

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.61	U	0.61	0.24	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-011
Description: B10-1			Matrix: Solid
Date Sampled: 10/21/2021 1330	Project Name: Former Intermet-Lynchburg		% Solids: 81.8 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/08/2021 1446	BNW	10/27/2021 0915	20129
1	7471B	7471B	1	11/02/2021 1512	CMS2	11/01/2021 1211	20141
2	3050B	6020B	5	11/08/2021 1603	BNW	10/27/2021 0915	20129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	13000		11	2.7	mg/kg	1
Antimony	7440-36-0	6020B	0.53	U	0.53	0.21	mg/kg	1
Arsenic	7440-38-2	6020B	0.66		0.53	0.21	mg/kg	1
Barium	7440-39-3	6020B	230	D	6.6	1.6	mg/kg	2
Beryllium	7440-41-7	6020B	1.3	D	0.53	0.18	mg/kg	2
Cadmium	7440-43-9	6020B	0.16		0.14	0.027	mg/kg	1
Calcium	7440-70-2	6020B	1800		110	32	mg/kg	1
Chromium	7440-47-3	6020B	12		1.3	0.59	mg/kg	1
Cobalt	7440-48-4	6020B	45		1.3	0.32	mg/kg	1
Copper	7440-50-8	6020B	110		1.3	0.34	mg/kg	1
Iron	7439-89-6	6020B	75000	D	69	13	mg/kg	2
Lead	7439-92-1	6020B	23		0.27	0.072	mg/kg	1
Magnesium	7439-95-4	6020B	4300		110	27	mg/kg	1
Manganese	7439-96-5	6020B	690	D	6.6	1.9	mg/kg	2
Mercury	7439-97-6	7471B	0.087	U	0.087	0.021	mg/kg	1
Nickel	7440-02-0	6020B	22		1.3	0.32	mg/kg	1
Potassium	7440-09-7	6020B	2500		110	27	mg/kg	1
Selenium	7782-49-2	6020B	0.55	J	1.3	0.50	mg/kg	1
Silver	7440-22-4	6020B	0.27	U	0.27	0.064	mg/kg	1
Sodium	7440-23-5	6020B	55	J	110	39	mg/kg	1
Thallium	7440-28-0	6020B	0.11	J	0.13	0.032	mg/kg	1
Vanadium	7440-62-2	6020B	140		1.3	0.27	mg/kg	1
Zinc	7440-66-6	6020B	140		2.7	0.53	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-012	
Description: B11-1		Matrix: Solid	
Date Sampled: 10/21/2021 1540	Project Name: Former Intermet-Lynchburg	% Solids: 63.6	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1721	AAB	11/03/2021 1412	21126

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.79	U	0.79	0.31	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-012
Description: B11-1			Matrix: Solid
Date Sampled: 10/21/2021 1540	Project Name: Former Intermet-Lynchburg		% Solids: 63.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1737	JM1		20033	5.68

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.028	U	0.028	0.011	mg/Kg	1
Benzene	71-43-2	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Bromoform	75-25-2	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0069	U	0.0069	0.0042	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.028	U	0.028	0.0055	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Chloroform	67-66-3	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0069	U	0.0069	0.0042	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0069	U	0.0069	0.0042	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.014	U	0.014	0.0055	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.014	U	0.014	0.0055	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Styrene	100-42-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Toluene	108-88-3	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-012
Description: B11-1		Matrix: Solid
Date Sampled: 10/21/2021 1540	Project Name: Former Intermet-Lynchburg	% Solids: 63.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1737	JM1		20033	5.68

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0069	U	0.0069	0.0042	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0069	U	0.0069	0.0028	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		108	47-138
1,2-Dichloroethane-d4		108	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-012	
Description: B11-1		Matrix: Solid	
Date Sampled: 10/21/2021 1540	Project Name: Former Intermet-Lynchburg	% Solids: 63.6	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1856	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.031	JD	0.042	0.013	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.063	D	0.042	0.015	mg/Kg	1
Acetophenone	98-86-2	8270E	0.20	U	0.20	0.077	mg/Kg	1
Anthracene	120-12-7	8270E	0.11	BD	0.042	0.0079	mg/Kg	1
Atrazine	1912-24-9	8270E	0.20	U	0.20	0.077	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.20	U	0.20	0.077	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.61	D	0.042	0.0091	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	0.75	BD	0.042	0.010	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	1.0	D	0.042	0.0077	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.32	BD	0.042	0.010	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.35	D	0.042	0.0074	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.20	U	0.20	0.077	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.20	U	0.20	0.077	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.20	UL	0.20	0.077	mg/Kg	1
Caprolactam	105-60-2	8270E	0.20	U	0.20	0.077	mg/Kg	1
Carbazole	86-74-8	8270E	0.20	U	0.20	0.077	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.20	U	0.20	0.077	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.20	U	0.20	0.077	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.20	U	0.20	0.077	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.20	U	0.20	0.077	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.20	U	0.20	0.077	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.20	U	0.20	0.077	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.20	U	0.20	0.077	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.20	U	0.20	0.077	mg/Kg	1
Chrysene	218-01-9	8270E	0.71	D	0.042	0.0070	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.042	U	0.042	0.0079	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.20	U	0.20	0.077	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.20	U	0.20	0.077	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.20	U	0.20	0.077	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.20	U	0.20	0.077	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.20	U	0.20	0.11	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.20	U	0.20	0.077	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.20	U	0.20	0.077	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	1.0	U	1.0	0.39	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	1.0	U	1.0	0.39	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.42	U	0.42	0.15	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.42	U	0.42	0.15	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.20	U	0.20	0.077	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.51	U	0.51	0.15	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	1.0	U	1.0	0.39	mg/Kg	1
Fluoranthene	206-44-0	8270E	1.2	D	0.042	0.0065	mg/Kg	1
Fluorene	86-73-7	8270E	0.023	JD	0.042	0.0088	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.20	U	0.20	0.077	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.20	U	0.20	0.077	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-012
Description: B11-1		Matrix: Solid
Date Sampled: 10/21/2021 1540	Project Name: Former Intermet-Lynchburg	% Solids: 63.6 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	10	12/03/2021 1856	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	1.0	U	1.0	0.39	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.20	U	0.20	0.077	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.31	D	0.042	0.015	mg/Kg	1
Isophorone	78-59-1	8270E	0.20	U	0.20	0.077	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.038	JD	0.042	0.015	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.20	U	0.20	0.077	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.42	U	0.42	0.15	mg/Kg	1
Naphthalene	91-20-3	8270E	0.053	D	0.042	0.015	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.42	U	0.42	0.15	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.42	U	0.42	0.15	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.42	U	0.42	0.15	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.20	U	0.20	0.077	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.42	U	0.42	0.15	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	1.0	U	1.0	0.39	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.20	U	0.20	0.077	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.20	U	0.20	0.077	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	1.0	U	1.0	0.39	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.41	BD	0.042	0.011	mg/Kg	1
Phenol	108-95-2	8270E	0.20	U	0.20	0.077	mg/Kg	1
Pyrene	129-00-0	8270E	0.90	BD	0.042	0.0077	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.51	U	0.51	0.15	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	1.0	U	1.0	0.15	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.20	U	0.20	0.077	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.20	U	0.20	0.077	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		74	33-102
2-Fluorophenol		44	35-115
Nitrobenzene-d5		78	22-109
Phenol-d5		57	33-122
Terphenyl-d14		82	41-120
2,4,6-Tribromophenol		51	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-012	
Description: B11-1		Matrix: Solid	
Date Sampled: 10/21/2021 1540	Project Name: Former Intermet-Lynchburg	% Solids: 63.6	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/08/2021 1448	BNW	10/27/2021 0915	20129
1	7471B	7471B	1	11/02/2021 1514	CMS2	11/01/2021 1211	20141
2	3050B	6020B	5	11/08/2021 1605	BNW	10/27/2021 0915	20129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	30000	D	71	18	mg/kg	2
Antimony	7440-36-0	6020B	0.67	J	0.71	0.28	mg/kg	1
Arsenic	7440-38-2	6020B	6.0		0.71	0.28	mg/kg	1
Barium	7440-39-3	6020B	280	D	8.9	2.2	mg/kg	2
Beryllium	7440-41-7	6020B	1.6	D	0.71	0.24	mg/kg	2
Cadmium	7440-43-9	6020B	0.26		0.18	0.035	mg/kg	1
Calcium	7440-70-2	6020B	61000	D	710	210	mg/kg	2
Chromium	7440-47-3	6020B	32		1.8	0.78	mg/kg	1
Cobalt	7440-48-4	6020B	17		1.8	0.43	mg/kg	1
Copper	7440-50-8	6020B	56		1.8	0.46	mg/kg	1
Iron	7439-89-6	6020B	59000	D	92	18	mg/kg	2
Lead	7439-92-1	6020B	86		0.35	0.096	mg/kg	1
Magnesium	7439-95-4	6020B	7200		140	35	mg/kg	1
Manganese	7439-96-5	6020B	1000	D	8.9	2.6	mg/kg	2
Mercury	7439-97-6	7471B	0.36		0.12	0.030	mg/kg	1
Nickel	7440-02-0	6020B	28		1.8	0.43	mg/kg	1
Potassium	7440-09-7	6020B	4400		140	35	mg/kg	1
Selenium	7782-49-2	6020B	1.2	J	1.8	0.67	mg/kg	1
Silver	7440-22-4	6020B	0.099	J	0.35	0.085	mg/kg	1
Sodium	7440-23-5	6020B	160		140	52	mg/kg	1
Thallium	7440-28-0	6020B	0.51		0.18	0.043	mg/kg	1
Vanadium	7440-62-2	6020B	57		1.8	0.35	mg/kg	1
Zinc	7440-66-6	6020B	160		3.5	0.71	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-013	
Description: B11-2		Matrix: Solid	
Date Sampled: 10/21/2021 1545	Project Name: Former Intermet-Lynchburg	% Solids: 85.1	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1722	AAB	11/03/2021 1412	21126

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.59	U	0.59	0.24	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-013
Description: B11-2			Matrix: Solid
Date Sampled: 10/21/2021 1545	Project Name: Former Intermet-Lynchburg		% Solids: 85.1 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1801	JM1		20033	6.58

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.018	U	0.018	0.0071	mg/Kg	1
Benzene	71-43-2	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Bromoform	75-25-2	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0045	U	0.0045	0.0027	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.018	U	0.018	0.0036	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Chloroform	67-66-3	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0045	U	0.0045	0.0027	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0045	U	0.0045	0.0027	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.0089	U	0.0089	0.0036	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.0089	U	0.0089	0.0036	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Styrene	100-42-5	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Toluene	108-88-3	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-013
Description: B11-2			Matrix: Solid
Date Sampled: 10/21/2021 1545	Project Name: Former Intermet-Lynchburg		% Solids: 85.1 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1801	JM1		20033	6.58

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0045	U	0.0045	0.0027	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0045	U	0.0045	0.0018	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		112	47-138
1,2-Dichloroethane-d4		111	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-013
Description: B11-2			Matrix: Solid
Date Sampled: 10/21/2021 1545	Project Name: Former Intermet-Lynchburg		% Solids: 85.1 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/03/2021 1448	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.0032	U	0.0032	0.00097	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.0032	U	0.0032	0.0011	mg/Kg	1
Acetophenone	98-86-2	8270E	0.015	U	0.015	0.0059	mg/Kg	1
Anthracene	120-12-7	8270E	0.0032	U	0.0032	0.00060	mg/Kg	1
Atrazine	1912-24-9	8270E	0.015	U	0.015	0.0059	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.015	U	0.015	0.0059	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.0032	U	0.0032	0.00069	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	0.0032	U	0.0032	0.00077	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	0.0032	U	0.0032	0.00059	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.0032	U	0.0032	0.00076	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.0032	U	0.0032	0.00056	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.015	U	0.015	0.0059	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.015	U	0.015	0.0059	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.015	UL	0.015	0.0059	mg/Kg	1
Caprolactam	105-60-2	8270E	0.015	U	0.015	0.0059	mg/Kg	1
Carbazole	86-74-8	8270E	0.015	U	0.015	0.0059	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.015	U	0.015	0.0059	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.015	U	0.015	0.0059	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.015	U	0.015	0.0059	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.015	U	0.015	0.0059	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.015	U	0.015	0.0059	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.015	U	0.015	0.0059	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.015	U	0.015	0.0059	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.015	U	0.015	0.0059	mg/Kg	1
Chrysene	218-01-9	8270E	0.0032	U	0.0032	0.00053	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.0032	U	0.0032	0.00060	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.015	U	0.015	0.0059	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.015	U	0.015	0.0059	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.015	U	0.015	0.0059	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.015	U	0.015	0.0059	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.015	U	0.015	0.0087	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.015	U	0.015	0.0059	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.023		0.015	0.0059	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.079	U	0.079	0.029	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.079	U	0.079	0.029	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.032	U	0.032	0.012	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.032	U	0.032	0.012	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.015	U	0.015	0.0059	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.039	U	0.039	0.012	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.079	U	0.079	0.029	mg/Kg	1
Fluoranthene	206-44-0	8270E	0.0032	U	0.0032	0.00049	mg/Kg	1
Fluorene	86-73-7	8270E	0.0032	U	0.0032	0.00067	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.015	U	0.015	0.0059	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.015	U	0.015	0.0059	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-013
Description: B11-2		Matrix: Solid
Date Sampled: 10/21/2021 1545	Project Name: Former Intermet-Lynchburg	% Solids: 85.1 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/03/2021 1448	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.079	U	0.079	0.029	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.015	U	0.015	0.0059	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.0032	U	0.0032	0.0012	mg/Kg	1
Isophorone	78-59-1	8270E	0.015	U	0.015	0.0059	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.0032	U	0.0032	0.0012	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.015	U	0.015	0.0059	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.032	U	0.032	0.012	mg/Kg	1
Naphthalene	91-20-3	8270E	0.0032	U	0.0032	0.0011	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.032	U	0.032	0.012	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.032	U	0.032	0.012	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.032	U	0.032	0.012	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.015	U	0.015	0.0059	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.032	U	0.032	0.012	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.079	U	0.079	0.029	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.015	U	0.015	0.0059	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.015	U	0.015	0.0059	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.079	U	0.079	0.029	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.0032	U	0.0032	0.00084	mg/Kg	1
Phenol	108-95-2	8270E	0.015	U	0.015	0.0059	mg/Kg	1
Pyrene	129-00-0	8270E	0.0032	U	0.0032	0.00059	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.039	U	0.039	0.012	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.079	U	0.079	0.012	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.015	U	0.015	0.0059	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.015	U	0.015	0.0059	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		64	33-102
2-Fluorophenol		53	35-115
Nitrobenzene-d5		78	22-109
Phenol-d5		71	33-122
Terphenyl-d14		65	41-120
2,4,6-Tribromophenol		93	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-013	
Description: B11-2		Matrix: Solid	
Date Sampled: 10/21/2021 1545	Project Name: Former Intermet-Lynchburg	% Solids: 85.1	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/08/2021 1450	BNW	10/27/2021 0915	20129
1	7471B	7471B	1	11/02/2021 1522	CMS2	11/01/2021 1211	20141
2	3050B	6020B	5	11/08/2021 1607	BNW	10/27/2021 0915	20129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	13000		9.8	2.5	mg/kg	1
Antimony	7440-36-0	6020B	0.49	U	0.49	0.20	mg/kg	1
Arsenic	7440-38-2	6020B	6.6		0.49	0.20	mg/kg	1
Barium	7440-39-3	6020B	170	D	6.1	1.5	mg/kg	2
Beryllium	7440-41-7	6020B	1.0	D	0.49	0.17	mg/kg	2
Cadmium	7440-43-9	6020B	0.33		0.13	0.025	mg/kg	1
Calcium	7440-70-2	6020B	1600		98	29	mg/kg	1
Chromium	7440-47-3	6020B	16		1.2	0.54	mg/kg	1
Cobalt	7440-48-4	6020B	14		1.2	0.29	mg/kg	1
Copper	7440-50-8	6020B	16		1.2	0.32	mg/kg	1
Iron	7439-89-6	6020B	25000	D	64	12	mg/kg	2
Lead	7439-92-1	6020B	18		0.25	0.067	mg/kg	1
Magnesium	7439-95-4	6020B	2000		98	25	mg/kg	1
Manganese	7439-96-5	6020B	640	D	6.1	1.8	mg/kg	2
Mercury	7439-97-6	7471B	0.087	U	0.087	0.021	mg/kg	1
Nickel	7440-02-0	6020B	26		1.2	0.29	mg/kg	1
Potassium	7440-09-7	6020B	1600		98	25	mg/kg	1
Selenium	7782-49-2	6020B	0.56	J	1.2	0.46	mg/kg	1
Silver	7440-22-4	6020B	0.25	U	0.25	0.059	mg/kg	1
Sodium	7440-23-5	6020B	64	J	98	36	mg/kg	1
Thallium	7440-28-0	6020B	0.25		0.12	0.029	mg/kg	1
Vanadium	7440-62-2	6020B	28		1.2	0.25	mg/kg	1
Zinc	7440-66-6	6020B	83		2.5	0.49	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-014	
Description: B12-1		Matrix: Solid	
Date Sampled: 10/21/2021 1425	Project Name: Former Intermet-Lynchburg	% Solids: 86.1	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1723	AAB	11/03/2021 1412	21126

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.58	U	0.58	0.23	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-014
Description: B12-1			Matrix: Solid
Date Sampled: 10/21/2021 1425	Project Name: Former Intermet-Lynchburg		% Solids: 86.1 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1825	JM1		20033	4.16

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.028	U	0.028	0.011	mg/Kg	1
Benzene	71-43-2	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Bromoform	75-25-2	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0070	U	0.0070	0.0042	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.028	U	0.028	0.0056	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Chloroform	67-66-3	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0070	U	0.0070	0.0042	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0070	U	0.0070	0.0042	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.014	U	0.014	0.0056	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.014	U	0.014	0.0056	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Styrene	100-42-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Toluene	108-88-3	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-014
Description: B12-1		Matrix: Solid
Date Sampled: 10/21/2021 1425	Project Name: Former Intermet-Lynchburg	% Solids: 86.1 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1825	JM1		20033	4.16

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0035	J	0.0070	0.0028	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0070	U	0.0070	0.0042	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0070	U	0.0070	0.0028	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		108	47-138
1,2-Dichloroethane-d4		105	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-014
Description: B12-1			Matrix: Solid
Date Sampled: 10/21/2021 1425	Project Name: Former Intermet-Lynchburg		% Solids: 86.1 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	20	12/10/2021 2132	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.21	D	0.063	0.019	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.48	D	0.063	0.022	mg/Kg	1
Acetophenone	98-86-2	8270E	0.30	U	0.30	0.12	mg/Kg	1
Anthracene	120-12-7	8270E	1.0	BD	0.063	0.012	mg/Kg	1
Atrazine	1912-24-9	8270E	0.30	U	0.30	0.12	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.30	U	0.30	0.12	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	3.7	D	0.063	0.014	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	4.1	BD	0.063	0.015	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	4.7	D	0.063	0.012	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	1.3	BD	0.063	0.015	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	1.7	D	0.063	0.011	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.30	U	0.30	0.12	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.30	U	0.30	0.12	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.30	UL	0.30	0.12	mg/Kg	1
Caprolactam	105-60-2	8270E	0.30	U	0.30	0.12	mg/Kg	1
Carbazole	86-74-8	8270E	0.30	U	0.30	0.12	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.30	U	0.30	0.12	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.30	U	0.30	0.12	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.30	U	0.30	0.12	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.30	U	0.30	0.12	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.30	U	0.30	0.12	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.30	U	0.30	0.12	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.30	U	0.30	0.12	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.30	U	0.30	0.12	mg/Kg	1
Chrysene	218-01-9	8270E	3.2	D	0.063	0.010	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.42	BD	0.063	0.012	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.23	JD	0.30	0.12	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.30	U	0.30	0.12	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.30	U	0.30	0.12	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.30	U	0.30	0.12	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.30	U	0.30	0.17	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.30	U	0.30	0.12	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.30	U	0.30	0.12	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	1.6	U	1.6	0.58	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	1.6	U	1.6	0.58	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.63	U	0.63	0.23	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.63	U	0.63	0.23	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.30	U	0.30	0.12	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.77	U	0.77	0.23	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	1.6	U	1.6	0.58	mg/Kg	1
Fluoranthene	206-44-0	8270E	6.6	D	0.063	0.0097	mg/Kg	1
Fluorene	86-73-7	8270E	0.26	D	0.063	0.013	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.30	U	0.30	0.12	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.30	U	0.30	0.12	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-014
Description: B12-1		Matrix: Solid
Date Sampled: 10/21/2021 1425	Project Name: Former Intermet-Lynchburg	% Solids: 86.1 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	20	12/10/2021 2132	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	1.6	U	1.6	0.58	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.30	U	0.30	0.12	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.063	U	0.063	0.023	mg/Kg	1
Isophorone	78-59-1	8270E	0.30	U	0.30	0.12	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.32	D	0.063	0.023	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.30	U	0.30	0.12	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.63	U	0.63	0.23	mg/Kg	1
Naphthalene	91-20-3	8270E	0.68	D	0.063	0.022	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.63	U	0.63	0.23	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.63	U	0.63	0.23	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.63	U	0.63	0.23	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.30	U	0.30	0.12	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.63	U	0.63	0.23	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	1.6	U	1.6	0.58	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.30	U	0.30	0.12	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.30	U	0.30	0.12	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	1.6	U	1.6	0.58	mg/Kg	1
Phenanthrene	85-01-8	8270E	2.2	BD	0.063	0.017	mg/Kg	1
Phenol	108-95-2	8270E	0.30	U	0.30	0.12	mg/Kg	1
Pyrene	129-00-0	8270E	5.5	BD	0.063	0.012	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.77	U	0.77	0.23	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	1.6	U	1.6	0.23	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.30	U	0.30	0.12	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.30	U	0.30	0.12	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		72	33-102
2-Fluorophenol		53	35-115
Nitrobenzene-d5		48	22-109
Phenol-d5		42	33-122
Terphenyl-d14		70	41-120
2,4,6-Tribromophenol		37	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-014
Description: B12-1			Matrix: Solid
Date Sampled: 10/21/2021 1425	Project Name: Former Intermet-Lynchburg		% Solids: 86.1 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6020B	1	11/05/2021 1208	BNW	11/02/2021 0412	20772
1	7471B	7471B	1	11/02/2021 1525	CMS2	11/01/2021 1211	20141
2	3050B	6020B	20	11/05/2021 1635	BNW	11/02/2021 0412	20772
3	3050B	6020B	1	11/08/2021 1343	BNW	11/02/2021 0412	20772

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	16000	D	200	51	mg/kg	2
Antimony	7440-36-0	6020B	0.32	J	0.51	0.20	mg/kg	1
Arsenic	7440-38-2	6020B	7.8		0.51	0.20	mg/kg	1
Barium	7440-39-3	6020B	140	D	25	6.3	mg/kg	2
Beryllium	7440-41-7	6020B	0.86		0.10	0.034	mg/kg	3
Cadmium	7440-43-9	6020B	0.44		0.13	0.025	mg/kg	1
Calcium	7440-70-2	6020B	26000	D	2000	610	mg/kg	2
Chromium	7440-47-3	6020B	22		1.3	0.56	mg/kg	1
Cobalt	7440-48-4	6020B	14		1.3	0.30	mg/kg	1
Copper	7440-50-8	6020B	79	B	1.3	0.33	mg/kg	1
Iron	7439-89-6	6020B	27000	D	260	51	mg/kg	2
Lead	7439-92-1	6020B	74		0.25	0.069	mg/kg	1
Magnesium	7439-95-4	6020B	4200		100	25	mg/kg	1
Manganese	7439-96-5	6020B	510	D	25	7.4	mg/kg	2
Mercury	7439-97-6	7471B	0.21		0.092	0.022	mg/kg	1
Nickel	7440-02-0	6020B	24		1.3	0.30	mg/kg	1
Potassium	7440-09-7	6020B	2400		100	25	mg/kg	1
Selenium	7782-49-2	6020B	0.51	J	1.3	0.48	mg/kg	1
Silver	7440-22-4	6020B	0.18	J	0.25	0.061	mg/kg	1
Sodium	7440-23-5	6020B	62	J	100	37	mg/kg	1
Thallium	7440-28-0	6020B	0.33		0.13	0.030	mg/kg	1
Vanadium	7440-62-2	6020B	44		1.3	0.25	mg/kg	1
Zinc	7440-66-6	6020B	120	D	51	10	mg/kg	2

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates		Laboratory ID: WJ22078-015	
Description: B12-2		Matrix: Solid	
Date Sampled: 10/21/2021 1430	Project Name: Former Intermet-Lynchburg	% Solids: 68.5	10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/03/2021 1727	AAB	11/03/2021 1412	21126

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.30	J	0.73	0.29	mg/kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-015
Description: B12-2			Matrix: Solid
Date Sampled: 10/21/2021 1430	Project Name: Former Intermet-Lynchburg		% Solids: 68.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1849	JM1		20033	8.33

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.088		0.018	0.0070	mg/Kg	1
Benzene	71-43-2	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Bromoform	75-25-2	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0044	U	0.0044	0.0026	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.026		0.018	0.0035	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Chloroform	67-66-3	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0044	U	0.0044	0.0026	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0044	U	0.0044	0.0026	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.0088	U	0.0088	0.0035	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.0088	U	0.0088	0.0035	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Styrene	100-42-5	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Toluene	108-88-3	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-015
Description: B12-2		Matrix: Solid
Date Sampled: 10/21/2021 1430	Project Name: Former Intermet-Lynchburg	% Solids: 68.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1849	JM1		20033	8.33

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0044	U	0.0044	0.0026	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0044	U	0.0044	0.0018	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		112	47-138
1,2-Dichloroethane-d4		105	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-015
Description: B12-2			Matrix: Solid
Date Sampled: 10/21/2021 1430	Project Name: Former Intermet-Lynchburg		% Solids: 68.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	5	12/03/2021 1945	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.069	D	0.020	0.0060	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.020	U	0.020	0.0069	mg/Kg	1
Acetophenone	98-86-2	8270E	0.094	U	0.094	0.036	mg/Kg	1
Anthracene	120-12-7	8270E	0.075	BD	0.020	0.0037	mg/Kg	1
Atrazine	1912-24-9	8270E	0.094	U	0.094	0.036	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.094	U	0.094	0.036	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.059	D	0.020	0.0043	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	0.057	BD	0.020	0.0048	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	0.066	D	0.020	0.0036	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.018	BJD	0.020	0.0047	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.040	D	0.020	0.0035	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.094	U	0.094	0.036	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.094	U	0.094	0.036	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.094	UL	0.094	0.036	mg/Kg	1
Caprolactam	105-60-2	8270E	0.094	U	0.094	0.036	mg/Kg	1
Carbazole	86-74-8	8270E	0.094	U	0.094	0.036	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.094	U	0.094	0.036	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.094	U	0.094	0.036	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.094	U	0.094	0.036	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.094	U	0.094	0.036	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.094	U	0.094	0.036	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.094	U	0.094	0.036	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.094	U	0.094	0.036	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.094	U	0.094	0.036	mg/Kg	1
Chrysene	218-01-9	8270E	0.069	D	0.020	0.0033	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.020	U	0.020	0.0037	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.042	JD	0.094	0.036	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.094	U	0.094	0.036	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.094	U	0.094	0.036	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.094	U	0.094	0.036	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.094	U	0.094	0.054	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.094	U	0.094	0.036	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.094	U	0.094	0.036	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.49	U	0.49	0.18	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.49	U	0.49	0.18	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.20	U	0.20	0.073	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.20	U	0.20	0.073	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.094	U	0.094	0.036	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.24	U	0.24	0.073	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.49	U	0.49	0.18	mg/Kg	1
Fluoranthene	206-44-0	8270E	0.13	D	0.020	0.0030	mg/Kg	1
Fluorene	86-73-7	8270E	0.11	D	0.020	0.0041	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.094	U	0.094	0.036	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.094	U	0.094	0.036	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-015
Description: B12-2		Matrix: Solid
Date Sampled: 10/21/2021 1430	Project Name: Former Intermet-Lynchburg	% Solids: 68.5 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	5	12/03/2021 1945	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.49	U	0.49	0.18	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.094	U	0.094	0.036	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.019	JD	0.020	0.0073	mg/Kg	1
Isophorone	78-59-1	8270E	0.094	U	0.094	0.036	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.050	D	0.020	0.0072	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.094	U	0.094	0.036	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.20	U	0.20	0.073	mg/Kg	1
Naphthalene	91-20-3	8270E	0.094	D	0.020	0.0070	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.20	U	0.20	0.073	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.20	U	0.20	0.073	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.20	U	0.20	0.073	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.094	U	0.094	0.036	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.20	U	0.20	0.073	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.49	U	0.49	0.18	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.094	U	0.094	0.036	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.094	U	0.094	0.036	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.49	U	0.49	0.18	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.13	BD	0.020	0.0052	mg/Kg	1
Phenol	108-95-2	8270E	0.094	U	0.094	0.036	mg/Kg	1
Pyrene	129-00-0	8270E	0.095	BD	0.020	0.0036	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.24	U	0.24	0.073	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.49	U	0.49	0.073	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.094	U	0.094	0.036	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.094	U	0.094	0.036	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		89	33-102
2-Fluorophenol		69	35-115
Nitrobenzene-d5		90	22-109
Phenol-d5		94	33-122
Terphenyl-d14		86	41-120
2,4,6-Tribromophenol		96	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-016
Description: B12-3			Matrix: Solid
Date Sampled: 10/21/2021 1435	Project Name: Former Intermet-Lynchburg		% Solids: 82.1 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1914	JM1		20033	5.02

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	0.026		0.024	0.0097	mg/Kg	1
Benzene	71-43-2	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Bromochloromethane	74-97-5	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Bromodichloromethane	75-27-4	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Bromoform	75-25-2	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.0061	U	0.0061	0.0036	mg/Kg	1
2-Butanone (MEK)	78-93-3	8260D	0.024	U	0.024	0.0049	mg/Kg	1
Carbon disulfide	75-15-0	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Carbon tetrachloride	56-23-5	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Chlorobenzene	108-90-7	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Chloroethane	75-00-3	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Chloroform	67-66-3	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.0061	U	0.0061	0.0036	mg/Kg	1
Cyclohexane	110-82-7	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Dibromochloromethane	124-48-1	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
1,2-Dichlorobenzene	95-50-1	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
1,3-Dichlorobenzene	541-73-1	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
1,4-Dichlorobenzene	106-46-7	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Dichlorodifluoromethane	75-71-8	8260D	0.0061	U	0.0061	0.0036	mg/Kg	1
1,1-Dichloroethane	75-34-3	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
1,2-Dichloroethane	107-06-2	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
1,1-Dichloroethene	75-35-4	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
1,2-Dichloropropane	78-87-5	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Ethylbenzene	100-41-4	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
2-Hexanone	591-78-6	8260D	0.012	U	0.012	0.0049	mg/Kg	1
Isopropylbenzene	98-82-8	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Methyl acetate	79-20-9	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
4-Methyl-2-pentanone	108-10-1	8260D	0.012	U	0.012	0.0049	mg/Kg	1
Methylcyclohexane	108-87-2	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Methylene chloride	75-09-2	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Styrene	100-42-5	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Tetrachloroethene	127-18-4	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Toluene	108-88-3	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-016
Description: B12-3		Matrix: Solid
Date Sampled: 10/21/2021 1435	Project Name: Former Intermet-Lynchburg	% Solids: 82.1 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	10/25/2021 1914	JM1		20033	5.02

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
1,1,2-Trichloroethane	79-00-5	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Trichloroethene	79-01-6	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Trichlorofluoromethane	75-69-4	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
Vinyl chloride	75-01-4	8260D	0.0061	U	0.0061	0.0036	mg/Kg	1
m+p - Xylenes	179601-23-1	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1
o - Xylenes	95-47-6	8260D	0.0061	U	0.0061	0.0024	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		116	47-138
1,2-Dichloroethane-d4		102	53-142
Toluene-d8		106	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-016
Description: B12-3			Matrix: Solid
Date Sampled: 10/21/2021 1435	Project Name: Former Intermet-Lynchburg		% Solids: 82.1 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/10/2021 2156	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.0033	U	0.0033	0.0010	mg/Kg	1
Acenaphthylene	208-96-8	8270E	0.0033	U	0.0033	0.0012	mg/Kg	1
Acetophenone	98-86-2	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Anthracene	120-12-7	8270E	0.0033	U	0.0033	0.00062	mg/Kg	1
Atrazine	1912-24-9	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Benzaldehyde	100-52-7	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Benzo(a)anthracene	56-55-3	8270E	0.0033	U	0.0033	0.00072	mg/Kg	1
Benzo(a)pyrene	50-32-8	8270E	0.0033	U	0.0033	0.00080	mg/Kg	1
Benzo(b)fluoranthene	205-99-2	8270E	0.0033	U	0.0033	0.00061	mg/Kg	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.0033	U	0.0033	0.00079	mg/Kg	1
Benzo(k)fluoranthene	207-08-9	8270E	0.0033	U	0.0033	0.00058	mg/Kg	1
1,1'-Biphenyl	92-52-4	8270E	0.016	U	0.016	0.0061	mg/Kg	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Butyl benzyl phthalate	85-68-7	8270E	0.016	UL	0.016	0.0061	mg/Kg	1
Caprolactam	105-60-2	8270E	0.0091	J	0.016	0.0061	mg/Kg	1
Carbazole	86-74-8	8270E	0.016	U	0.016	0.0061	mg/Kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.016	U	0.016	0.0061	mg/Kg	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.016	U	0.016	0.0061	mg/Kg	1
4-Chloroaniline	106-47-8	8270E	0.016	U	0.016	0.0061	mg/Kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.016	U	0.016	0.0061	mg/Kg	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.016	U	0.016	0.0061	mg/Kg	1
2-Chloronaphthalene	91-58-7	8270E	0.016	U	0.016	0.0061	mg/Kg	1
2-Chlorophenol	95-57-8	8270E	0.016	U	0.016	0.0061	mg/Kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Chrysene	218-01-9	8270E	0.0033	U	0.0033	0.00055	mg/Kg	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.0033	U	0.0033	0.00062	mg/Kg	1
Dibenzofuran	132-64-9	8270E	0.016	U	0.016	0.0061	mg/Kg	1
3,3'-Dichlorobenzidine	91-94-1	8270E	0.016	U	0.016	0.0061	mg/Kg	1
2,4-Dichlorophenol	120-83-2	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Diethylphthalate	84-66-2	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Dimethyl phthalate	131-11-3	8270E	0.016	U	0.016	0.0090	mg/Kg	1
2,4-Dimethylphenol	105-67-9	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Di-n-butyl phthalate	84-74-2	8270E	0.021		0.016	0.0061	mg/Kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	0.082	U	0.082	0.030	mg/Kg	1
2,4-Dinitrophenol	51-28-5	8270E	0.082	U	0.082	0.030	mg/Kg	1
2,4-Dinitrotoluene	121-14-2	8270E	0.033	U	0.033	0.012	mg/Kg	1
2,6-Dinitrotoluene	606-20-2	8270E	0.033	U	0.033	0.012	mg/Kg	1
Di-n-octylphthalate	117-84-0	8270E	0.016	U	0.016	0.0061	mg/Kg	1
1,4-Dioxane	123-91-1	8270E	0.040	U	0.040	0.012	mg/Kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.082	U	0.082	0.030	mg/Kg	1
Fluoranthene	206-44-0	8270E	0.0033	U	0.0033	0.00051	mg/Kg	1
Fluorene	86-73-7	8270E	0.0033	U	0.0033	0.00069	mg/Kg	1
Hexachlorobenzene	118-74-1	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Hexachlorobutadiene	87-68-3	8270E	0.016	U	0.016	0.0061	mg/Kg	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WJ22078-016
Description: B12-3			Matrix: Solid
Date Sampled: 10/21/2021 1435	Project Name: Former Intermet-Lynchburg		% Solids: 82.1 10/24/2021 1941
Date Received: 10/22/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270E	1	12/10/2021 2156	JCG	11/03/2021 1915	21183

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	0.082	U	0.082	0.030	mg/Kg	1
Hexachloroethane	67-72-1	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.0033	U	0.0033	0.0012	mg/Kg	1
Isophorone	78-59-1	8270E	0.016	U	0.016	0.0061	mg/Kg	1
2-Methylnaphthalene	91-57-6	8270E	0.0033	U	0.0033	0.0012	mg/Kg	1
2-Methylphenol	95-48-7	8270E	0.016	U	0.016	0.0061	mg/Kg	1
3+4-Methylphenol	106-44-5	8270E	0.033	U	0.033	0.012	mg/Kg	1
Naphthalene	91-20-3	8270E	0.0033	U	0.0033	0.0012	mg/Kg	1
2-Nitroaniline	88-74-4	8270E	0.033	U	0.033	0.012	mg/Kg	1
3-Nitroaniline	99-09-2	8270E	0.033	U	0.033	0.012	mg/Kg	1
4-Nitroaniline	100-01-6	8270E	0.033	U	0.033	0.012	mg/Kg	1
Nitrobenzene	98-95-3	8270E	0.016	U	0.016	0.0061	mg/Kg	1
2-Nitrophenol	88-75-5	8270E	0.033	U	0.033	0.012	mg/Kg	1
4-Nitrophenol	100-02-7	8270E	0.082	U	0.082	0.030	mg/Kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.016	U	0.016	0.0061	mg/Kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Pentachlorophenol	87-86-5	8270E	0.082	U	0.082	0.030	mg/Kg	1
Phenanthrene	85-01-8	8270E	0.0033	U	0.0033	0.00088	mg/Kg	1
Phenol	108-95-2	8270E	0.016	U	0.016	0.0061	mg/Kg	1
Pyrene	129-00-0	8270E	0.0033	U	0.0033	0.00061	mg/Kg	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.040	U	0.040	0.012	mg/Kg	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.082	U	0.082	0.012	mg/Kg	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.016	U	0.016	0.0061	mg/Kg	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.016	U	0.016	0.0061	mg/Kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		54	33-102
2-Fluorophenol		79	35-115
Nitrobenzene-d5		66	22-109
Phenol-d5		74	33-122
Terphenyl-d14		81	41-120
2,4,6-Tribromophenol		76	30-117

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates	Laboratory ID: WJ22078-017
Description: Trip Blank 2	Matrix: Aqueous
Date Sampled: 10/22/2021	Project Name: Former Intermet-Lynchburg
Date Received: 10/22/2021	Project Number: B12188B-10HM

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/03/2021 1332	CAW		21141

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	10	U	10	4.0	ug/L	1
Benzene	71-43-2	8260D	0.50	U	0.50	0.40	ug/L	1
Bromochloromethane	74-97-5	8260D	0.50	U	0.50	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	0.50	U	0.50	0.40	ug/L	1
Bromoform	75-25-2	8260D	0.50	U	0.50	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.50	U	0.50	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	10	U	10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	0.50	U	0.50	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	0.50	U	0.50	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	0.50	U	0.50	0.40	ug/L	1
Chloroethane	75-00-3	8260D	0.50	U	0.50	0.40	ug/L	1
Chloroform	67-66-3	8260D	0.50	U	0.50	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.50	U	0.50	0.40	ug/L	1
Cyclohexane	110-82-7	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.50	U	0.50	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	0.50	U	0.50	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	0.50	U	0.50	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	0.50	U	0.50	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	0.50	U	0.50	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.50	U	0.50	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	0.50	U	0.50	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.50	U	0.50	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.50	U	0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	0.50	U	0.50	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	10	U	10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	0.50	U	0.50	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	1.0	U	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.50	UL	0.50	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	10	U	10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	5.0	U	5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	0.50	U	0.50	0.40	ug/L	1
Styrene	100-42-5	8260D	0.50	U	0.50	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.50	U	0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	0.50	U	0.50	0.40	ug/L	1
Toluene	108-88-3	8260D	0.50	U	0.50	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	1.0	U	1.0	0.42	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.50	U	0.50	0.40	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.50	U	0.50	0.40	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates		Laboratory ID: WJ22078-017
Description: Trip Blank 2		Matrix: Aqueous
Date Sampled: 10/22/2021	Project Name: Former Intermet-Lynchburg	
Date Received: 10/22/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/03/2021 1332	CAW		21141

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.50	U	0.50	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	0.50	U	0.50	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	0.50	U	0.50	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	0.50	U	0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	0.50	U	0.50	0.40	ug/L	1
m+p - Xylenes	179601-23-1	8260D	0.50	U	0.50	0.40	ug/L	1
o - Xylenes	95-47-6	8260D	0.50	U	0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		D = Dilution > 1	S = MS/MSD failure

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QC Summary

Inorganic non-metals - MB

Sample ID: WQ21095-001
Batch: 21095
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/03/2021 1120

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Cyanide - Total	0.50	U	1	0.50	0.20	mg/kg	11/03/2021 1646

LOQ = Limit of Quantitation
DL = Detection Limit

U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - LCS

Sample ID: WQ21095-002
Batch: 21095
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/03/2021 1120

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Cyanide - Total	5.0	5.4		1	107	90-110	11/03/2021 1647

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - MS

Sample ID: WJ22078-003MS
Batch: 21095
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/03/2021 1120

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Cyanide - Total	0.0	6.1	6.2		1	101	90-110	11/03/2021 1700

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - MSD

Sample ID: WJ22078-003MD
Batch: 21095
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/03/2021 1120

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Cyanide - Total	0.0	6.1	6.8		1	110	9.0	90-110	20	11/03/2021 1701

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - MB

Sample ID: WQ21126-001
Batch: 21126
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/03/2021 1412

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Cyanide - Total	0.50	U	1	0.50	0.20	mg/kg	11/03/2021 1707

LOQ = Limit of Quantitation
DL = Detection Limit

U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - LCS

Sample ID: WQ21126-002
Batch: 21126
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/03/2021 1412

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Cyanide - Total	5.0	5.4		1	108	90-110	11/03/2021 1708

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - MS

Sample ID: WJ22078-008MS
Batch: 21126
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/03/2021 1412

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Cyanide - Total	0.50	6.1	6.5		1	99	90-110	11/03/2021 1715

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - MSD

Sample ID: WJ22078-008MD
Batch: 21126
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 11/03/2021 1412

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Cyanide - Total	0.50	6.1	6.6		1	99	0.39	90-110	20	11/03/2021 1716

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ20009-001
Batch: 20009
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	0.020	U	1	0.020	0.0080	mg/kg	10/25/2021 1008
Benzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Bromochloromethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Bromodichloromethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Bromoform	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Bromomethane (Methyl bromide)	0.0050	U	1	0.0050	0.0030	mg/kg	10/25/2021 1008
2-Butanone (MEK)	0.020	U	1	0.020	0.0040	mg/kg	10/25/2021 1008
Carbon disulfide	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Carbon tetrachloride	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Chlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Chloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Chloroform	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Chloromethane (Methyl chloride)	0.0050	U	1	0.0050	0.0030	mg/kg	10/25/2021 1008
Cyclohexane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2-Dibromo-3-chloropropane (DBCP)	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Dibromochloromethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2-Dibromoethane (EDB)	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2-Dichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,3-Dichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,4-Dichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Dichlorodifluoromethane	0.0050	U	1	0.0050	0.0030	mg/kg	10/25/2021 1008
1,1-Dichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2-Dichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,1-Dichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
cis-1,2-Dichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
trans-1,2-Dichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2-Dichloropropane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
cis-1,3-Dichloropropene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
trans-1,3-Dichloropropene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Ethylbenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
2-Hexanone	0.010	U	1	0.010	0.0040	mg/kg	10/25/2021 1008
Isopropylbenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Methyl acetate	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Methyl tertiary butyl ether (MTBE)	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
4-Methyl-2-pentanone	0.010	U	1	0.010	0.0040	mg/kg	10/25/2021 1008
Methylcyclohexane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Methylene chloride	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Styrene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,1,2,2-Tetrachloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Tetrachloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Toluene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2,3-Trichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,2,4-Trichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ20009-001
Batch: 20009
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,1,1-Trichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
1,1,2-Trichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Trichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Trichlorofluoromethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
Vinyl chloride	0.0050	U	1	0.0050	0.0030	mg/kg	10/25/2021 1008
m+p - Xylenes	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008
o - Xylenes	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1008

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		84	53-142
Toluene-d8		97	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20009-002
Batch: 20009
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	0.10	0.099		1	99	60-140	10/25/2021 0922
Benzene	0.050	0.049		1	97	70-130	10/25/2021 0922
Bromochloromethane	0.050	0.050		1	100	70-130	10/25/2021 0922
Bromodichloromethane	0.050	0.048		1	97	70-130	10/25/2021 0922
Bromoform	0.050	0.051		1	102	70-130	10/25/2021 0922
Bromomethane (Methyl bromide)	0.050	0.054		1	107	70-130	10/25/2021 0922
2-Butanone (MEK)	0.10	0.097		1	97	60-140	10/25/2021 0922
Carbon disulfide	0.050	0.051		1	101	70-130	10/25/2021 0922
Carbon tetrachloride	0.050	0.048		1	96	70-130	10/25/2021 0922
Chlorobenzene	0.050	0.048		1	96	70-130	10/25/2021 0922
Chloroethane	0.050	0.051		1	102	70-130	10/25/2021 0922
Chloroform	0.050	0.049		1	98	70-130	10/25/2021 0922
Chloromethane (Methyl chloride)	0.050	0.053		1	106	60-140	10/25/2021 0922
Cyclohexane	0.050	0.041		1	83	70-130	10/25/2021 0922
1,2-Dibromo-3-chloropropane (DBCP)	0.050	0.047		1	93	70-130	10/25/2021 0922
Dibromochloromethane	0.050	0.049		1	99	70-130	10/25/2021 0922
1,2-Dibromoethane (EDB)	0.050	0.047		1	95	70-130	10/25/2021 0922
1,2-Dichlorobenzene	0.050	0.049		1	97	70-130	10/25/2021 0922
1,3-Dichlorobenzene	0.050	0.048		1	96	70-130	10/25/2021 0922
1,4-Dichlorobenzene	0.050	0.048		1	96	70-130	10/25/2021 0922
Dichlorodifluoromethane	0.050	0.045		1	91	60-140	10/25/2021 0922
1,1-Dichloroethane	0.050	0.049		1	98	70-130	10/25/2021 0922
1,2-Dichloroethane	0.050	0.049		1	98	70-130	10/25/2021 0922
1,1-Dichloroethene	0.050	0.049		1	99	70-130	10/25/2021 0922
cis-1,2-Dichloroethene	0.050	0.049		1	99	70-130	10/25/2021 0922
trans-1,2-Dichloroethene	0.050	0.050		1	99	70-130	10/25/2021 0922
1,2-Dichloropropane	0.050	0.048		1	96	70-130	10/25/2021 0922
cis-1,3-Dichloropropene	0.050	0.047		1	95	70-130	10/25/2021 0922
trans-1,3-Dichloropropene	0.050	0.048		1	95	70-130	10/25/2021 0922
Ethylbenzene	0.050	0.048		1	96	70-130	10/25/2021 0922
2-Hexanone	0.10	0.091		1	91	70-130	10/25/2021 0922
Isopropylbenzene	0.050	0.050		1	100	70-130	10/25/2021 0922
Methyl acetate	0.050	0.047		1	93	70-130	10/25/2021 0922
Methyl tertiary butyl ether (MTBE)	0.050	0.051		1	103	70-130	10/25/2021 0922
4-Methyl-2-pentanone	0.10	0.093		1	93	70-130	10/25/2021 0922
Methylcyclohexane	0.050	0.043		1	85	70-130	10/25/2021 0922
Methylene chloride	0.050	0.051		1	102	70-130	10/25/2021 0922
Styrene	0.050	0.049		1	98	70-130	10/25/2021 0922
1,1,2,2-Tetrachloroethane	0.050	0.046		1	92	70-130	10/25/2021 0922
Tetrachloroethene	0.050	0.049		1	98	70-130	10/25/2021 0922
Toluene	0.050	0.046		1	93	70-130	10/25/2021 0922
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.050	0.043		1	85	70-130	10/25/2021 0922
1,2,3-Trichlorobenzene	0.050	0.051		1	102	70-130	10/25/2021 0922
1,2,4-Trichlorobenzene	0.050	0.050		1	101	70-130	10/25/2021 0922

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20009-002
Batch: 20009
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,1,1-Trichloroethane	0.050	0.048		1	97	70-130	10/25/2021 0922
1,1,2-Trichloroethane	0.050	0.047		1	93	70-130	10/25/2021 0922
Trichloroethene	0.050	0.050		1	99	70-130	10/25/2021 0922
Trichlorofluoromethane	0.050	0.046		1	91	70-130	10/25/2021 0922
Vinyl chloride	0.050	0.052		1	105	70-130	10/25/2021 0922
m+p - Xylenes	0.050	0.049		1	97	70-130	10/25/2021 0922
o - Xylenes	0.050	0.049		1	98	70-130	10/25/2021 0922

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	47-138
1,2-Dichloroethane-d4		96	53-142
Toluene-d8		94	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: WJ22078-003MS
Batch: 20009
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	0.069	0.19	0.29		1	118	70-130	10/25/2021 1907
Benzene	0.00	0.095	0.10		1	106	70-130	10/25/2021 1907
Bromochloromethane	0.00	0.095	0.098		1	102	70-130	10/25/2021 1907
Bromodichloromethane	0.00	0.095	0.10		1	110	70-130	10/25/2021 1907
Bromoform	0.00	0.095	0.095		1	99	70-130	10/25/2021 1907
Bromomethane (Methyl bromide)	0.00	0.095	0.11		1	110	70-130	10/25/2021 1907
2-Butanone (MEK)	0.026	0.19	0.24		1	113	70-130	10/25/2021 1907
Carbon disulfide	0.0055	0.095	0.095		1	94	70-130	10/25/2021 1907
Carbon tetrachloride	0.00	0.095	0.11		1	110	70-130	10/25/2021 1907
Chlorobenzene	0.00	0.095	0.088		1	92	70-130	10/25/2021 1907
Chloroethane	0.00	0.095	0.10		1	108	70-130	10/25/2021 1907
Chloroform	0.00	0.095	0.11		1	116	70-130	10/25/2021 1907
Chloromethane (Methyl chloride)	0.00	0.095	0.11		1	111	60-140	10/25/2021 1907
Cyclohexane	0.00	0.095	0.21	N	1	222	70-130	10/25/2021 1907
1,2-Dibromo-3-chloropropane (DBCP)	0.00	0.095	0.11		1	117	70-130	10/25/2021 1907
Dibromochloromethane	0.00	0.095	0.10		1	107	70-130	10/25/2021 1907
1,2-Dibromoethane (EDB)	0.00	0.095	0.097		1	102	70-130	10/25/2021 1907
1,2-Dichlorobenzene	0.00	0.095	0.080		1	84	70-130	10/25/2021 1907
1,3-Dichlorobenzene	0.00	0.095	0.081		1	85	70-130	10/25/2021 1907
1,4-Dichlorobenzene	0.00	0.095	0.074		1	77	70-130	10/25/2021 1907
Dichlorodifluoromethane	0.00	0.095	0.12		1	128	60-140	10/25/2021 1907
1,1-Dichloroethane	0.00	0.095	0.10		1	107	70-130	10/25/2021 1907
1,2-Dichloroethane	0.00	0.095	0.097		1	101	70-130	10/25/2021 1907
1,1-Dichloroethene	0.00	0.095	0.10		1	108	70-130	10/25/2021 1907
cis-1,2-Dichloroethene	0.00	0.095	0.096		1	100	70-130	10/25/2021 1907
trans-1,2-Dichloroethene	0.00	0.095	0.095		1	100	70-130	10/25/2021 1907
1,2-Dichloropropane	0.00	0.095	0.10		1	107	70-130	10/25/2021 1907
cis-1,3-Dichloropropene	0.00	0.095	0.094		1	98	70-130	10/25/2021 1907
trans-1,3-Dichloropropene	0.00	0.095	0.094		1	98	70-130	10/25/2021 1907
Ethylbenzene	0.00	0.095	0.099		1	104	70-130	10/25/2021 1907
2-Hexanone	0.00	0.19	0.22		1	117	70-130	10/25/2021 1907
Isopropylbenzene	0.00	0.095	0.097		1	102	70-130	10/25/2021 1907
Methyl acetate	0.00	0.095	0.13	N	1	140	70-130	10/25/2021 1907
Methyl tertiary butyl ether (MTBE)	0.00	0.095	0.11		1	113	70-130	10/25/2021 1907
4-Methyl-2-pentanone	0.00	0.19	0.21		1	108	70-130	10/25/2021 1907
Methylcyclohexane	0.00	0.095	0.12		1	124	70-130	10/25/2021 1907
Methylene chloride	0.00	0.095	0.10		1	109	70-130	10/25/2021 1907
Styrene	0.00	0.095	0.075		1	79	70-130	10/25/2021 1907
1,1,2,2-Tetrachloroethane	0.00	0.095	0.13	N	1	140	70-130	10/25/2021 1907
Tetrachloroethene	0.00	0.095	0.11		1	112	70-130	10/25/2021 1907
Toluene	0.00	0.095	0.10		1	109	70-130	10/25/2021 1907
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.00	0.095	0.11		1	119	70-130	10/25/2021 1907
1,2,3-Trichlorobenzene	0.00	0.095	0.035	N	1	37	70-130	10/25/2021 1907
1,2,4-Trichlorobenzene	0.00	0.095	0.038	N	1	40	70-130	10/25/2021 1907

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: WJ22078-003MS
Batch: 20009
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,1,1-Trichloroethane	0.00	0.095	0.10		1	108	70-130	10/25/2021 1907
1,1,2-Trichloroethane	0.00	0.095	0.11		1	114	70-130	10/25/2021 1907
Trichloroethene	0.00	0.095	0.096		1	101	70-130	10/25/2021 1907
Trichlorofluoromethane	0.00	0.095	0.10		1	105	70-130	10/25/2021 1907
Vinyl chloride	0.00	0.095	0.11		1	114	70-130	10/25/2021 1907
m+p - Xylenes	0.00	0.095	0.094		1	98	70-130	10/25/2021 1907
o - Xylenes	0.00	0.095	0.092		1	97	70-130	10/25/2021 1907

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		84	47-138
1,2-Dichloroethane-d4		84	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: WJ22078-003MD
Batch: 20009
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Acetone	0.069	0.16	0.21	+	1	85	35	70-130	20	10/25/2021 1930
Benzene	0.00	0.081	0.078	+	1	96	26	70-130	20	10/25/2021 1930
Bromochloromethane	0.00	0.081	0.074	+	1	91	27	70-130	20	10/25/2021 1930
Bromodichloromethane	0.00	0.081	0.078	+	1	96	30	70-130	20	10/25/2021 1930
Bromoform	0.00	0.081	0.068	+	1	84	33	70-130	20	10/25/2021 1930
Bromomethane (Methyl bromide)	0.00	0.081	0.086		1	107	20	70-130	20	10/25/2021 1930
2-Butanone (MEK)	0.026	0.16	0.18	+	1	95	29	70-130	20	10/25/2021 1930
Carbon disulfide	0.0055	0.081	0.074	+	1	85	25	70-130	20	10/25/2021 1930
Carbon tetrachloride	0.00	0.081	0.084	+	1	104	23	70-130	20	10/25/2021 1930
Chlorobenzene	0.00	0.081	0.066	+	1	82	28	70-130	20	10/25/2021 1930
Chloroethane	0.00	0.081	0.084		1	103	20	70-130	20	10/25/2021 1930
Chloroform	0.00	0.081	0.081	+	1	99	32	70-130	20	10/25/2021 1930
Chloromethane (Methyl chloride)	0.00	0.081	0.088		1	108	19	60-140	20	10/25/2021 1930
Cyclohexane	0.00	0.081	0.11	N,+	1	140	61	70-130	20	10/25/2021 1930
1,2-Dibromo-3-chloropropane (DBCP)	0.00	0.081	0.074	+	1	92	40	70-130	20	10/25/2021 1930
Dibromochloromethane	0.00	0.081	0.075	+	1	93	31	70-130	20	10/25/2021 1930
1,2-Dibromoethane (EDB)	0.00	0.081	0.069	+	1	85	34	70-130	20	10/25/2021 1930
1,2-Dichlorobenzene	0.00	0.081	0.058	+	1	71	32	70-130	20	10/25/2021 1930
1,3-Dichlorobenzene	0.00	0.081	0.057	+	1	71	34	70-130	20	10/25/2021 1930
1,4-Dichlorobenzene	0.00	0.081	0.052	N,+	1	64	35	70-130	20	10/25/2021 1930
Dichlorodifluoromethane	0.00	0.081	0.10		1	126	18	60-140	20	10/25/2021 1930
1,1-Dichloroethane	0.00	0.081	0.081	+	1	100	23	70-130	20	10/25/2021 1930
1,2-Dichloroethane	0.00	0.081	0.076	+	1	93	24	70-130	20	10/25/2021 1930
1,1-Dichloroethene	0.00	0.081	0.083	+	1	102	21	70-130	20	10/25/2021 1930
cis-1,2-Dichloroethene	0.00	0.081	0.074	+	1	91	26	70-130	20	10/25/2021 1930
trans-1,2-Dichloroethene	0.00	0.081	0.074	+	1	91	25	70-130	20	10/25/2021 1930
1,2-Dichloropropane	0.00	0.081	0.081	+	1	100	23	70-130	20	10/25/2021 1930
cis-1,3-Dichloropropene	0.00	0.081	0.069	+	1	85	30	70-130	20	10/25/2021 1930
trans-1,3-Dichloropropene	0.00	0.081	0.066	+	1	81	35	70-130	20	10/25/2021 1930
Ethylbenzene	0.00	0.081	0.074	+	1	91	29	70-130	20	10/25/2021 1930
2-Hexanone	0.00	0.16	0.16	+	1	99	33	70-130	20	10/25/2021 1930
Isopropylbenzene	0.00	0.081	0.073	+	1	90	29	70-130	20	10/25/2021 1930
Methyl acetate	0.00	0.081	0.093	+	1	115	36	70-130	20	10/25/2021 1930
Methyl tertiary butyl ether (MTBE)	0.00	0.081	0.087	+	1	108	21	70-130	20	10/25/2021 1930
4-Methyl-2-pentanone	0.00	0.16	0.16	+	1	100	23	70-130	20	10/25/2021 1930
Methylcyclohexane	0.00	0.081	0.094	+	1	116	23	70-130	20	10/25/2021 1930
Methylene chloride	0.00	0.081	0.081	+	1	100	24	70-130	20	10/25/2021 1930
Styrene	0.00	0.081	0.058	+	1	71	26	70-130	20	10/25/2021 1930
1,1,2,2-Tetrachloroethane	0.00	0.081	0.093	+	1	115	36	70-130	20	10/25/2021 1930
Tetrachloroethene	0.00	0.081	0.083	+	1	103	25	70-130	20	10/25/2021 1930
Toluene	0.00	0.081	0.079	+	1	97	27	70-130	20	10/25/2021 1930
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.00	0.081	0.093		1	115	20	70-130	20	10/25/2021 1930
1,2,3-Trichlorobenzene	0.00	0.081	0.028	N,+	1	35	21	70-130	20	10/25/2021 1930
1,2,4-Trichlorobenzene	0.00	0.081	0.030	N,+	1	37	23	70-130	20	10/25/2021 1930

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: WJ22078-003MD
Batch: 20009
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
1,1,1-Trichloroethane	0.00	0.081	0.083	+	1	102	22	70-130	20	10/25/2021 1930
1,1,2-Trichloroethane	0.00	0.081	0.083	+	1	102	27	70-130	20	10/25/2021 1930
Trichloroethene	0.00	0.081	0.077	+	1	95	22	70-130	20	10/25/2021 1930
Trichlorofluoromethane	0.00	0.081	0.088		1	109	13	70-130	20	10/25/2021 1930
Vinyl chloride	0.00	0.081	0.089	+	1	109	21	70-130	20	10/25/2021 1930
m+p - Xylenes	0.00	0.081	0.071	+	1	87	28	70-130	20	10/25/2021 1930
o - Xylenes	0.00	0.081	0.070	+	1	87	27	70-130	20	10/25/2021 1930

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		89	47-138
1,2-Dichloroethane-d4		84	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ20033-001
Batch: 20033
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	0.020	U	1	0.020	0.0080	mg/kg	10/25/2021 1010
Benzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Bromochloromethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Bromodichloromethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Bromoform	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Bromomethane (Methyl bromide)	0.0050	U	1	0.0050	0.0030	mg/kg	10/25/2021 1010
2-Butanone (MEK)	0.020	U	1	0.020	0.0040	mg/kg	10/25/2021 1010
Carbon disulfide	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Carbon tetrachloride	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Chlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Chloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Chloroform	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Chloromethane (Methyl chloride)	0.0050	U	1	0.0050	0.0030	mg/kg	10/25/2021 1010
Cyclohexane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
1,2-Dibromo-3-chloropropane (DBCP)	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Dibromochloromethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
1,2-Dibromoethane (EDB)	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
1,2-Dichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
1,3-Dichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
1,4-Dichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Dichlorodifluoromethane	0.0050	U	1	0.0050	0.0030	mg/kg	10/25/2021 1010
1,1-Dichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
1,2-Dichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
1,1-Dichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
cis-1,2-Dichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
trans-1,2-Dichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
1,2-Dichloropropane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
cis-1,3-Dichloropropene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
trans-1,3-Dichloropropene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Ethylbenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
2-Hexanone	0.010	U	1	0.010	0.0040	mg/kg	10/25/2021 1010
Isopropylbenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Methyl acetate	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Methyl tertiary butyl ether (MTBE)	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
4-Methyl-2-pentanone	0.010	U	1	0.010	0.0040	mg/kg	10/25/2021 1010
Methylcyclohexane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Methylene chloride	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Styrene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
1,1,2,2-Tetrachloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Tetrachloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Toluene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
1,2,3-Trichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
1,2,4-Trichlorobenzene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ20033-001
Batch: 20033
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,1,1-Trichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
1,1,2-Trichloroethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Trichloroethene	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Trichlorofluoromethane	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
Vinyl chloride	0.0050	U	1	0.0050	0.0030	mg/kg	10/25/2021 1010
m+p - Xylenes	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010
o - Xylenes	0.0050	U	1	0.0050	0.0020	mg/kg	10/25/2021 1010

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		110	47-138
1,2-Dichloroethane-d4		97	53-142
Toluene-d8		97	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20033-002
Batch: 20033
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	0.10	0.10		1	103	60-140	10/25/2021 0921
Benzene	0.050	0.047		1	93	70-130	10/25/2021 0921
Bromochloromethane	0.050	0.047		1	95	70-130	10/25/2021 0921
Bromodichloromethane	0.050	0.049		1	98	70-130	10/25/2021 0921
Bromoform	0.050	0.052		1	104	70-130	10/25/2021 0921
Bromomethane (Methyl bromide)	0.050	0.046		1	93	70-130	10/25/2021 0921
2-Butanone (MEK)	0.10	0.096		1	96	60-140	10/25/2021 0921
Carbon disulfide	0.050	0.046		1	91	70-130	10/25/2021 0921
Carbon tetrachloride	0.050	0.044		1	89	70-130	10/25/2021 0921
Chlorobenzene	0.050	0.048		1	97	70-130	10/25/2021 0921
Chloroethane	0.050	0.047		1	94	70-130	10/25/2021 0921
Chloroform	0.050	0.046		1	92	70-130	10/25/2021 0921
Chloromethane (Methyl chloride)	0.050	0.048		1	96	60-140	10/25/2021 0921
Cyclohexane	0.050	0.039		1	78	70-130	10/25/2021 0921
1,2-Dibromo-3-chloropropane (DBCP)	0.050	0.049		1	98	70-130	10/25/2021 0921
Dibromochloromethane	0.050	0.052		1	104	70-130	10/25/2021 0921
1,2-Dibromoethane (EDB)	0.050	0.051		1	102	70-130	10/25/2021 0921
1,2-Dichlorobenzene	0.050	0.051		1	101	70-130	10/25/2021 0921
1,3-Dichlorobenzene	0.050	0.050		1	100	70-130	10/25/2021 0921
1,4-Dichlorobenzene	0.050	0.049		1	98	70-130	10/25/2021 0921
Dichlorodifluoromethane	0.050	0.042		1	83	60-140	10/25/2021 0921
1,1-Dichloroethane	0.050	0.045		1	90	70-130	10/25/2021 0921
1,2-Dichloroethane	0.050	0.047		1	94	70-130	10/25/2021 0921
1,1-Dichloroethene	0.050	0.044		1	88	70-130	10/25/2021 0921
cis-1,2-Dichloroethene	0.050	0.046		1	92	70-130	10/25/2021 0921
trans-1,2-Dichloroethene	0.050	0.046		1	91	70-130	10/25/2021 0921
1,2-Dichloropropane	0.050	0.048		1	95	70-130	10/25/2021 0921
cis-1,3-Dichloropropene	0.050	0.049		1	99	70-130	10/25/2021 0921
trans-1,3-Dichloropropene	0.050	0.052		1	104	70-130	10/25/2021 0921
Ethylbenzene	0.050	0.049		1	97	70-130	10/25/2021 0921
2-Hexanone	0.10	0.093		1	93	70-130	10/25/2021 0921
Isopropylbenzene	0.050	0.050		1	100	70-130	10/25/2021 0921
Methyl acetate	0.050	0.048		1	95	70-130	10/25/2021 0921
Methyl tertiary butyl ether (MTBE)	0.050	0.048		1	96	70-130	10/25/2021 0921
4-Methyl-2-pentanone	0.10	0.094		1	94	70-130	10/25/2021 0921
Methylcyclohexane	0.050	0.039		1	78	70-130	10/25/2021 0921
Methylene chloride	0.050	0.044		1	88	70-130	10/25/2021 0921
Styrene	0.050	0.049		1	97	70-130	10/25/2021 0921
1,1,2,2-Tetrachloroethane	0.050	0.051		1	103	70-130	10/25/2021 0921
Tetrachloroethene	0.050	0.049		1	98	70-130	10/25/2021 0921
Toluene	0.050	0.046		1	92	70-130	10/25/2021 0921
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.050	0.039		1	78	70-130	10/25/2021 0921
1,2,3-Trichlorobenzene	0.050	0.053		1	105	70-130	10/25/2021 0921
1,2,4-Trichlorobenzene	0.050	0.051		1	103	70-130	10/25/2021 0921

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ20033-002
Batch: 20033
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,1,1-Trichloroethane	0.050	0.045		1	89	70-130	10/25/2021 0921
1,1,2-Trichloroethane	0.050	0.050		1	101	70-130	10/25/2021 0921
Trichloroethene	0.050	0.047		1	94	70-130	10/25/2021 0921
Trichlorofluoromethane	0.050	0.042		1	84	70-130	10/25/2021 0921
Vinyl chloride	0.050	0.047		1	93	70-130	10/25/2021 0921
m+p - Xylenes	0.050	0.048		1	96	70-130	10/25/2021 0921
o - Xylenes	0.050	0.049		1	98	70-130	10/25/2021 0921

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		91	47-138
1,2-Dichloroethane-d4		93	53-142
Toluene-d8		89	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: WJ22078-008MS
Batch: 20033
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	0.026	0.086	0.070	N	1	51	70-130	10/25/2021 1938
Benzene	0.00	0.043	0.042		1	98	70-130	10/25/2021 1938
Bromochloromethane	0.00	0.043	0.039		1	91	70-130	10/25/2021 1938
Bromodichloromethane	0.00	0.043	0.038		1	87	70-130	10/25/2021 1938
Bromoform	0.00	0.043	0.034		1	79	70-130	10/25/2021 1938
Bromomethane (Methyl bromide)	0.00	0.043	0.045		1	103	70-130	10/25/2021 1938
2-Butanone (MEK)	0.00	0.086	0.071		1	82	70-130	10/25/2021 1938
Carbon disulfide	0.00	0.043	0.047		1	108	70-130	10/25/2021 1938
Carbon tetrachloride	0.00	0.043	0.044		1	102	70-130	10/25/2021 1938
Chlorobenzene	0.00	0.043	0.035		1	80	70-130	10/25/2021 1938
Chloroethane	0.00	0.043	0.043		1	100	70-130	10/25/2021 1938
Chloroform	0.00	0.043	0.040		1	94	70-130	10/25/2021 1938
Chloromethane (Methyl chloride)	0.00	0.043	0.045		1	103	60-140	10/25/2021 1938
Cyclohexane	0.00	0.043	0.047		1	108	70-130	10/25/2021 1938
1,2-Dibromo-3-chloropropane (DBCP)	0.00	0.043	0.029	N	1	67	70-130	10/25/2021 1938
Dibromochloromethane	0.00	0.043	0.040		1	92	70-130	10/25/2021 1938
1,2-Dibromoethane (EDB)	0.00	0.043	0.035		1	81	70-130	10/25/2021 1938
1,2-Dichlorobenzene	0.00	0.043	0.029	N	1	66	70-130	10/25/2021 1938
1,3-Dichlorobenzene	0.00	0.043	0.029	N	1	68	70-130	10/25/2021 1938
1,4-Dichlorobenzene	0.00	0.043	0.028	N	1	65	70-130	10/25/2021 1938
Dichlorodifluoromethane	0.00	0.043	0.048		1	112	60-140	10/25/2021 1938
1,1-Dichloroethane	0.00	0.043	0.039		1	91	70-130	10/25/2021 1938
1,2-Dichloroethane	0.00	0.043	0.038		1	89	70-130	10/25/2021 1938
1,1-Dichloroethene	0.00	0.043	0.041		1	95	70-130	10/25/2021 1938
cis-1,2-Dichloroethene	0.00	0.043	0.040		1	94	70-130	10/25/2021 1938
trans-1,2-Dichloroethene	0.00	0.043	0.042		1	97	70-130	10/25/2021 1938
1,2-Dichloropropane	0.00	0.043	0.037		1	86	70-130	10/25/2021 1938
cis-1,3-Dichloropropene	0.00	0.043	0.036		1	83	70-130	10/25/2021 1938
trans-1,3-Dichloropropene	0.00	0.043	0.034		1	79	70-130	10/25/2021 1938
Ethylbenzene	0.00	0.043	0.035		1	80	70-130	10/25/2021 1938
2-Hexanone	0.00	0.086	0.067		1	77	70-130	10/25/2021 1938
Isopropylbenzene	0.00	0.043	0.035		1	80	70-130	10/25/2021 1938
Methyl acetate	0.00	0.043	0.048		1	111	70-130	10/25/2021 1938
Methyl tertiary butyl ether (MTBE)	0.00	0.043	0.037		1	87	70-130	10/25/2021 1938
4-Methyl-2-pentanone	0.00	0.086	0.068		1	78	70-130	10/25/2021 1938
Methylcyclohexane	0.00	0.043	0.042		1	98	70-130	10/25/2021 1938
Methylene chloride	0.00	0.043	0.039		1	89	70-130	10/25/2021 1938
Styrene	0.00	0.043	0.034		1	78	70-130	10/25/2021 1938
1,1,2,2-Tetrachloroethane	0.00	0.043	0.031		1	71	70-130	10/25/2021 1938
Tetrachloroethene	0.00	0.043	0.037		1	87	70-130	10/25/2021 1938
Toluene	0.00	0.043	0.038		1	89	70-130	10/25/2021 1938
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.00	0.043	0.042		1	97	70-130	10/25/2021 1938
1,2,3-Trichlorobenzene	0.00	0.043	0.020	N	1	47	70-130	10/25/2021 1938
1,2,4-Trichlorobenzene	0.00	0.043	0.022	N	1	50	70-130	10/25/2021 1938

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: WJ22078-008MS
Batch: 20033
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,1,1-Trichloroethane	0.00	0.043	0.042		1	98	70-130	10/25/2021 1938
1,1,2-Trichloroethane	0.00	0.043	0.035		1	81	70-130	10/25/2021 1938
Trichloroethene	0.00	0.043	0.039		1	90	70-130	10/25/2021 1938
Trichlorofluoromethane	0.00	0.043	0.044		1	102	70-130	10/25/2021 1938
Vinyl chloride	0.00	0.043	0.047		1	110	70-130	10/25/2021 1938
m+p - Xylenes	0.00	0.043	0.035		1	80	70-130	10/25/2021 1938
o - Xylenes	0.00	0.043	0.035		1	80	70-130	10/25/2021 1938

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		121	47-138
1,2-Dichloroethane-d4		111	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: WJ22078-008MD
Batch: 20033
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Acetone	0.026	0.097	0.11	+	1	84	42	70-130	20	10/25/2021 2002
Benzene	0.00	0.049	0.052	+	1	108	22	70-130	20	10/25/2021 2002
Bromochloromethane	0.00	0.049	0.058	+	1	118	38	70-130	20	10/25/2021 2002
Bromodichloromethane	0.00	0.049	0.053	+	1	110	35	70-130	20	10/25/2021 2002
Bromoform	0.00	0.049	0.053	+	1	109	44	70-130	20	10/25/2021 2002
Bromomethane (Methyl bromide)	0.00	0.049	0.056	+	1	115	23	70-130	20	10/25/2021 2002
2-Butanone (MEK)	0.00	0.097	0.10	+	1	106	38	70-130	20	10/25/2021 2002
Carbon disulfide	0.00	0.049	0.047		1	97	1.1	70-130	20	10/25/2021 2002
Carbon tetrachloride	0.00	0.049	0.041		1	85	6.4	70-130	20	10/25/2021 2002
Chlorobenzene	0.00	0.049	0.049	+	1	100	34	70-130	20	10/25/2021 2002
Chloroethane	0.00	0.049	0.051		1	105	16	70-130	20	10/25/2021 2002
Chloroform	0.00	0.049	0.051	+	1	105	24	70-130	20	10/25/2021 2002
Chloromethane (Methyl chloride)	0.00	0.049	0.053		1	108	17	60-140	20	10/25/2021 2002
Cyclohexane	0.00	0.049	0.047		1	97	1.2	70-130	20	10/25/2021 2002
1,2-Dibromo-3-chloropropane (DBCP)	0.00	0.049	0.053	+	1	109	59	70-130	20	10/25/2021 2002
Dibromochloromethane	0.00	0.049	0.061	+	1	125	42	70-130	20	10/25/2021 2002
1,2-Dibromoethane (EDB)	0.00	0.049	0.057	+	1	118	49	70-130	20	10/25/2021 2002
1,2-Dichlorobenzene	0.00	0.049	0.047	+	1	97	49	70-130	20	10/25/2021 2002
1,3-Dichlorobenzene	0.00	0.049	0.046	+	1	95	45	70-130	20	10/25/2021 2002
1,4-Dichlorobenzene	0.00	0.049	0.046	+	1	94	48	70-130	20	10/25/2021 2002
Dichlorodifluoromethane	0.00	0.049	0.056		1	115	15	60-140	20	10/25/2021 2002
1,1-Dichloroethane	0.00	0.049	0.047		1	97	17	70-130	20	10/25/2021 2002
1,2-Dichloroethane	0.00	0.049	0.057	+	1	117	39	70-130	20	10/25/2021 2002
1,1-Dichloroethene	0.00	0.049	0.042		1	86	1.4	70-130	20	10/25/2021 2002
cis-1,2-Dichloroethene	0.00	0.049	0.051	+	1	105	23	70-130	20	10/25/2021 2002
trans-1,2-Dichloroethene	0.00	0.049	0.048		1	98	13	70-130	20	10/25/2021 2002
1,2-Dichloropropane	0.00	0.049	0.051	+	1	105	31	70-130	20	10/25/2021 2002
cis-1,3-Dichloropropene	0.00	0.049	0.053	+	1	109	39	70-130	20	10/25/2021 2002
trans-1,3-Dichloropropene	0.00	0.049	0.054	+	1	111	44	70-130	20	10/25/2021 2002
Ethylbenzene	0.00	0.049	0.044	+	1	90	23	70-130	20	10/25/2021 2002
2-Hexanone	0.00	0.097	0.11	+	1	109	46	70-130	20	10/25/2021 2002
Isopropylbenzene	0.00	0.049	0.047	+	1	96	30	70-130	20	10/25/2021 2002
Methyl acetate	0.00	0.049	0.073	N,+	1	150	42	70-130	20	10/25/2021 2002
Methyl tertiary butyl ether (MTBE)	0.00	0.049	0.057	+	1	118	42	70-130	20	10/25/2021 2002
4-Methyl-2-pentanone	0.00	0.097	0.11	+	1	114	48	70-130	20	10/25/2021 2002
Methylcyclohexane	0.00	0.049	0.043		1	89	1.4	70-130	20	10/25/2021 2002
Methylene chloride	0.00	0.049	0.051	+	1	106	29	70-130	20	10/25/2021 2002
Styrene	0.00	0.049	0.046	+	1	95	32	70-130	20	10/25/2021 2002
1,1,2,2-Tetrachloroethane	0.00	0.049	0.056	+	1	116	58	70-130	20	10/25/2021 2002
Tetrachloroethene	0.00	0.049	0.046	+	1	95	21	70-130	20	10/25/2021 2002
Toluene	0.00	0.049	0.048	+	1	98	22	70-130	20	10/25/2021 2002
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.00	0.049	0.044		1	91	5.5	70-130	20	10/25/2021 2002
1,2,3-Trichlorobenzene	0.00	0.049	0.031	N,+	1	64	43	70-130	20	10/25/2021 2002
1,2,4-Trichlorobenzene	0.00	0.049	0.033	N,+	1	68	42	70-130	20	10/25/2021 2002

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: WJ22078-008MD
Batch: 20033
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
1,1,1-Trichloroethane	0.00	0.049	0.044		1	91	4.3	70-130	20	10/25/2021 2002
1,1,2-Trichloroethane	0.00	0.049	0.055	+	1	114	46	70-130	20	10/25/2021 2002
Trichloroethene	0.00	0.049	0.048		1	98	20	70-130	20	10/25/2021 2002
Trichlorofluoromethane	0.00	0.049	0.052		1	106	16	70-130	20	10/25/2021 2002
Vinyl chloride	0.00	0.049	0.051		1	105	7.3	70-130	20	10/25/2021 2002
m+p - Xylenes	0.00	0.049	0.044	+	1	90	23	70-130	20	10/25/2021 2002
o - Xylenes	0.00	0.049	0.046	+	1	95	28	70-130	20	10/25/2021 2002

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		114	47-138
1,2-Dichloroethane-d4		99	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ21141-001
Batch: 21141
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	10	U	1	10	4.0	ug/L	11/03/2021 1124
Benzene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Bromochloromethane	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Bromodichloromethane	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Bromoform	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Bromomethane (Methyl bromide)	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
2-Butanone (MEK)	10	U	1	10	2.0	ug/L	11/03/2021 1124
Carbon disulfide	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Carbon tetrachloride	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Chlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Chloroethane	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Chloroform	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Chloromethane (Methyl chloride)	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Cyclohexane	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
1,2-Dibromo-3-chloropropane (DBCP)	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Dibromochloromethane	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
1,2-Dibromoethane (EDB)	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
1,2-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
1,3-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
1,4-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Dichlorodifluoromethane	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
1,1-Dichloroethane	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
1,2-Dichloroethane	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
1,1-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
cis-1,2-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
trans-1,2-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
1,2-Dichloropropane	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
cis-1,3-Dichloropropene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
trans-1,3-Dichloropropene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Ethylbenzene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
2-Hexanone	10	U	1	10	2.0	ug/L	11/03/2021 1124
Isopropylbenzene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Methyl acetate	1.0	U	1	1.0	0.40	ug/L	11/03/2021 1124
Methyl tertiary butyl ether (MTBE)	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
4-Methyl-2-pentanone	10	U	1	10	2.0	ug/L	11/03/2021 1124
Methylcyclohexane	5.0	U	1	5.0	0.40	ug/L	11/03/2021 1124
Methylene chloride	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Styrene	0.50	U	1	0.50	0.41	ug/L	11/03/2021 1124
1,1,2,2-Tetrachloroethane	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Tetrachloroethene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Toluene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1	1.0	0.42	ug/L	11/03/2021 1124
1,2,3-Trichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
1,2,4-Trichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ21141-001
Batch: 21141
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,1,1-Trichloroethane	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
1,1,2-Trichloroethane	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Trichloroethene	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Trichlorofluoromethane	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
Vinyl chloride	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
m+p - Xylenes	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124
o - Xylenes	0.50	U	1	0.50	0.40	ug/L	11/03/2021 1124

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		96	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ21141-002
Batch: 21141
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	92		1	92	60-140	11/03/2021 1020
Benzene	50	48		1	97	70-130	11/03/2021 1020
Bromochloromethane	50	50		1	100	70-130	11/03/2021 1020
Bromodichloromethane	50	50		1	100	70-130	11/03/2021 1020
Bromoform	50	45		1	89	70-130	11/03/2021 1020
Bromomethane (Methyl bromide)	50	53		1	106	70-130	11/03/2021 1020
2-Butanone (MEK)	100	100		1	105	70-130	11/03/2021 1020
Carbon disulfide	50	44		1	88	70-130	11/03/2021 1020
Carbon tetrachloride	50	46		1	93	70-130	11/03/2021 1020
Chlorobenzene	50	47		1	95	70-130	11/03/2021 1020
Chloroethane	50	50		1	100	70-130	11/03/2021 1020
Chloroform	50	49		1	97	70-130	11/03/2021 1020
Chloromethane (Methyl chloride)	50	45		1	90	60-140	11/03/2021 1020
Cyclohexane	50	36		1	72	70-130	11/03/2021 1020
1,2-Dibromo-3-chloropropane (DBCP)	50	50		1	100	70-130	11/03/2021 1020
Dibromochloromethane	50	45		1	90	70-130	11/03/2021 1020
1,2-Dibromoethane (EDB)	50	49		1	98	70-130	11/03/2021 1020
1,2-Dichlorobenzene	50	47		1	94	70-130	11/03/2021 1020
1,3-Dichlorobenzene	50	47		1	94	70-130	11/03/2021 1020
1,4-Dichlorobenzene	50	46		1	91	70-130	11/03/2021 1020
Dichlorodifluoromethane	50	50		1	100	60-140	11/03/2021 1020
1,1-Dichloroethane	50	47		1	95	70-130	11/03/2021 1020
1,2-Dichloroethane	50	48		1	96	70-130	11/03/2021 1020
1,1-Dichloroethene	50	44		1	87	70-130	11/03/2021 1020
cis-1,2-Dichloroethene	50	49		1	98	70-130	11/03/2021 1020
trans-1,2-Dichloroethene	50	48		1	95	70-130	11/03/2021 1020
1,2-Dichloropropane	50	48		1	96	70-130	11/03/2021 1020
cis-1,3-Dichloropropene	50	51		1	102	70-130	11/03/2021 1020
trans-1,3-Dichloropropene	50	51		1	101	70-130	11/03/2021 1020
Ethylbenzene	50	48		1	95	70-130	11/03/2021 1020
2-Hexanone	100	98		1	98	70-130	11/03/2021 1020
Isopropylbenzene	50	49		1	98	70-130	11/03/2021 1020
Methyl acetate	50	46		1	91	70-130	11/03/2021 1020
Methyl tertiary butyl ether (MTBE)	50	30	N	1	60	70-130	11/03/2021 1020
4-Methyl-2-pentanone	100	97		1	97	70-130	11/03/2021 1020
Methylcyclohexane	50	40		1	80	70-130	11/03/2021 1020
Methylene chloride	50	47		1	93	70-130	11/03/2021 1020
Styrene	50	52		1	103	70-130	11/03/2021 1020
1,1,2,2-Tetrachloroethane	50	48		1	95	70-130	11/03/2021 1020
Tetrachloroethene	50	47		1	95	70-130	11/03/2021 1020
Toluene	50	48		1	95	70-130	11/03/2021 1020
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	39		1	79	70-130	11/03/2021 1020
1,2,3-Trichlorobenzene	50	47		1	94	70-130	11/03/2021 1020
1,2,4-Trichlorobenzene	50	48		1	95	70-130	11/03/2021 1020

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ21141-002
Batch: 21141
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,1,1-Trichloroethane	50	44		1	88	70-130	11/03/2021 1020
1,1,2-Trichloroethane	50	47		1	95	70-130	11/03/2021 1020
Trichloroethene	50	48		1	97	70-130	11/03/2021 1020
Trichlorofluoromethane	50	41		1	83	70-130	11/03/2021 1020
Vinyl chloride	50	52		1	104	70-130	11/03/2021 1020
m+p - Xylenes	50	49		1	97	70-130	11/03/2021 1020
o - Xylenes	50	48		1	97	70-130	11/03/2021 1020

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		93	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: WQ21183-001
Batch: 21183
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/03/2021 1915

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acenaphthene	0.0027	U	1	0.0027	0.00083	mg/kg	12/10/2021 1710
Acenaphthylene	0.0027	U	1	0.0027	0.00095	mg/kg	12/10/2021 1710
Acetophenone	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Anthracene	0.00084	J	1	0.0027	0.00051	mg/kg	12/10/2021 1710
Atrazine	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Benzaldehyde	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Benzo(a)anthracene	0.0027	U	1	0.0027	0.00059	mg/kg	12/10/2021 1710
Benzo(a)pyrene	0.00097	J	1	0.0027	0.00066	mg/kg	12/10/2021 1710
Benzo(b)fluoranthene	0.0027	U	1	0.0027	0.00050	mg/kg	12/10/2021 1710
Benzo(g,h,i)perylene	0.00079	J	1	0.0027	0.00065	mg/kg	12/10/2021 1710
Benzo(k)fluoranthene	0.0027	U	1	0.0027	0.00048	mg/kg	12/10/2021 1710
1,1'-Biphenyl	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
4-Bromophenyl phenyl ether	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Butyl benzyl phthalate	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Caprolactam	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Carbazole	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
bis (2-Chloro-1-methylethyl) ether	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
4-Chloro-3-methyl phenol	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
4-Chloroaniline	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
bis(2-Chloroethoxy)methane	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
bis(2-Chloroethyl)ether	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
2-Chloronaphthalene	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
2-Chlorophenol	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
4-Chlorophenyl phenyl ether	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Chrysene	0.0027	U	1	0.0027	0.00045	mg/kg	12/10/2021 1710
Dibenzo(a,h)anthracene	0.00079	J	1	0.0027	0.00051	mg/kg	12/10/2021 1710
Dibenzofuran	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
3,3'-Dichlorobenzidine	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
2,4-Dichlorophenol	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Diethylphthalate	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Dimethyl phthalate	0.013	U	1	0.013	0.0074	mg/kg	12/10/2021 1710
2,4-Dimethylphenol	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Di-n-butyl phthalate	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
4,6-Dinitro-2-methylphenol	0.067	U	1	0.067	0.025	mg/kg	12/10/2021 1710
2,4-Dinitrophenol	0.067	U	1	0.067	0.025	mg/kg	12/10/2021 1710
2,4-Dinitrotoluene	0.027	U	1	0.027	0.010	mg/kg	12/10/2021 1710
2,6-Dinitrotoluene	0.027	U	1	0.027	0.010	mg/kg	12/10/2021 1710
Di-n-octylphthalate	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
1,4-Dioxane	0.033	U	1	0.033	0.010	mg/kg	12/10/2021 1710
bis(2-Ethylhexyl)phthalate	0.067	U	1	0.067	0.025	mg/kg	12/10/2021 1710
Fluoranthene	0.0027	U	1	0.0027	0.00042	mg/kg	12/10/2021 1710
Fluorene	0.0027	U	1	0.0027	0.00057	mg/kg	12/10/2021 1710
Hexachlorobenzene	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Hexachlorobutadiene	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: WQ21183-001
Batch: 21183
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/03/2021 1915

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Hexachlorocyclopentadiene	0.067	U	1	0.067	0.025	mg/kg	12/10/2021 1710
Hexachloroethane	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Indeno(1,2,3-c,d)pyrene	0.0027	U	1	0.0027	0.0010	mg/kg	12/10/2021 1710
Isophorone	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
2-Methylnaphthalene	0.0027	U	1	0.0027	0.00099	mg/kg	12/10/2021 1710
2-Methylphenol	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
3+4-Methylphenol	0.027	U	1	0.027	0.010	mg/kg	12/10/2021 1710
Naphthalene	0.0027	U	1	0.0027	0.00097	mg/kg	12/10/2021 1710
2-Nitroaniline	0.027	U	1	0.027	0.010	mg/kg	12/10/2021 1710
3-Nitroaniline	0.027	U	1	0.027	0.010	mg/kg	12/10/2021 1710
4-Nitroaniline	0.027	U	1	0.027	0.010	mg/kg	12/10/2021 1710
Nitrobenzene	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
2-Nitrophenol	0.027	U	1	0.027	0.010	mg/kg	12/10/2021 1710
4-Nitrophenol	0.067	U	1	0.067	0.025	mg/kg	12/10/2021 1710
N-Nitrosodi-n-propylamine	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
N-Nitrosodiphenylamine (Diphenylamine)	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Pentachlorophenol	0.067	U	1	0.067	0.025	mg/kg	12/10/2021 1710
Phenanthrene	0.0011	J	1	0.0027	0.00072	mg/kg	12/10/2021 1710
Phenol	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
Pyrene	0.00096	J	1	0.0027	0.00050	mg/kg	12/10/2021 1710
1,2,4,5-Tetrachlorobenzene	0.033	U	1	0.033	0.010	mg/kg	12/10/2021 1710
2,3,4,6-Tetrachlorophenol	0.067	U	1	0.067	0.010	mg/kg	12/10/2021 1710
2,4,5-Trichlorophenol	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710
2,4,6-Trichlorophenol	0.013	U	1	0.013	0.0050	mg/kg	12/10/2021 1710

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		40	33-102
2-Fluorophenol		64	35-115
Nitrobenzene-d5		50	22-109
Phenol-d5		67	33-122
Terphenyl-d14		65	41-120
2,4,6-Tribromophenol		44	30-117

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: WQ21183-002
Batch: 21183
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/03/2021 1915

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acenaphthene	0.13	0.11		1	80	12-111	12/03/2021 1154
Acenaphthylene	0.13	0.10		1	79	44-122	12/03/2021 1154
Acetophenone	0.13	0.11		1	84	48-111	12/03/2021 1154
Anthracene	0.13	0.11		1	83	16-122	12/03/2021 1154
Atrazine	0.13	0.086		1	65	48-116	12/03/2021 1154
Benzaldehyde	0.13	0.098		1	74	10-110	12/03/2021 1154
Benzo(a)anthracene	0.13	0.10		1	79	40-121	12/03/2021 1154
Benzo(a)pyrene	0.13	0.11		1	82	36-114	12/03/2021 1154
Benzo(b)fluoranthene	0.13	0.11		1	83	38-123	12/03/2021 1154
Benzo(g,h,i)perylene	0.13	0.12		1	87	43-120	12/03/2021 1154
Benzo(k)fluoranthene	0.13	0.12		1	88	40-126	12/03/2021 1154
1,1'-Biphenyl	0.13	0.098		1	74	49-110	12/03/2021 1154
4-Bromophenyl phenyl ether	0.13	0.13		1	98	46-118	12/03/2021 1154
Butyl benzyl phthalate	0.13	0.059	N	1	45	46-128	12/03/2021 1154
Caprolactam	0.13	0.13		1	95	43-121	12/03/2021 1154
Carbazole	0.13	0.096		1	72	47-128	12/03/2021 1154
bis (2-Chloro-1-methylethyl) ether	0.13	0.12		1	91	31-102	12/03/2021 1154
4-Chloro-3-methyl phenol	0.13	0.094		1	71	49-118	12/03/2021 1154
4-Chloroaniline	0.13	0.036		1	27	17-106	12/03/2021 1154
bis(2-Chloroethoxy)methane	0.13	0.11		1	84	39-108	12/03/2021 1154
bis(2-Chloroethyl)ether	0.13	0.11		1	81	32-105	12/03/2021 1154
2-Chloronaphthalene	0.13	0.097		1	73	31-127	12/03/2021 1154
2-Chlorophenol	0.13	0.10		1	78	37-106	12/03/2021 1154
4-Chlorophenyl phenyl ether	0.13	0.099		1	74	47-116	12/03/2021 1154
Chrysene	0.13	0.11		1	84	41-124	12/03/2021 1154
Dibenzo(a,h)anthracene	0.13	0.12		1	87	38-125	12/03/2021 1154
Dibenzofuran	0.13	0.098		1	74	45-112	12/03/2021 1154
3,3'-Dichlorobenzidine	0.13	0.046		1	35	10-119	12/03/2021 1154
2,4-Dichlorophenol	0.13	0.10		1	76	41-113	12/03/2021 1154
Diethylphthalate	0.13	0.088		1	66	49-123	12/03/2021 1154
Dimethyl phthalate	0.13	0.090		1	68	48-120	12/03/2021 1154
2,4-Dimethylphenol	0.13	0.097		1	73	33-123	12/03/2021 1154
Di-n-butyl phthalate	0.13	0.093		1	70	51-129	12/03/2021 1154
4,6-Dinitro-2-methylphenol	0.13	0.12		1	88	40-130	12/03/2021 1154
2,4-Dinitrophenol	0.27	0.17		1	64	32-115	12/03/2021 1154
2,4-Dinitrotoluene	0.13	0.096		1	72	48-124	12/03/2021 1154
2,6-Dinitrotoluene	0.13	0.10		1	76	47-125	12/03/2021 1154
Di-n-octylphthalate	0.13	0.087		1	66	49-142	12/03/2021 1154
bis(2-Ethylhexyl)phthalate	0.13	0.098		1	74	45-128	12/03/2021 1154
Fluoranthene	0.13	0.098		1	73	26-133	12/03/2021 1154
Fluorene	0.13	0.098		1	74	19-108	12/03/2021 1154
Hexachlorobenzene	0.13	0.14		1	105	44-122	12/03/2021 1154
Hexachlorobutadiene	0.13	0.096		1	72	33-103	12/03/2021 1154
Hexachlorocyclopentadiene	0.67	0.58		1	87	18-121	12/03/2021 1154

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: WQ21183-002
Batch: 21183
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/03/2021 1915

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Hexachloroethane	0.13	0.086		1	65	30-96	12/03/2021 1154
Indeno(1,2,3-c,d)pyrene	0.13	0.12		1	87	42-123	12/03/2021 1154
Isophorone	0.13	0.11		1	83	41-113	12/03/2021 1154
2-Methylnaphthalene	0.13	0.11		1	82	10-107	12/03/2021 1154
2-Methylphenol	0.13	0.096		1	73	32-107	12/03/2021 1154
3+4-Methylphenol	0.13	0.094		1	71	39-108	12/03/2021 1154
Naphthalene	0.13	0.10		1	76	10-112	12/03/2021 1154
2-Nitroaniline	0.13	0.12		1	87	45-123	12/03/2021 1154
3-Nitroaniline	0.13	0.039		1	29	24-127	12/03/2021 1154
4-Nitroaniline	0.13	0.073		1	55	48-127	12/03/2021 1154
Nitrobenzene	0.13	0.11		1	79	33-114	12/03/2021 1154
2-Nitrophenol	0.13	0.10		1	77	35-108	12/03/2021 1154
4-Nitrophenol	0.27	0.20		1	75	18-154	12/03/2021 1154
N-Nitrosodi-n-propylamine	0.13	0.13		1	98	32-115	12/03/2021 1154
N-Nitrosodiphenylamine (Diphenylamine)	0.13	0.12		1	88	53-150	12/03/2021 1154
Pentachlorophenol	0.27	0.13		1	50	27-138	12/03/2021 1154
Phenanthrene	0.13	0.11		1	81	16-123	12/03/2021 1154
Phenol	0.13	0.10		1	76	36-108	12/03/2021 1154
Pyrene	0.13	0.064		1	48	34-121	12/03/2021 1154
1,2,4,5-Tetrachlorobenzene	0.13	0.11		1	82	53-125	12/03/2021 1154
2,3,4,6-Tetrachlorophenol	0.13	0.085		1	64	30-130	12/03/2021 1154
2,4,5-Trichlorophenol	0.13	0.083		1	63	46-122	12/03/2021 1154
2,4,6-Trichlorophenol	0.13	0.088		1	66	38-115	12/03/2021 1154

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		77	33-102
2-Fluorophenol		66	35-115
Nitrobenzene-d5		85	22-109
Phenol-d5		79	33-122
Terphenyl-d14		65	41-120
2,4,6-Tribromophenol		104	30-117

LOQ = Limit of Quantitation
DL = Detection Limit
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J = Estimated result < LOQ and ≥ DL
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N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: WJ22078-003MS
Batch: 21183
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/03/2021 1915

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acenaphthene	0.041	0.16	0.20		10	97	12-111	12/03/2021 1628
Acenaphthylene	0.039	0.16	0.18		10	89	44-122	12/03/2021 1628
Acetophenone	0.00	0.16	0.14		10	89	30-130	12/03/2021 1628
Anthracene	0.11	0.16	0.26		10	95	16-122	12/03/2021 1628
Atrazine	0.00	0.16	0.14		10	85	30-130	12/03/2021 1628
Benzaldehyde	0.00	0.16	0.16		10	100	10-110	12/03/2021 1628
Benzo(a)anthracene	0.45	0.16	0.63		10	111	40-121	12/03/2021 1628
Benzo(a)pyrene	0.57	0.16	0.78	N	10	134	36-114	12/03/2021 1628
Benzo(b)fluoranthene	0.73	0.16	0.91		10	111	38-123	12/03/2021 1628
Benzo(g,h,i)perylene	0.32	0.16	0.46		10	83	43-120	12/03/2021 1628
Benzo(k)fluoranthene	0.23	0.16	0.45	N	10	135	40-126	12/03/2021 1628
1,1'-Biphenyl	0.00	0.16	0.21		10	102	30-130	12/03/2021 1628
4-Bromophenyl phenyl ether	0.00	0.16	0.16		10	99	30-130	12/03/2021 1628
Butyl benzyl phthalate	0.00	0.16	0.11		10	68	30-130	12/03/2021 1628
Caprolactam	0.00	0.16	0.29	N	10	180	30-130	12/03/2021 1628
Carbazole	0.00	0.16	0.19		10	95	30-130	12/03/2021 1628
bis (2-Chloro-1-methylethyl) ether	0.00	0.16	0.13		10	78	30-130	12/03/2021 1628
4-Chloro-3-methyl phenol	0.00	0.16		N,U	10	0.00	30-130	12/03/2021 1628
4-Chloroaniline	0.00	0.16	0.12		10	73	17-106	12/03/2021 1628
bis(2-Chloroethoxy)methane	0.00	0.16	0.14		10	86	30-130	12/03/2021 1628
bis(2-Chloroethyl)ether	0.00	0.16	0.12		10	74	30-130	12/03/2021 1628
2-Chloronaphthalene	0.00	0.16	0.11		10	70	30-130	12/03/2021 1628
2-Chlorophenol	0.00	0.16	0.063		10	39	30-130	12/03/2021 1628
4-Chlorophenyl phenyl ether	0.00	0.16	0.14		10	85	30-130	12/03/2021 1628
Chrysene	0.50	0.16	0.72	N	10	131	41-124	12/03/2021 1628
Dibenzo(a,h)anthracene	0.00	0.16	0.22	N	10	136	38-125	12/03/2021 1628
Dibenzofuran	0.00	0.16	0.20		10	124	30-130	12/03/2021 1628
3,3'-Dichlorobenzidine	0.00	0.16		N,U	10	0.00	10-119	12/03/2021 1628
2,4-Dichlorophenol	0.00	0.16	0.12		10	71	30-130	12/03/2021 1628
Diethylphthalate	0.00	0.16	0.13		10	83	30-130	12/03/2021 1628
Dimethyl phthalate	0.00	0.16	0.13		10	78	30-130	12/03/2021 1628
2,4-Dimethylphenol	0.00	0.16		N,U	10	0.00	30-130	12/03/2021 1628
Di-n-butyl phthalate	0.00	0.16	0.14		10	85	30-130	12/03/2021 1628
4,6-Dinitro-2-methylphenol	0.00	0.16	0.28	N	10	173	30-130	12/03/2021 1628
2,4-Dinitrophenol	0.00	0.33	1.2	N	10	372	30-130	12/03/2021 1628
2,4-Dinitrotoluene	0.00	0.16	0.34	N	10	208	30-130	12/03/2021 1628
2,6-Dinitrotoluene	0.00	0.16	0.30	N	10	185	30-130	12/03/2021 1628
Di-n-octylphthalate	0.00	0.16	0.098		10	60	30-130	12/03/2021 1628
bis(2-Ethylhexyl)phthalate	0.00	0.16	0.11		10	70	30-130	12/03/2021 1628
Fluoranthene	0.90	0.16	1.1	N	10	151	26-133	12/03/2021 1628
Fluorene	0.025	0.16	0.16		10	85	19-108	12/03/2021 1628
Hexachlorobenzene	0.00	0.16	0.17		10	102	30-130	12/03/2021 1628
Hexachlorobutadiene	0.00	0.16	0.11		10	68	30-130	12/03/2021 1628
Hexachlorocyclopentadiene	0.00	0.81		N,U	10	0.00	30-130	12/03/2021 1628

LOQ = Limit of Quantitation
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J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: WJ22078-003MS
Batch: 21183
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/03/2021 1915

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Hexachloroethane	0.00	0.16	0.15		10	91	30-130	12/03/2021 1628
Indeno(1,2,3-c,d)pyrene	0.29	0.16	0.44		10	92	42-123	12/03/2021 1628
Isophorone	0.00	0.16	0.13		10	78	30-130	12/03/2021 1628
2-Methylnaphthalene	0.49	0.16	1.1	N	10	361	10-107	12/03/2021 1628
2-Methylphenol	0.00	0.16	0.070		10	43	30-130	12/03/2021 1628
3+4-Methylphenol	0.00	0.16	0.16		10	99	30-130	12/03/2021 1628
Naphthalene	0.12	0.16	0.32	N	10	126	10-112	12/03/2021 1628
2-Nitroaniline	0.00	0.16	0.18		10	108	30-130	12/03/2021 1628
3-Nitroaniline	0.00	0.16	0.11		10	66	30-130	12/03/2021 1628
4-Nitroaniline	0.00	0.16	0.13		10	82	30-130	12/03/2021 1628
Nitrobenzene	0.00	0.16	0.13		10	77	30-130	12/03/2021 1628
2-Nitrophenol	0.00	0.16	0.16		10	96	30-130	12/03/2021 1628
4-Nitrophenol	0.00	0.33	0.096		10	30	30-130	12/03/2021 1628
N-Nitrosodi-n-propylamine	0.00	0.16	0.13		10	81	30-130	12/03/2021 1628
N-Nitrosodiphenylamine (Diphenylamine)	0.00	0.16	0.37	N	10	227	30-130	12/03/2021 1628
Pentachlorophenol	0.00	0.33		N,U	10	0.00	30-130	12/03/2021 1628
Phenanthrene	0.42	0.16	0.69	N	10	166	16-123	12/03/2021 1628
Phenol	0.00	0.16	0.14		10	85	30-130	12/03/2021 1628
Pyrene	0.65	0.16	0.84		10	115	34-121	12/03/2021 1628
1,2,4,5-Tetrachlorobenzene	0.00	0.16	0.14		10	83	53-125	12/03/2021 1628
2,3,4,6-Tetrachlorophenol	0.00	0.41		N,U	10	0.00	30-130	12/03/2021 1628
2,4,5-Trichlorophenol	0.00	0.16		N,U	10	0.00	30-130	12/03/2021 1628
2,4,6-Trichlorophenol	0.00	0.16	0.084		10	52	30-130	12/03/2021 1628

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		81	33-102
2-Fluorophenol	N	33	35-115
Nitrobenzene-d5		89	22-109
Phenol-d5		57	33-122
Terphenyl-d14		84	41-120
2,4,6-Tribromophenol		47	30-117

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: WJ22078-003MD
Batch: 21183
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/03/2021 1915

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	0.041	0.16	0.16		10	76	19	12-111	30	12/03/2021 1653
Acenaphthylene	0.039	0.16	0.16		10	77	12	44-122	30	12/03/2021 1653
Acetophenone	0.00	0.16	0.13		10	78	14	30-130	40	12/03/2021 1653
Anthracene	0.11	0.16	0.25		10	88	5.3	16-122	30	12/03/2021 1653
Atrazine	0.00	0.16	0.13		10	79	8.0	30-130	40	12/03/2021 1653
Benzaldehyde	0.00	0.16	0.15		10	93	8.2	10-110	40	12/03/2021 1653
Benzo(a)anthracene	0.45	0.16	0.60		10	93	5.0	40-121	30	12/03/2021 1653
Benzo(a)pyrene	0.57	0.16	0.76	N	10	121	3.1	36-114	30	12/03/2021 1653
Benzo(b)fluoranthene	0.73	0.16	0.92		10	116	0.70	38-123	30	12/03/2021 1653
Benzo(g,h,i)perylene	0.32	0.16	0.42		10	62	7.9	43-120	30	12/03/2021 1653
Benzo(k)fluoranthene	0.23	0.16	0.41		10	112	9.1	40-126	30	12/03/2021 1653
1,1'-Biphenyl	0.00	0.16	0.18		10	88	12	30-130	40	12/03/2021 1653
4-Bromophenyl phenyl ether	0.00	0.16	0.15		10	91	9.6	30-130	40	12/03/2021 1653
Butyl benzyl phthalate	0.00	0.16	0.099		10	62	10	30-130	40	12/03/2021 1653
Caprolactam	0.00	0.16	0.24	N	10	149	20	30-130	40	12/03/2021 1653
Carbazole	0.00	0.16	0.17		10	88	6.3	30-130	40	12/03/2021 1653
bis (2-Chloro-1-methylethyl) ether	0.00	0.16	0.12		10	73	6.7	30-130	40	12/03/2021 1653
4-Chloro-3-methyl phenol	0.00	0.16		N,U	10	0.00	0.00	30-130	40	12/03/2021 1653
4-Chloroaniline	0.00	0.16	0.092		10	57	25	17-106	40	12/03/2021 1653
bis(2-Chloroethoxy)methane	0.00	0.16	0.13		10	79	10	30-130	40	12/03/2021 1653
bis(2-Chloroethyl)ether	0.00	0.16	0.10		10	63	16	30-130	40	12/03/2021 1653
2-Chloronaphthalene	0.00	0.16	0.11		10	67	5.0	30-130	40	12/03/2021 1653
2-Chlorophenol	0.00	0.16	0.055		10	34	13	30-130	40	12/03/2021 1653
4-Chlorophenyl phenyl ether	0.00	0.16	0.13		10	78	9.6	30-130	40	12/03/2021 1653
Chrysene	0.50	0.16	0.65		10	93	9.2	41-124	30	12/03/2021 1653
Dibenzo(a,h)anthracene	0.00	0.16	0.20	N	10	126	8.7	38-125	30	12/03/2021 1653
Dibenzofuran	0.00	0.16	0.18		10	109	14	30-130	40	12/03/2021 1653
3,3'-Dichlorobenzidine	0.00	0.16		N,U	10	0.00	0.00	10-119	40	12/03/2021 1653
2,4-Dichlorophenol	0.00	0.16	0.081		10	50	35	30-130	40	12/03/2021 1653
Diethylphthalate	0.00	0.16	0.12		10	76	8.8	30-130	40	12/03/2021 1653
Dimethyl phthalate	0.00	0.16	0.11		10	70	12	30-130	40	12/03/2021 1653
2,4-Dimethylphenol	0.00	0.16		N,U	10	0.00	0.00	30-130	40	12/03/2021 1653
Di-n-butyl phthalate	0.00	0.16	0.14		10	88	2.7	30-130	40	12/03/2021 1653
4,6-Dinitro-2-methylphenol	0.00	0.16		N,+,U	10	0.00	200	30-130	40	12/03/2021 1653
2,4-Dinitrophenol	0.00	0.32		N,+,U	10	0.00	200	30-130	40	12/03/2021 1653
2,4-Dinitrotoluene	0.00	0.16	0.32	N	10	197	6.0	30-130	40	12/03/2021 1653
2,6-Dinitrotoluene	0.00	0.16	0.28	N	10	173	8.1	30-130	40	12/03/2021 1653
Di-n-octylphthalate	0.00	0.16	0.087		10	54	12	30-130	40	12/03/2021 1653
bis(2-Ethylhexyl)phthalate	0.00	0.16	0.11		10	66	6.8	30-130	40	12/03/2021 1653
Fluoranthene	0.90	0.16	1.1		10	133	2.8	26-133	30	12/03/2021 1653
Fluorene	0.025	0.16	0.15		10	77	8.6	19-108	30	12/03/2021 1653
Hexachlorobenzene	0.00	0.16	0.15		10	94	9.8	30-130	40	12/03/2021 1653
Hexachlorobutadiene	0.00	0.16	0.10		10	63	8.7	30-130	40	12/03/2021 1653
Hexachlorocyclopentadiene	0.00	0.81		N,U	10	0.00	0.00	30-130	40	12/03/2021 1653

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U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: WJ22078-003MD
Batch: 21183
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/03/2021 1915

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Hexachloroethane	0.00	0.16	0.11		10	70	26	30-130	40	12/03/2021 1653
Indeno(1,2,3-c,d)pyrene	0.29	0.16	0.40		10	64	11	42-123	30	12/03/2021 1653
Isophorone	0.00	0.16	0.12		10	76	3.8	30-130	40	12/03/2021 1653
2-Methylnaphthalene	0.49	0.16	0.89	N	10	251	19	10-107	30	12/03/2021 1653
2-Methylphenol	0.00	0.16	0.072		10	45	2.1	30-130	40	12/03/2021 1653
3+4-Methylphenol	0.00	0.16	0.14		10	88	13	30-130	40	12/03/2021 1653
Naphthalene	0.12	0.16	0.28		10	100	14	10-112	30	12/03/2021 1653
2-Nitroaniline	0.00	0.16	0.14		10	90	19	30-130	40	12/03/2021 1653
3-Nitroaniline	0.00	0.16		N,+,U	10	0.00	200	30-130	40	12/03/2021 1653
4-Nitroaniline	0.00	0.16		N,+,U	10	0.00	200	30-130	40	12/03/2021 1653
Nitrobenzene	0.00	0.16	0.11		10	70	11	30-130	40	12/03/2021 1653
2-Nitrophenol	0.00	0.16	0.14		10	87	10	30-130	40	12/03/2021 1653
4-Nitrophenol	0.00	0.32		N,+,U	10	0.00	200	30-130	40	12/03/2021 1653
N-Nitrosodi-n-propylamine	0.00	0.16	0.12		10	75	9.2	30-130	40	12/03/2021 1653
N-Nitrosodiphenylamine (Diphenylamine)	0.00	0.16	0.26	N	10	163	34	30-130	40	12/03/2021 1653
Pentachlorophenol	0.00	0.32		N,U	10	0.00	0.00	30-130	40	12/03/2021 1653
Phenanthrene	0.42	0.16	0.64	N	10	140	6.8	16-123	30	12/03/2021 1653
Phenol	0.00	0.16	0.13		10	78	9.8	30-130	40	12/03/2021 1653
Pyrene	0.65	0.16	0.81		10	102	2.9	34-121	30	12/03/2021 1653
1,2,4,5-Tetrachlorobenzene	0.00	0.16	0.12		10	73	14	53-125	40	12/03/2021 1653
2,3,4,6-Tetrachlorophenol	0.00	0.40	0.060	N,+	10	15	200	30-130	40	12/03/2021 1653
2,4,5-Trichlorophenol	0.00	0.16		N,U	10	0.00	0.00	30-130	40	12/03/2021 1653
2,4,6-Trichlorophenol	0.00	0.16	0.056	+	10	35	41	30-130	40	12/03/2021 1653

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		67	33-102
2-Fluorophenol	N	26	35-115
Nitrobenzene-d5		92	22-109
Phenol-d5		51	33-122
Terphenyl-d14		77	41-120
2,4,6-Tribromophenol		60	30-117

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: WJ22078-008MS
Batch: 21183
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/03/2021 1915

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acenaphthene	0.0010	0.16	0.13		1	77	12-111	12/03/2021 1334
Acenaphthylene	0.00	0.16	0.13		1	78	44-122	12/03/2021 1334
Acetophenone	0.00	0.16	0.13		1	83	30-130	12/03/2021 1334
Anthracene	0.0014	0.16	0.13		1	78	16-122	12/03/2021 1334
Atrazine	0.00	0.16	0.11		1	70	30-130	12/03/2021 1334
Benzaldehyde	0.00	0.16		N,U	1	0.00	10-110	12/03/2021 1334
Benzo(a)anthracene	0.0069	0.16	0.13		1	77	40-121	12/03/2021 1334
Benzo(a)pyrene	0.011	0.16	0.15		1	86	36-114	12/03/2021 1334
Benzo(b)fluoranthene	0.014	0.16	0.16		1	92	38-123	12/03/2021 1334
Benzo(g,h,i)perylene	0.012	0.16	0.14		1	81	43-120	12/03/2021 1334
Benzo(k)fluoranthene	0.0062	0.16	0.15		1	88	40-126	12/03/2021 1334
1,1'-Biphenyl	0.00	0.16	0.12		1	76	30-130	12/03/2021 1334
4-Bromophenyl phenyl ether	0.00	0.16	0.16		1	101	30-130	12/03/2021 1334
Butyl benzyl phthalate	0.00	0.16	0.075		1	47	30-130	12/03/2021 1334
Caprolactam	0.00	0.16	0.14		1	87	30-130	12/03/2021 1334
Carbazole	0.00	0.16	0.11		1	71	30-130	12/03/2021 1334
bis (2-Chloro-1-methylethyl) ether	0.00	0.16	0.15		1	91	30-130	12/03/2021 1334
4-Chloro-3-methyl phenol	0.00	0.16	0.13		1	80	30-130	12/03/2021 1334
4-Chloroaniline	0.00	0.16	0.047		1	29	17-106	12/03/2021 1334
bis(2-Chloroethoxy)methane	0.00	0.16	0.14		1	84	30-130	12/03/2021 1334
bis(2-Chloroethyl)ether	0.00	0.16	0.14		1	84	30-130	12/03/2021 1334
2-Chloronaphthalene	0.00	0.16	0.12		1	74	30-130	12/03/2021 1334
2-Chlorophenol	0.00	0.16	0.12		1	72	30-130	12/03/2021 1334
4-Chlorophenyl phenyl ether	0.00	0.16	0.12		1	72	30-130	12/03/2021 1334
Chrysene	0.0073	0.16	0.15		1	87	41-124	12/03/2021 1334
Dibenzo(a,h)anthracene	0.00	0.16	0.14		1	85	38-125	12/03/2021 1334
Dibenzofuran	0.00	0.16	0.12		1	74	30-130	12/03/2021 1334
3,3'-Dichlorobenzidine	0.00	0.16	0.0075	N	1	4.7	10-119	12/03/2021 1334
2,4-Dichlorophenol	0.00	0.16	0.11		1	67	30-130	12/03/2021 1334
Diethylphthalate	0.00	0.16	0.097		1	60	30-130	12/03/2021 1334
Dimethyl phthalate	0.00	0.16	0.10		1	64	30-130	12/03/2021 1334
2,4-Dimethylphenol	0.00	0.16	0.11		1	66	30-130	12/03/2021 1334
Di-n-butyl phthalate	0.023	0.16	0.11		1	55	30-130	12/03/2021 1334
4,6-Dinitro-2-methylphenol	0.00	0.16	0.14		1	88	30-130	12/03/2021 1334
2,4-Dinitrophenol	0.00	0.32	0.25		1	78	30-130	12/03/2021 1334
2,4-Dinitrotoluene	0.00	0.16	0.11		1	66	30-130	12/03/2021 1334
2,6-Dinitrotoluene	0.00	0.16	0.12		1	73	30-130	12/03/2021 1334
Di-n-octylphthalate	0.00	0.16	0.11		1	67	30-130	12/03/2021 1334
bis(2-Ethylhexyl)phthalate	0.00	0.16	0.11		1	71	30-130	12/03/2021 1334
Fluoranthene	0.010	0.16	0.13		1	75	26-133	12/03/2021 1334
Fluorene	0.00078	0.16	0.11		1	71	19-108	12/03/2021 1334
Hexachlorobenzene	0.00	0.16	0.18		1	110	30-130	12/03/2021 1334
Hexachlorobutadiene	0.00	0.16	0.12		1	76	30-130	12/03/2021 1334
Hexachlorocyclopentadiene	0.00	0.81	0.64		1	80	30-130	12/03/2021 1334

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: WJ22078-008MS
Batch: 21183
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/03/2021 1915

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Hexachloroethane	0.00	0.16	0.11		1	68	30-130	12/03/2021 1334
Indeno(1,2,3-c,d)pyrene	0.0089	0.16	0.14		1	81	42-123	12/03/2021 1334
Isophorone	0.00	0.16	0.14		1	84	30-130	12/03/2021 1334
2-Methylnaphthalene	0.0035	0.16	0.14		1	87	10-107	12/03/2021 1334
2-Methylphenol	0.00	0.16	0.10		1	63	30-130	12/03/2021 1334
3+4-Methylphenol	0.00	0.16	0.14		1	86	30-130	12/03/2021 1334
Naphthalene	0.0034	0.16	0.13		1	76	10-112	12/03/2021 1334
2-Nitroaniline	0.00	0.16	0.14		1	85	30-130	12/03/2021 1334
3-Nitroaniline	0.00	0.16	0.046	N	1	28	30-130	12/03/2021 1334
4-Nitroaniline	0.00	0.16	0.078		1	48	30-130	12/03/2021 1334
Nitrobenzene	0.00	0.16	0.13		1	82	30-130	12/03/2021 1334
2-Nitrophenol	0.00	0.16	0.13		1	79	30-130	12/03/2021 1334
4-Nitrophenol	0.00	0.32	0.22		1	70	30-130	12/03/2021 1334
N-Nitrosodi-n-propylamine	0.00	0.16	0.16		1	97	30-130	12/03/2021 1334
N-Nitrosodiphenylamine (Diphenylamine)	0.00	0.16	0.14		1	88	30-130	12/03/2021 1334
Pentachlorophenol	0.00	0.32	0.25		1	78	30-130	12/03/2021 1334
Phenanthrene	0.0091	0.16	0.13		1	78	16-123	12/03/2021 1334
Phenol	0.00	0.16	0.10		1	63	30-130	12/03/2021 1334
Pyrene	0.0086	0.16	0.085		1	47	34-121	12/03/2021 1334
1,2,4,5-Tetrachlorobenzene	0.00	0.16	0.14		1	85	53-125	12/03/2021 1334
2,3,4,6-Tetrachlorophenol	0.00	0.40	0.11	N	1	27	30-130	12/03/2021 1334
2,4,5-Trichlorophenol	0.00	0.16	0.12		1	78	30-130	12/03/2021 1334
2,4,6-Trichlorophenol	0.00	0.16	0.086		1	53	30-130	12/03/2021 1334

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		77	33-102
2-Fluorophenol		46	35-115
Nitrobenzene-d5		84	22-109
Phenol-d5		64	33-122
Terphenyl-d14		70	41-120
2,4,6-Tribromophenol		99	30-117

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: WJ22078-008MD
Batch: 21183
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/03/2021 1915

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	0.0010	0.16	0.11		1	71	9.0	12-111	30	12/03/2021 1359
Acenaphthylene	0.00	0.16	0.11		1	70	11	44-122	30	12/03/2021 1359
Acetophenone	0.00	0.16	0.12		1	74	11	30-130	40	12/03/2021 1359
Anthracene	0.0014	0.16	0.12		1	71	9.5	16-122	30	12/03/2021 1359
Atrazine	0.00	0.16	0.11		1	66	6.4	30-130	40	12/03/2021 1359
Benzaldehyde	0.00	0.16	0.12	+	1	74	200	10-110	40	12/03/2021 1359
Benzo(a)anthracene	0.0069	0.16	0.11		1	62	22	40-121	30	12/03/2021 1359
Benzo(a)pyrene	0.011	0.16	0.12		1	70	19	36-114	30	12/03/2021 1359
Benzo(b)fluoranthene	0.014	0.16	0.14		1	76	18	38-123	30	12/03/2021 1359
Benzo(g,h,i)perylene	0.012	0.16	0.14		1	77	4.5	43-120	30	12/03/2021 1359
Benzo(k)fluoranthene	0.0062	0.16	0.13		1	75	15	40-126	30	12/03/2021 1359
1,1'-Biphenyl	0.00	0.16	0.11		1	66	14	30-130	40	12/03/2021 1359
4-Bromophenyl phenyl ether	0.00	0.16	0.14		1	85	18	30-130	40	12/03/2021 1359
Butyl benzyl phthalate	0.00	0.16	0.069		1	43	8.0	30-130	40	12/03/2021 1359
Caprolactam	0.00	0.16	0.16		1	98	12	30-130	40	12/03/2021 1359
Carbazole	0.00	0.16	0.12		1	74	3.5	30-130	40	12/03/2021 1359
bis (2-Chloro-1-methylethyl) ether	0.00	0.16	0.13		1	83	9.6	30-130	40	12/03/2021 1359
4-Chloro-3-methyl phenol	0.00	0.16	0.13		1	78	2.1	30-130	40	12/03/2021 1359
4-Chloroaniline	0.00	0.16	0.042		1	26	10	17-106	40	12/03/2021 1359
bis(2-Chloroethoxy)methane	0.00	0.16	0.12		1	75	12	30-130	40	12/03/2021 1359
bis(2-Chloroethyl)ether	0.00	0.16	0.12		1	76	10	30-130	40	12/03/2021 1359
2-Chloronaphthalene	0.00	0.16	0.10		1	64	15	30-130	40	12/03/2021 1359
2-Chlorophenol	0.00	0.16	0.11		1	65	9.4	30-130	40	12/03/2021 1359
4-Chlorophenyl phenyl ether	0.00	0.16	0.11		1	70	2.9	30-130	40	12/03/2021 1359
Chrysene	0.0073	0.16	0.12		1	71	20	41-124	30	12/03/2021 1359
Dibenzo(a,h)anthracene	0.00	0.16	0.13		1	82	3.4	38-125	30	12/03/2021 1359
Dibenzofuran	0.00	0.16	0.11		1	68	8.7	30-130	40	12/03/2021 1359
3,3'-Dichlorobenzidine	0.00	0.16	0.0058	N	1	3.6	26	10-119	40	12/03/2021 1359
2,4-Dichlorophenol	0.00	0.16	0.10		1	65	2.9	30-130	40	12/03/2021 1359
Diethylphthalate	0.00	0.16	0.11		1	66	8.7	30-130	40	12/03/2021 1359
Dimethyl phthalate	0.00	0.16	0.10		1	63	1.3	30-130	40	12/03/2021 1359
2,4-Dimethylphenol	0.00	0.16	0.092		1	57	15	30-130	40	12/03/2021 1359
Di-n-butyl phthalate	0.023	0.16	0.12		1	63	11	30-130	40	12/03/2021 1359
4,6-Dinitro-2-methylphenol	0.00	0.16	0.11		1	69	24	30-130	40	12/03/2021 1359
2,4-Dinitrophenol	0.00	0.32	0.24		1	76	3.4	30-130	40	12/03/2021 1359
2,4-Dinitrotoluene	0.00	0.16	0.11		1	69	4.2	30-130	40	12/03/2021 1359
2,6-Dinitrotoluene	0.00	0.16	0.11		1	70	3.5	30-130	40	12/03/2021 1359
Di-n-octylphthalate	0.00	0.16	0.097		1	60	11	30-130	40	12/03/2021 1359
bis(2-Ethylhexyl)phthalate	0.00	0.16	0.098		1	61	16	30-130	40	12/03/2021 1359
Fluoranthene	0.010	0.16	0.12		1	70	6.7	26-133	30	12/03/2021 1359
Fluorene	0.00078	0.16	0.11		1	68	3.9	19-108	30	12/03/2021 1359
Hexachlorobenzene	0.00	0.16	0.14		1	89	21	30-130	40	12/03/2021 1359
Hexachlorobutadiene	0.00	0.16	0.11		1	68	11	30-130	40	12/03/2021 1359
Hexachlorocyclopentadiene	0.00	0.80	0.53		1	66	20	30-130	40	12/03/2021 1359

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: WJ22078-008MD
Batch: 21183
Analytical Method: 8270E

Matrix: Solid
Prep Method: 3546
Prep Date: 11/03/2021 1915

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Hexachloroethane	0.00	0.16	0.097		1	61	12	30-130	40	12/03/2021 1359
Indeno(1,2,3-c,d)pyrene	0.0089	0.16	0.13		1	75	6.7	42-123	30	12/03/2021 1359
Isophorone	0.00	0.16	0.12		1	76	10	30-130	40	12/03/2021 1359
2-Methylnaphthalene	0.0035	0.16	0.12		1	73	18	10-107	30	12/03/2021 1359
2-Methylphenol	0.00	0.16	0.092		1	57	11	30-130	40	12/03/2021 1359
3+4-Methylphenol	0.00	0.16	0.13		1	82	5.9	30-130	40	12/03/2021 1359
Naphthalene	0.0034	0.16	0.11		1	66	14	10-112	30	12/03/2021 1359
2-Nitroaniline	0.00	0.16	0.13		1	80	6.0	30-130	40	12/03/2021 1359
3-Nitroaniline	0.00	0.16	0.038	N	1	23	19	30-130	40	12/03/2021 1359
4-Nitroaniline	0.00	0.16	0.085		1	53	8.9	30-130	40	12/03/2021 1359
Nitrobenzene	0.00	0.16	0.12		1	74	10	30-130	40	12/03/2021 1359
2-Nitrophenol	0.00	0.16	0.11		1	71	10	30-130	40	12/03/2021 1359
4-Nitrophenol	0.00	0.32	0.29		1	90	25	30-130	40	12/03/2021 1359
N-Nitrosodi-n-propylamine	0.00	0.16	0.14		1	85	13	30-130	40	12/03/2021 1359
N-Nitrosodiphenylamine (Diphenylamine)	0.00	0.16	0.12		1	74	17	30-130	40	12/03/2021 1359
Pentachlorophenol	0.00	0.32	0.25		1	77	0.83	30-130	40	12/03/2021 1359
Phenanthrene	0.0091	0.16	0.12		1	71	9.4	16-123	30	12/03/2021 1359
Phenol	0.00	0.16	0.094		1	59	7.2	30-130	40	12/03/2021 1359
Pyrene	0.0086	0.16	0.11		1	64	28	34-121	30	12/03/2021 1359
1,2,4,5-Tetrachlorobenzene	0.00	0.16	0.12		1	73	16	53-125	40	12/03/2021 1359
2,3,4,6-Tetrachlorophenol	0.00	0.40	0.13		1	33	17	30-130	40	12/03/2021 1359
2,4,5-Trichlorophenol	0.00	0.16	0.13		1	83	6.1	30-130	40	12/03/2021 1359
2,4,6-Trichlorophenol	0.00	0.16	0.074		1	46	15	30-130	40	12/03/2021 1359

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		65	33-102
2-Fluorophenol		50	35-115
Nitrobenzene-d5		75	22-109
Phenol-d5		55	33-122
Terphenyl-d14		75	41-120
2,4,6-Tribromophenol		76	30-117

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

PCBs by GC - MB

Sample ID: WQ20067-001
Batch: 20067
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 10/25/2021 1657

Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aroclor 1016	0.010	U	1	0.010	0.0027	mg/kg	10/27/2021 1104
Aroclor 1221	0.010	U	1	0.010	0.0023	mg/kg	10/27/2021 1104
Aroclor 1232	0.010	U	1	0.010	0.0021	mg/kg	10/27/2021 1104
Aroclor 1242	0.010	U	1	0.010	0.0016	mg/kg	10/27/2021 1104
Aroclor 1248	0.010	U	1	0.010	0.0041	mg/kg	10/27/2021 1104
Aroclor 1254	0.010	U	1	0.010	0.0025	mg/kg	10/27/2021 1104
Aroclor 1260	0.010	U	1	0.010	0.0025	mg/kg	10/27/2021 1104
Aroclor 1262	0.010	U	1	0.010	0.0021	mg/kg	10/27/2021 1104
Aroclor 1268	0.010	U	1	0.010	0.0014	mg/kg	10/27/2021 1104

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		86	41-132
Tetrachloro-m-xylene		66	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

PCBs by GC - LCS

Sample ID: WQ20067-002
Batch: 20067
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 10/25/2021 1657

Cleanup: 3660B/3665A

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aroclor 1016	0.10	0.075		1	75	70-130	10/28/2021 1056
Aroclor 1260	0.10	0.077		1	77	70-130	10/28/2021 1056

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		78	41-132
Tetrachloro-m-xylene		50	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

PCBs by GC - MS

Sample ID: WJ22078-003MS
Batch: 20067
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 10/25/2021 1657

Cleanup: 3660B/3665A

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aroclor 1016	0.00	0.12	0.072	N	1	59	70-130	10/27/2021 1344
Aroclor 1260	0.00	0.12	0.099		1	82	70-130	10/27/2021 1344

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		73	41-132
Tetrachloro-m-xylene		50	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

PCBs by GC - MSD

Sample ID: WJ22078-003MD
Batch: 20067
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 10/25/2021 1657

Cleanup: 3660B/3665A

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Aroclor 1016	0.00	0.12	0.076	N	1	62	6.1	70-130	20	10/27/2021 1358
Aroclor 1260	0.00	0.12	0.11		1	89	9.7	70-130	20	10/27/2021 1358

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		77	41-132
Tetrachloro-m-xylene		52	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

PCBs by GC - MB

Sample ID: WQ20384-001
Batch: 20384
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 10/27/2021 1715

Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aroclor 1016	0.010	U	1	0.010	0.0027	mg/kg	10/29/2021 1358
Aroclor 1221	0.010	U	1	0.010	0.0023	mg/kg	10/29/2021 1358
Aroclor 1232	0.010	U	1	0.010	0.0021	mg/kg	10/29/2021 1358
Aroclor 1242	0.010	U	1	0.010	0.0016	mg/kg	10/29/2021 1358
Aroclor 1248	0.010	U	1	0.010	0.0041	mg/kg	10/29/2021 1358
Aroclor 1254	0.010	U	1	0.010	0.0025	mg/kg	10/29/2021 1358
Aroclor 1260	0.010	U	1	0.010	0.0025	mg/kg	10/29/2021 1358
Aroclor 1262	0.010	U	1	0.010	0.0021	mg/kg	10/29/2021 1358
Aroclor 1268	0.010	U	1	0.010	0.0014	mg/kg	10/29/2021 1358

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		79	41-132
Tetrachloro-m-xylene		83	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

PCBs by GC - LCS

Sample ID: WQ20384-002
Batch: 20384
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 10/27/2021 1715

Cleanup: 3660B/3665A

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aroclor 1016	0.10	0.086		1	86	70-130	10/29/2021 1411
Aroclor 1260	0.10	0.10		1	103	70-130	10/29/2021 1411

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		81	41-132
Tetrachloro-m-xylene		82	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

PCBs by GC - MS

Sample ID: WJ22078-008MS
Batch: 20384
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 10/27/2021 1715

Cleanup: 3660B/3665A

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aroclor 1016	0.00	0.12	0.10		1	83	70-130	10/29/2021 1746
Aroclor 1260	0.00	0.12	0.11		1	92	70-130	10/29/2021 1746

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		76	41-132
Tetrachloro-m-xylene		85	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

PCBs by GC - MSD

Sample ID: WJ22078-008MD
Batch: 20384
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 10/27/2021 1715

Cleanup: 3660B/3665A

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Aroclor 1016	0.00	0.12	0.053	N,+	1	45	60	70-130	20	10/29/2021 1759
Aroclor 1260	0.00	0.12	0.055	N,+	1	46	66	70-130	20	10/29/2021 1759

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl	N	39	41-132
Tetrachloro-m-xylene		41	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MB

Sample ID: WQ20129-001
Batch: 20129
Analytical Method: 6020B

Matrix: Solid
Prep Method: 3050B
Prep Date: 10/27/2021 0915

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aluminum	10	U	1	10	2.5	mg/kg	11/08/2021 1350
Antimony	0.50	U	1	0.50	0.20	mg/kg	11/08/2021 1350
Arsenic	0.50	U	1	0.50	0.20	mg/kg	11/08/2021 1350
Barium	1.3	U	1	1.3	0.31	mg/kg	11/08/2021 1350
Beryllium	0.10	U	1	0.10	0.034	mg/kg	11/08/2021 1350
Cadmium	0.13	U	1	0.13	0.025	mg/kg	11/08/2021 1350
Calcium	100	U	1	100	30	mg/kg	11/08/2021 1350
Chromium	1.3	U	1	1.3	0.55	mg/kg	11/08/2021 1350
Cobalt	1.3	U	1	1.3	0.30	mg/kg	11/08/2021 1350
Copper	1.3	U	1	1.3	0.33	mg/kg	11/08/2021 1350
Iron	13	U	1	13	2.5	mg/kg	11/08/2021 1350
Lead	0.25	U	1	0.25	0.068	mg/kg	11/08/2021 1350
Magnesium	100	U	1	100	25	mg/kg	11/08/2021 1350
Manganese	1.3	U	1	1.3	0.36	mg/kg	11/08/2021 1350
Nickel	1.3	U	1	1.3	0.30	mg/kg	11/08/2021 1350
Potassium	100	U	1	100	25	mg/kg	11/08/2021 1350
Selenium	1.3	U	1	1.3	0.47	mg/kg	11/08/2021 1350
Silver	0.25	U	1	0.25	0.060	mg/kg	11/08/2021 1350
Sodium	100	U	1	100	37	mg/kg	11/08/2021 1350
Thallium	0.13	U	1	0.13	0.030	mg/kg	11/08/2021 1350
Vanadium	1.3	U	1	1.3	0.25	mg/kg	11/08/2021 1350
Zinc	2.5	U	1	2.5	0.50	mg/kg	11/08/2021 1350

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - LCS

Sample ID: WQ20129-002
Batch: 20129
Analytical Method: 6020B

Matrix: Solid
Prep Method: 3050B
Prep Date: 10/27/2021 0915

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aluminum	50	49		1	98	80-120	11/08/2021 1352
Antimony	50	49		1	98	80-120	11/08/2021 1352
Arsenic	50	51		1	101	80-120	11/08/2021 1352
Barium	50	48		1	97	80-120	11/08/2021 1352
Beryllium	50	52		1	104	80-120	11/08/2021 1352
Cadmium	50	52		1	104	80-120	11/08/2021 1352
Calcium	500	460		1	92	80-120	11/08/2021 1352
Chromium	50	52		1	104	80-120	11/08/2021 1352
Cobalt	50	51		1	102	80-120	11/08/2021 1352
Copper	50	55		1	110	80-120	11/08/2021 1352
Iron	500	500		1	100	80-120	11/08/2021 1352
Lead	50	49		1	98	80-120	11/08/2021 1352
Magnesium	500	500		1	100	80-120	11/08/2021 1352
Manganese	50	51		1	103	80-120	11/08/2021 1352
Nickel	50	53		1	106	80-120	11/08/2021 1352
Potassium	500	500		1	99	80-120	11/08/2021 1352
Selenium	50	49		1	98	80-120	11/08/2021 1352
Silver	50	50		2	100	80-120	11/08/2021 1354
Sodium	500	540		1	107	80-120	11/08/2021 1352
Thallium	50	52		1	103	80-120	11/08/2021 1352
Vanadium	50	52		1	103	80-120	11/08/2021 1352
Zinc	50	51		1	103	80-120	11/08/2021 1352

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MS

Sample ID: WJ22078-003MS
Batch: 20129
Analytical Method: 6020B

Matrix: Solid
Prep Method: 3050B
Prep Date: 10/27/2021 0915

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aluminum	13000	59	21000	N	1	13100	75-125	11/08/2021 1421
Antimony	0.43	59	40	N	1	67	75-125	11/08/2021 1421
Arsenic	2.9	59	63		1	102	75-125	11/08/2021 1421
Barium	160	59	290	N	1	213	75-125	11/08/2021 1421
Beryllium	1.1	59	64		5	107	75-125	11/08/2021 1538
Cadmium	0.38	59	65		1	110	75-125	11/08/2021 1421
Calcium	58000	590	69000	N	5	1930	75-125	11/08/2021 1538
Chromium	30	59	89		1	101	75-125	11/08/2021 1421
Cobalt	5.4	59	66		1	103	75-125	11/08/2021 1421
Copper	29	59	100		1	122	75-125	11/08/2021 1421
Iron	20000	590	26000	N	5	947	75-125	11/08/2021 1538
Lead	22	59	89		1	114	75-125	11/08/2021 1421
Magnesium	16000	590	18000	N	1	240	75-125	11/08/2021 1421
Manganese	2200	59	2700	N	25	900	75-125	11/08/2021 1614
Nickel	11	59	80		1	117	75-125	11/08/2021 1421
Potassium	1400	590	3200	N	1	309	75-125	11/08/2021 1421
Selenium	0.0	59	64		1	108	75-125	11/08/2021 1421
Silver	0.11	59	60		1	103	75-125	11/08/2021 1421
Sodium	290	590	970		1	116	75-125	11/08/2021 1421
Thallium	0.077	59	66		1	112	75-125	11/08/2021 1421
Vanadium	22	59	82		1	101	75-125	11/08/2021 1421
Zinc	70	59	140		1	116	75-125	11/08/2021 1421

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MSD

Sample ID: WJ22078-003MD
Batch: 20129
Analytical Method: 6020B

Matrix: Solid
Prep Method: 3050B
Prep Date: 10/27/2021 0915

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Aluminum	13000	53	19000	N	1	11900	7.3	75-125	20	11/08/2021 1423
Antimony	0.43	53	36	N	1	68	9.0	75-125	20	11/08/2021 1423
Arsenic	2.9	53	57		1	103	10	75-125	20	11/08/2021 1423
Barium	160	53	280	N	1	230	1.6	75-125	20	11/08/2021 1423
Beryllium	1.1	53	59		5	109	9.0	75-125	20	11/08/2021 1540
Cadmium	0.38	53	61		1	116	6.5	75-125	20	11/08/2021 1423
Calcium	58000	530	67000	N	5	1670	3.8	75-125	20	11/08/2021 1540
Chromium	30	53	83		1	101	7.6	75-125	20	11/08/2021 1423
Cobalt	5.4	53	62		1	108	5.7	75-125	20	11/08/2021 1423
Copper	29	53	110	N	1	155	9.2	75-125	20	11/08/2021 1423
Iron	20000	530	30000	N	5	1820	14	75-125	20	11/08/2021 1540
Lead	22	53	90	N	1	130	1.0	75-125	20	11/08/2021 1423
Magnesium	16000	530	13000	N,+	1	-594	29	75-125	20	11/08/2021 1423
Manganese	2200	53	2300	N	25	340	14	75-125	20	11/08/2021 1620
Nickel	11	53	74		1	119	8.9	75-125	20	11/08/2021 1423
Potassium	1400	530	3200	N	1	353	1.1	75-125	20	11/08/2021 1423
Selenium	0.0	53	56		1	107	12	75-125	20	11/08/2021 1423
Silver	0.11	53	54		1	103	10	75-125	20	11/08/2021 1423
Sodium	290	530	950	N	1	126	2.4	75-125	20	11/08/2021 1423
Thallium	0.077	53	60		1	113	9.9	75-125	20	11/08/2021 1423
Vanadium	22	53	82		1	113	0.28	75-125	20	11/08/2021 1423
Zinc	70	53	150	N	1	146	6.0	75-125	20	11/08/2021 1423

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MB

Sample ID: WQ20772-001
Batch: 20772
Analytical Method: 6020B

Matrix: Solid
Prep Method: 3050B
Prep Date: 11/02/2021 0412

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aluminum	10	U	1	10	2.5	mg/kg	11/05/2021 0954
Antimony	0.50	U	1	0.50	0.20	mg/kg	11/05/2021 0954
Arsenic	0.50	U	1	0.50	0.20	mg/kg	11/05/2021 0954
Barium	1.3	U	1	1.3	0.31	mg/kg	11/05/2021 0954
Beryllium	0.10	U	1	0.10	0.034	mg/kg	11/05/2021 0954
Cadmium	0.13	U	1	0.13	0.025	mg/kg	11/05/2021 0954
Calcium	100	U	1	100	30	mg/kg	11/05/2021 0954
Chromium	1.3	U	1	1.3	0.55	mg/kg	11/05/2021 0954
Cobalt	1.3	U	1	1.3	0.30	mg/kg	11/05/2021 0954
Copper	0.40	J	1	1.3	0.33	mg/kg	11/05/2021 0954
Iron	13	U	1	13	2.5	mg/kg	11/05/2021 0954
Lead	0.25	U	1	0.25	0.068	mg/kg	11/05/2021 0954
Magnesium	100	U	1	100	25	mg/kg	11/05/2021 0954
Manganese	1.3	U	1	1.3	0.36	mg/kg	11/05/2021 0954
Nickel	1.3	U	1	1.3	0.30	mg/kg	11/05/2021 0954
Potassium	100	U	1	100	25	mg/kg	11/05/2021 0954
Selenium	1.3	U	1	1.3	0.47	mg/kg	11/05/2021 0954
Silver	0.25	U	1	0.25	0.060	mg/kg	11/05/2021 0954
Sodium	100	U	1	100	37	mg/kg	11/05/2021 0954
Thallium	0.13	U	1	0.13	0.030	mg/kg	11/05/2021 0954
Vanadium	1.3	U	1	1.3	0.25	mg/kg	11/05/2021 0954
Zinc	2.5	U	1	2.5	0.50	mg/kg	11/05/2021 0954

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - LCS

Sample ID: WQ20772-002
Batch: 20772
Analytical Method: 6020B

Matrix: Solid
Prep Method: 3050B
Prep Date: 11/02/2021 0412

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aluminum	50	52		1	104	80-120	11/05/2021 0956
Antimony	50	51		1	102	80-120	11/05/2021 0956
Arsenic	50	53		1	106	80-120	11/05/2021 0956
Barium	50	51		1	101	80-120	11/05/2021 0956
Beryllium	50	52		1	105	80-120	11/05/2021 0956
Cadmium	50	53		1	107	80-120	11/05/2021 0956
Calcium	500	460		1	92	80-120	11/05/2021 0956
Chromium	50	53		1	107	80-120	11/05/2021 0956
Cobalt	50	52		1	105	80-120	11/05/2021 0956
Copper	50	57		1	113	80-120	11/05/2021 0956
Iron	500	510		1	103	80-120	11/05/2021 0956
Lead	50	49		1	98	80-120	11/05/2021 0956
Magnesium	500	530		1	105	80-120	11/05/2021 0956
Manganese	50	54		1	107	80-120	11/05/2021 0956
Nickel	50	55		1	110	80-120	11/05/2021 0956
Potassium	500	510		1	102	80-120	11/05/2021 0956
Selenium	50	46		1	92	80-120	11/05/2021 0956
Silver	50	49		2	99	80-120	11/05/2021 1030
Sodium	500	520		1	105	80-120	11/05/2021 0956
Thallium	50	54		1	107	80-120	11/05/2021 0956
Vanadium	50	53		1	107	80-120	11/05/2021 0956
Zinc	50	53		1	107	80-120	11/05/2021 0956

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MS

Sample ID: WJ22078-008MS
Batch: 20772
Analytical Method: 6020B

Matrix: Solid
Prep Method: 3050B
Prep Date: 11/02/2021 0412

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aluminum	12000	58	28000	N	1	26800	75-125	11/05/2021 1155
Antimony	0.37	58	36	N	1	62	75-125	11/05/2021 1155
Arsenic	7.5	58	68		1	104	75-125	11/05/2021 1155
Barium	130	58	330	N	1	341	75-125	11/05/2021 1155
Beryllium	1.0	58	60		1	101	75-125	11/05/2021 1155
Cadmium	0.34	58	66		1	114	75-125	11/05/2021 1155
Calcium	2900	580	6600	N	1	640	75-125	11/05/2021 1155
Chromium	16	58	76		1	103	75-125	11/05/2021 1155
Cobalt	12	58	74		1	107	75-125	11/05/2021 1155
Copper	21	58	90		1	120	75-125	11/05/2021 1155
Iron	26000	580	32000	N	10	926	75-125	11/05/2021 1627
Lead	24	58	92		1	118	75-125	11/05/2021 1155
Magnesium	2000	580	3700	N	1	292	75-125	11/05/2021 1155
Manganese	580	58	760	N	10	301	75-125	11/05/2021 1627
Nickel	22	58	92		1	120	75-125	11/05/2021 1155
Potassium	1600	580	6700	N	1	876	75-125	11/05/2021 1155
Selenium	0.0	58	55		1	95	75-125	11/05/2021 1155
Silver	0.0	58	62		1	107	75-125	11/05/2021 1155
Sodium	58	580	710		1	113	75-125	11/05/2021 1155
Thallium	0.23	58	66		1	113	75-125	11/05/2021 1155
Vanadium	25	58	100	N	1	130	75-125	11/05/2021 1155
Zinc	78	58	170	N	1	150	75-125	11/05/2021 1155

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MSD

Sample ID: WJ22078-008MD
Batch: 20772
Analytical Method: 6020B

Matrix: Solid
Prep Method: 3050B
Prep Date: 11/02/2021 0412

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Aluminum	12000	61	28000	N	1	26100	1.2	75-125	20	11/05/2021 1157
Antimony	0.37	61	38	N	1	62	4.9	75-125	20	11/05/2021 1157
Arsenic	7.5	61	68		1	100	0.54	75-125	20	11/05/2021 1157
Barium	130	61	340	N	1	339	2.3	75-125	20	11/05/2021 1157
Beryllium	1.0	61	76	+	1	124	24	75-125	20	11/05/2021 1157
Cadmium	0.34	61	66		1	108	0.85	75-125	20	11/05/2021 1157
Calcium	2900	610	5700	N	1	459	15	75-125	20	11/05/2021 1157
Chromium	16	61	77		1	100	1.4	75-125	20	11/05/2021 1157
Cobalt	12	61	75		1	104	1.5	75-125	20	11/05/2021 1157
Copper	21	61	84		1	104	7.0	75-125	20	11/05/2021 1157
Iron	26000	610	31000	N	10	808	1.5	75-125	20	11/05/2021 1629
Lead	24	61	120	N,+	1	151	22	75-125	20	11/05/2021 1157
Magnesium	2000	610	3500	N	1	243	6.2	75-125	20	11/05/2021 1157
Manganese	580	61	860	N	10	455	13	75-125	20	11/05/2021 1629
Nickel	22	61	94		1	118	2.3	75-125	20	11/05/2021 1157
Potassium	1600	610	6800	N	1	845	0.75	75-125	20	11/05/2021 1157
Selenium	0.0	61	74	+	1	122	29	75-125	20	11/05/2021 1157
Silver	0.0	61	62		1	103	0.29	75-125	20	11/05/2021 1157
Sodium	58	610	680		1	103	4.6	75-125	20	11/05/2021 1157
Thallium	0.23	61	66		1	109	0.67	75-125	20	11/05/2021 1157
Vanadium	25	61	100		1	124	0.41	75-125	20	11/05/2021 1157
Zinc	78	61	160	N	1	135	3.3	75-125	20	11/05/2021 1157

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MB

Sample ID: WQ20140-001
Batch: 20140
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 11/01/2021 1211

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Mercury	0.083	U	1	0.083	0.020	mg/kg	11/02/2021 1315

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - LCS

Sample ID: WQ20140-002
Batch: 20140
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 11/01/2021 1211

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Mercury	0.83	0.85		1	102	80-120	11/02/2021 1317

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MB

Sample ID: WQ20141-001
Batch: 20141
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 11/01/2021 1211

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Mercury	0.083	U	1	0.083	0.020	mg/kg	11/02/2021 1429

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - LCS

Sample ID: WQ20141-002
Batch: 20141
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 11/01/2021 1211

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Mercury	0.83	0.81		1	97	80-120	11/02/2021 1431

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MS

Sample ID: WJ22078-003MS
Batch: 20141
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 11/01/2021 1211

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Mercury	0.0	1.0	1.2		1	120	80-120	11/02/2021 1437

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MSD

Sample ID: WJ22078-003MD
Batch: 20141
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 11/01/2021 1211

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Mercury	0.0	0.92	1.1	N	1	122	9.1	80-120	20	11/02/2021 1439

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MS

Sample ID: WJ22078-008MS
Batch: 20141
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 11/01/2021 1211

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Mercury	0.025	0.88	0.94		1	103	80-120	11/02/2021 1501

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MSD

Sample ID: WJ22078-008MD
Batch: 20141
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 11/01/2021 1211

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Mercury	0.025	0.92	0.99		1	104	5.3	80-120	20	11/02/2021 1504

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Chain of Custody
and
Miscellaneous Documents

HB 10/21/21

CHAIN OF CUSTODY RECORD

Laboratory: Pace Analytical Services, LLC (formerly Shealy) 106 Vantage Point Drive, West Columbia, SC 29172 Project Manager: Cathy Bolon (803) 227-3160

Client: Lynchburg EDA
Attn: Malcolm Upshaw
Address: 900 Church St, Lynchburg, VA
Phone: (434) 455-4480
Fax:

Consultant: Draper Aden Associates
Attn: Jason C. Hosler
Address: 1008 South Main Street, Blacksburg, Virginia 24060
Phone: (540) 552-0444
Fax: (540) 552-0431

Former Internet/Lynchburg Foundry Site
1651 Concord Turpk
Lynchburg, VA
Phase II ESA
B12188B-10HM

Project Specific QC (Y or Blank) (I) QC: Sample Collected for Project Complete? YES
Carrier:
Tracking number:

Box 1: Matrix
SW Surface Water
GW Groundwater
L Leachate
S Soil
T Tire Blank
E Equipment Blank
P Product
O Other

Box 3: Preservative
A HCl
B HNO_3
C H_2SO_4
D $Na_2S_2O_3$
E NaOH
F Solv
G Other (Specify)
H None

Box 2: Container
V VOA
CO Clear Glass

Box 4: Sample Type
G Grab
C Composite

Invoice
Dayle Consultants YES
Bill: Consultant OTHER
Preserved and shipped on ice: YES

Box 4 - Sample Type					G	G	G	G	G	G	G					
Box 3 - Preservative																
Required pH of Sample																
Box 2 - Preservative					G	H	H	H	H	H	H					
Box 5 - Sample Container Type					1-40ml V	2-40ml V	1-40ml									
Sample ID	Date: 2021	Time	Box 1: Matrix	Number of Bottles	TAL VOAs 5035/8260D w/ methanol	TAL VOAs 5035/8260D w/ DI Water (as needed)	VOA Vial for screening	Dry Weight (Moisture)	TAL 8270E/8545 - Semi volatiles including PAHs (See attached analyte list)	TAL 6020B/7471 B/9056B - Total Metals (TAL) w/ Hg AND CYANIDE 9012B	TAL PCB 8082A/3546 (Microwave)					
BMW1-1			S	6	X	X	X	X	X	X	X					
BMW1-2			S	6	X	X	X	X	X	X	X					
B1-1	10/21	15:15	S	5	X	X	X	X	X	X						
B1-2	10/21	15:20	S	5	X	X	X	X	X	X						
BMW2-1			S	5	X	X	X	X	X	X						
BMW2-2			S	5	X	X	X	X	X	X						
B2-1	10/21	13:15	S	5	X	X	X	X	X	X	X					
B2-2	10/21	13:20	S	5	X	X	X	X	X	X	X					
B3-1	10/21	12:25	S	5	X	X	X	X	X	X						
B3-2	10/21	12:30	S	5	X	X	X	X	X	X						
B4-1	10/21	11:20	S	5	X	X	X	X	X	X	X					
B4-2	10/21	11:25	S	5	X	X	X	X	X	X	X					
~~B5-2~~ B5-1	10/21	10:25	S	5	X	X	X	X	X	X						
~~B6-1~~ B5-2	10/21	10:30	S	5	X	X	X	X	X	X						
B6-2 HB	10/21/21		S	5	X	X	X	X	X	X						

WJ22078
CSD

GENERAL NOTES:
1. Full deliverable with RF EDD (electronic report only)
2. Report DL/AL and estimated results.
3. VELAP accreditation required.
4. See attached target analyte lists.
5. Report results in mg/kg.
6. Report on a dry weight basis.
7. 5035/8260B (1) VOA with methanol and (3) VOAs with DI Water.
8. Report to lowest limits where possible for Inorganics (Method 6010C)
9. EPA Brownfield Project

#9 oz upgraded to 16 oz for MS/MSD

SOIL SAMPLING INTERVAL =
B1-1: 1'-2'
B1-2: 11'-12'
B2-1: 0'-1' MS/MSD collected
B2-2: 4'-5'
B3-1: 0'-1'
B3-2: 4'-5'
B4-1: 0'-2'
B4-2: 9'-10' * MS/MSD Collected
B5-1: 0'-2'
B5-2: 11'-12'

Check Special Instructions:
Received by lab in Good Condition ✓ Yes ___ No Custody Seal Used ✓ Yes ___ No Temperature on arrival 3.0°C 2.7°C Preservation ✓ Yes ___ No
Describe problems, if any:

Sample Name (Print): Hollyn Bybee	Date: 10/21/21	#1 Relinquished by (Signature): Hollyn Bybee	Date: 10/21/21	#2 Relinquished by (Signature):	Date:	Sample Storage Time Requested:
Sampler Signature: Hollyn Bybee	Time: 0900	Company Name: DAA	Time: 17:30	Company Name:	Time:	
Sample Name (Print): Ethan Truman	Date: 10/21/21	#1 Received by (Signature):	Date:	#2 Received by (Signature): Kayanneccarns	Date: 10-22-21	10 DYS CWSA WITHIN HOLDING
Sampler Signature:	Time: 0900	Company Name:	Time:	Company Name:	Time: 950	

T = 3.0°C
2.7°C

HB 10/21/21

CHAIN OF CUSTODY RECORD

Laboratory: Pace Analytical Services, LLC (formerly Shealy) 106 Vantage Point Drive, West Columbia, SC 29172 Project Manager Cathy Rowe (803) 227-3160

Client: Lynchburg EDA
Attn: Marjorie Upshur
Address: 900 Church St, Lynchburg, VA
Phone: (434) 455-4182
Fax:

Consultant: Draper Aden Associates
Attn: Jared S. Fowler
Address: 2108 South Main Street, Blacksburg, Virginia 24060
Phone: (540) 552-0444
Fax: (540) 552-3154

Former Intermet/Lynchburg Foundry Site
1651 Concord Tnpk
Lynchburg, VA
Phase II ESA
B121888-10HM

Sample Collected for Project Complete? YES
Carrier:
Tracking Number:

Box 1: Matrix
SW Surface Water
GW Groundwater
L Leachate
S Soil
T Trip Blank
E Equipment Blank
P Product
O Other

Box 2: Preservative
A HCl
B HNO_3
C H_2SO_4
D $Na_2S_2O_3$
E NaOH
F ZnAc
G Other (Specify)
H None

Container: V VOA, G/J Other Glass

Box 4: Sample Type
N Aqueous
C Composite

Invoice
Copy to Consultant: HRK
DB Consultant: CJ/MEH
Preserved and shipped on ice: YES

Box 3 - Filtered/Unfiltered
Number of Vial Sample
Box 5 - Preservative
Box 6 - Sample Container Type

GENERAL NOTES:
1. Fill deliverable with RF ECD (electronic report only).
2. Report BLOQ and estimated results.
3. VELAP Accreditation required.
4. See attached target analyte lists.
5. Report results in mg/kg.
6. Report on a dry weight basis.
AP60005035 (1) VOA with methanol and (3) VOAs with DI Water.
8. Report to lowest limits where possible for inorganics (Method 6020B).
9. EPA Brownfield Project

WJ22078
DSD

Sample ID	Date: 2021	Time	Box 1: Matrix	Number of Bottles	TAL VOAs 5035B/8260D w/ methanol	TAL VOAs 5035B/8260D w/ DI Water (as needed)	VOA Vial for screening	Dry Weight (Moisture)	TAL 8270E/8015 Semi volatiles including PAHs (See attached analyte list)	TAL 6020B/7471B/9056B – Total Metals (TAL) Wet Chem and CYANIDE 9012B	TAL PFAS 537.1/537 (Informational)	VOCs	GEOL SAMPLING INTERVAL =
B7-1			S	5	X	X	X	X	X	X	X		
B7-2			S	5	X	X	X	X	X	X	X		
B8-1			S	5	X	X	X	X	X	X			
B8-2			S	5	X	X	X	X	X	X			
B9-1			S	5	X	X	X	X	X	X			
B9-2			S	5	X	X	X	X	X	X			
B10-1	10/21	13:30	S	1 X	~~X~~	~~X~~	X	X	X	X			0'-1'
B10-2			S	HB 10/21/21		X	X	X	X	X			
B11-1	10/21	15:40	S	5	X	X	X	X	X	X			0'-1'
B11-2	10/21	15:45	S	5	X	X	X	X	X	X			9'-10'
B12-1	10/21	14:25	S	6	X	X	X	X	X	X			0'-1'
B12-2	10/21	14:30	S	6	X	X	X	X	X	X			6'-7'
Trip Blank + B12-3	10/21	14:35	T	2								X	interval = 14'-15'
Trip Blank 2 HBK	10/21/21		T	2								X	

Other Specified Analyses:

Received by lab in Good Condition: ✓ Yes ___ No Correctly Sealed Bottles: ✓ Yes ___ No Temperature upon arrival: 3.0°C 2.7°C Preservation OK: ✓ Yes ___ No
Describe problems, if any:

Sampler Name (Print): Hallum Busby	Date: 10/21/21	#1 Relinquished by (Signature): [signature]	Date: 10/21/21	#2 Relinquished by (Signature):	Date:	Sample Receipt Time Required:
Sampler Signature: [signature]	Time: 0900	Company Name: DAA	Time: 17:30	Company Name:	Time:	10 DYS CHGD WITHIN HOLD
Sampler Name (Print): Evan Trexler	Date: 10/21/21	#1 Received by (Signature):	Date:	#2 Received by (Signature): Rayon Williams	Date: 10-22-21	
Sampler Signature: [signature]	Time: 0900	Company Name:	Time:	Company Name:	Time: 9:50	

T: 3.0°C
2.7°C

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: Draper Cooler Inspected by/date: KDRW / 10/22/2021 Lot #: WJ22078

Means of receipt: ☐ Pace ☐ Client ☑ UPS ☐ FedEx ☐ Other: _____

☑ Yes	☐ No		1. Were custody seals present on the cooler?
☑ Yes	☐ No	☐ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 21-1928

3.0 / 3.0 °C 2.7 / 2.7 °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? _____
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☐ No	☑ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote # _____

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA _____ were received with bubbles >6 mm in diameter.

Samples(s) NA _____ were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: KDRW Date: 10/22/2021

Comments:

Report of Analysis

Draper Aden Associates
2206 South Main Street
Blacksburg, VA 24060
Attention: Janet Frazier

Project Name: Former Internet-Lynchburg Foundry Site

Project Number: B12188B-OHM

Lot Number:**WK02020**

Date Completed:12/07/2021

12/19/2021 9:42 PM
Approved and released by:
Project Manager II: **Cathy S. Dover**

The electronic signature above is the equivalent of a handwritten signature.
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Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

Case Narrative
Draper Aden Associates
Lot Number: WK02020

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample. All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation:

Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, Fecal Coliform SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, Solid Chemical Material: TOC Walkley-Black.

VOA 8260D

Sample WK02020-001 (MW1) was analyzed outside of analytical holding time due to scheduling error when the lab had an abundance of 8260D samples.

The continuing calibration verification (CCV) associated with analytical batch 21990 and sample WK02020-002 (MW2), recovered outside acceptance criteria, low biased, for Acetone (-25%). An LOQ standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect, no corrective action was taken.

The continuing calibration verification (CCV) associated with analytical batch 22055 and sample WK02020-003 (Trip Blank) recovered outside acceptance criteria, low biased, for Acetone (-27%) and 1,2-Dichloroethane (-21%). An LOQ standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect, no corrective action was taken.

The continuing calibration verification (CCV) associated with analytical batch 22055 and samples WK02020-001 (MW1) & WK02020-003 (Trip Blank), recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane (-22%). An LOQ standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect, no corrective action was taken.

Sample WK02020-003 (Trip Blank) was @ pH=5 at analysis time.

SVOA 8270E

The method blank associated with batch 21161 had Bis(2-ethylhexyl)phthalate detected at a concentration that was above the DL but below the 1/2 the LOQ. All samples associated with this method blank that have detections for Bis(2-ethylhexyl)phthalate have been flagged with a "B".

The MS/MSD for batch 21161 and parent sample WK02020-002 (MW2), recovered marginally outside the lower limit for 4-Chloroaniline. The associated LCS passed acceptance criteria.

Metals 6020B
The method blank associated with batch 21241 had Zinc detected at a concentration that was above the DL but below the 1/2 the LOQ. All samples associated with this method blank that have detections for Zinc have been flagged with a "B".

The MS/MSD for batch 21241 and parent sample WK02020-002 (MW2), recovered outside the upper control limit for Al, Ca, Mg, K and Na. The associated LCS passed acceptance criteria.

Cyanide 9012B
The MS/MSD for batch 21906 and parent sample WK02020-002 (MW2), recovered outside the upper control limit. The associated LCS passed acceptance criteria.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Sample Summary

Draper Aden Associates

Lot Number: WK02020

Project Name: Former Internet-Lynchburg Foundry Site

Project Number: B12188B-OHM

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW1	Aqueous	10/27/2021 1130	10/28/2021
002	MW2	Aqueous	10/27/2021 1235	10/28/2021
003	Trip Blank	Aqueous	10/27/2021 0800	10/28/2021

(3 samples)

Inorganic non-metals

Client: Draper Aden Associates			Laboratory ID: WK02020-001
Description: MW1			Matrix: Aqueous
Date Sampled: 10/27/2021 1130	Project Name: Former Internet-Lynchburg		
Date Received: 10/28/2021	Project Number: B12188B-OHM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/10/2021 1446	AAB	11/10/2021 1050	21906

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.010	U	0.010	0.0040	mg/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WK02020-001
Description: MW1			Matrix: Aqueous
Date Sampled: 10/27/2021 1130	Project Name: Former Internet-Lynchburg		
Date Received: 10/28/2021	Project Number: B12188B-OHM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/11/2021 0438	JWO		22055

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	10	UH	10	4.0	ug/L	1
Benzene	71-43-2	8260D	0.50	UH	0.50	0.40	ug/L	1
Bromochloromethane	74-97-5	8260D	0.50	UH	0.50	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	0.50	UH	0.50	0.40	ug/L	1
Bromoform	75-25-2	8260D	0.50	UH	0.50	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.50	UH	0.50	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	10	UH	10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	0.50	UH	0.50	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	0.50	UH	0.50	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	0.50	UH	0.50	0.40	ug/L	1
Chloroethane	75-00-3	8260D	0.50	UH	0.50	0.40	ug/L	1
Chloroform	67-66-3	8260D	0.50	UH	0.50	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.50	UH	0.50	0.40	ug/L	1
Cyclohexane	110-82-7	8260D	0.50	UH	0.50	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.50	UH	0.50	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	0.50	UH	0.50	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.50	UH	0.50	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	0.50	UH	0.50	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	0.50	UH	0.50	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	0.50	UH	0.50	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	0.50	UH	0.50	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	0.50	UH	0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	0.50	UH	0.50	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	1.5	H	0.50	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.50	UH	0.50	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.50	UH	0.50	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	0.50	UH	0.50	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.50	UH	0.50	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.50	UH	0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	0.50	UH	0.50	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	10	UH	10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	0.50	UH	0.50	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	1.0	UH	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.50	UH	0.50	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	10	UH	10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	5.0	UH	5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	0.50	UH	0.50	0.40	ug/L	1
Styrene	100-42-5	8260D	0.50	UH	0.50	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.50	UH	0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	0.50	UH	0.50	0.40	ug/L	1
Toluene	108-88-3	8260D	0.50	UH	0.50	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	1.0	UH	1.0	0.42	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.50	UH	0.50	0.40	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.50	UH	0.50	0.40	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WK02020-001
Description: MW1			Matrix: Aqueous
Date Sampled: 10/27/2021 1130	Project Name: Former Internet-Lynchburg		
Date Received: 10/28/2021	Project Number: B12188B-OHM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/11/2021 0438	JWO		22055

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.50	UH	0.50	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	0.50	UH	0.50	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	0.50	UH	0.50	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	0.50	UH	0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	0.50	UH	0.50	0.40	ug/L	1
m+p - Xylenes	179601-23-1	8260D	0.50	UH	0.50	0.40	ug/L	1
o - Xylenes	95-47-6	8260D	0.50	UH	0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene	H	92	70-130
1,2-Dichloroethane-d4	H	106	70-130
Toluene-d8	H	97	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WK02020-001
Description: MW1			Matrix: Aqueous
Date Sampled: 10/27/2021 1130	Project Name: Former Internet-Lynchburg		
Date Received: 10/28/2021	Project Number: B12188B-OHM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	12/06/2021 1515	CMF	11/03/2021 1500	21161

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.16	U	0.16	0.040	ug/L	1
Acenaphthylene	208-96-8	8270E	0.16	U	0.16	0.040	ug/L	1
Acetophenone	98-86-2	8270E	0.80	U	0.80	0.23	ug/L	1
Anthracene	120-12-7	8270E	0.16	U	0.16	0.040	ug/L	1
Atrazine	1912-24-9	8270E	0.80	U	0.80	0.20	ug/L	1
Benzaldehyde	100-52-7	8270E	4.0	U	4.0	0.27	ug/L	1
Benzo(a)anthracene	56-55-3	8270E	0.16	U	0.16	0.040	ug/L	1
Benzo(a)pyrene	50-32-8	8270E	0.046	J	0.16	0.040	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270E	0.051	J	0.16	0.040	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.16	U	0.16	0.040	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270E	0.16	U	0.16	0.040	ug/L	1
1,1'-Biphenyl	92-52-4	8270E	0.80	U	0.80	0.21	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.80	U	0.80	0.15	ug/L	1
Butyl benzyl phthalate	85-68-7	8270E	4.0	U	4.0	0.21	ug/L	1
Caprolactam	105-60-2	8270E	4.0	U	4.0	0.71	ug/L	1
Carbazole	86-74-8	8270E	0.80	U	0.80	0.040	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.80	U	0.80	0.17	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.80	U	0.80	0.26	ug/L	1
4-Chloroaniline	106-47-8	8270E	0.80	U	0.80	0.13	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.80	U	0.80	0.060	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.80	U	0.80	0.16	ug/L	1
2-Chloronaphthalene	91-58-7	8270E	0.80	U	0.80	0.15	ug/L	1
2-Chlorophenol	95-57-8	8270E	0.80	U	0.80	0.15	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.80	U	0.80	0.16	ug/L	1
Chrysene	218-01-9	8270E	0.16	U	0.16	0.040	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.16	U	0.16	0.040	ug/L	1
Dibenzofuran	132-64-9	8270E	0.80	U	0.80	0.16	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270E	4.0	U	4.0	0.81	ug/L	1
2,4-Dichlorophenol	120-83-2	8270E	0.80	U	0.80	0.19	ug/L	1
Diethylphthalate	84-66-2	8270E	4.0	U	4.0	0.19	ug/L	1
Dimethyl phthalate	131-11-3	8270E	4.0	U	4.0	0.18	ug/L	1
2,4-Dimethylphenol	105-67-9	8270E	0.80	U	0.80	0.15	ug/L	1
Di-n-butyl phthalate	84-74-2	8270E	4.0	U	4.0	0.42	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	4.0	U	4.0	0.89	ug/L	1
2,4-Dinitrophenol	51-28-5	8270E	4.0	U	4.0	1.3	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270E	1.6	U	1.6	0.36	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270E	1.6	U	1.6	0.34	ug/L	1
Di-n-octylphthalate	117-84-0	8270E	4.0	U	4.0	0.48	ug/L	1
1,4-Dioxane	123-91-1	8270E	0.57	J	10	0.20	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.55	BJ	4.0	0.38	ug/L	1
Fluoranthene	206-44-0	8270E	0.16	U	0.16	0.040	ug/L	1
Fluorene	86-73-7	8270E	0.16	U	0.16	0.040	ug/L	1
Hexachlorobenzene	118-74-1	8270E	0.80	U	0.80	0.15	ug/L	1
Hexachlorobutadiene	87-68-3	8270E	0.80	U	0.80	0.17	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates	Laboratory ID: WK02020-001
Description: MW1	Matrix: Aqueous
Date Sampled: 10/27/2021 1130	Project Name: Former Internet-Lynchburg
Date Received: 10/28/2021	Project Number: B12188B-OHM

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	12/06/2021 1515	CMF	11/03/2021 1500	21161

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	4.0	U	4.0	1.1	ug/L	1
Hexachloroethane	67-72-1	8270E	0.80	U	0.80	0.17	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.16	U	0.16	0.040	ug/L	1
Isophorone	78-59-1	8270E	0.80	U	0.80	0.22	ug/L	1
2-Methylnaphthalene	91-57-6	8270E	0.16	U	0.16	0.040	ug/L	1
2-Methylphenol	95-48-7	8270E	0.80	U	0.80	0.21	ug/L	1
3+4-Methylphenol	106-44-5	8270E	1.6	U	1.6	0.46	ug/L	1
Naphthalene	91-20-3	8270E	0.16	U	0.16	0.040	ug/L	1
2-Nitroaniline	88-74-4	8270E	1.6	U	1.6	0.66	ug/L	1
3-Nitroaniline	99-09-2	8270E	1.6	U	1.6	0.15	ug/L	1
4-Nitroaniline	100-01-6	8270E	1.6	U	1.6	1.3	ug/L	1
Nitrobenzene	98-95-3	8270E	0.80	U	0.80	0.17	ug/L	1
2-Nitrophenol	88-75-5	8270E	1.6	U	1.6	0.44	ug/L	1
4-Nitrophenol	100-02-7	8270E	4.0	U	4.0	2.1	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.80	U	0.80	0.28	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.80	U	0.80	0.50	ug/L	1
Pentachlorophenol	87-86-5	8270E	4.0	U	4.0	1.3	ug/L	1
Phenanthrene	85-01-8	8270E	0.16	U	0.16	0.040	ug/L	1
Phenol	108-95-2	8270E	0.80	U	0.80	0.19	ug/L	1
Pyrene	129-00-0	8270E	0.16	U	0.16	0.040	ug/L	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.80	U	0.80	0.25	ug/L	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.80	U	0.80	0.55	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.80	U	0.80	0.19	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.80	U	0.80	0.22	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		70	37-129
2-Fluorophenol		38	24-127
Nitrobenzene-d5		84	38-127
Phenol-d5		53	28-128
Terphenyl-d14		93	10-148
2,4,6-Tribromophenol		85	35-144

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H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates
Laboratory ID: WK02020-001
Description: MW1
Matrix: Aqueous
Date Sampled: 10/27/2021 1130
Project Name: Former Internet-Lynchburg
Date Received: 10/28/2021
Project Number: B12188B-OHM

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	11/09/2021 1736	CMS2	11/08/2021 1655	21631
1	3005A	6020B	1	11/08/2021 1709	BNW	11/07/2021 0954	21241
2	3005A	6020B	5	11/09/2021 1226	BNW	11/07/2021 0954	21241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	330		40	10	ug/L	1
Antimony	7440-36-0	6020B	2.0	U	2.0	0.50	ug/L	1
Arsenic	7440-38-2	6020B	2.0	U	2.0	1.3	ug/L	1
Barium	7440-39-3	6020B	320		5.0	1.3	ug/L	1
Beryllium	7440-41-7	6020B	0.40	U	0.40	0.15	ug/L	1
Cadmium	7440-43-9	6020B	0.50	U	0.50	0.13	ug/L	1
Calcium	7440-70-2	6020B	69000		2000	500	ug/L	2
Chromium	7440-47-3	6020B	5.0	U	5.0	1.3	ug/L	1
Cobalt	7440-48-4	6020B	1.4	J	5.0	1.3	ug/L	1
Copper	7440-50-8	6020B	5.0	U	5.0	1.3	ug/L	1
Iron	7439-89-6	6020B	8200		50	13	ug/L	1
Lead	7439-92-1	6020B	1.8		1.0	0.25	ug/L	1
Magnesium	7439-95-4	6020B	17000		400	50	ug/L	1
Manganese	7439-96-5	6020B	1100		25	6.3	ug/L	2
Mercury	7439-97-6	7470A	0.00020	U	0.00020	0.000091	mg/L	1
Nickel	7440-02-0	6020B	5.0	U	5.0	1.3	ug/L	1
Potassium	7440-09-7	6020B	5400		400	100	ug/L	1
Selenium	7782-49-2	6020B	5.0	U	5.0	1.3	ug/L	1
Silver	7440-22-4	6020B	1.0	U	1.0	0.25	ug/L	1
Sodium	7440-23-5	6020B	40000		400	150	ug/L	1
Thallium	7440-28-0	6020B	0.50	U	0.50	0.15	ug/L	1
Vanadium	7440-62-2	6020B	5.0	U	5.0	2.5	ug/L	1
Zinc	7440-66-6	6020B	5.7	BJ	10	2.5	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Inorganic non-metals

Client: Draper Aden Associates			Laboratory ID: WK02020-002
Description: MW2			Matrix: Aqueous
Date Sampled: 10/27/2021 1235	Project Name: Former Internet-Lynchburg		
Date Received: 10/28/2021	Project Number: B12188B-OHM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/10/2021 1447	AAB	11/10/2021 1050	21906

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.010	US	0.010	0.0040	mg/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WK02020-002
Description: MW2			Matrix: Aqueous
Date Sampled: 10/27/2021 1235	Project Name: Former Internet-Lynchburg		
Date Received: 10/28/2021	Project Number: B12188B-OHM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/10/2021 1809	BWS		21990

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	10	U	10	4.0	ug/L	1
Benzene	71-43-2	8260D	0.50	U	0.50	0.40	ug/L	1
Bromochloromethane	74-97-5	8260D	0.50	U	0.50	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	0.50	U	0.50	0.40	ug/L	1
Bromoform	75-25-2	8260D	0.50	U	0.50	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.50	U	0.50	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	10	U	10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	0.50	U	0.50	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	0.50	U	0.50	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	0.50	U	0.50	0.40	ug/L	1
Chloroethane	75-00-3	8260D	0.50	U	0.50	0.40	ug/L	1
Chloroform	67-66-3	8260D	0.50	U	0.50	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.50	U	0.50	0.40	ug/L	1
Cyclohexane	110-82-7	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.50	U	0.50	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	0.50	U	0.50	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	0.50	U	0.50	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	0.50	U	0.50	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	0.50	U	0.50	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.50	U	0.50	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	0.50	U	0.50	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.50	U	0.50	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.50	U	0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	0.50	U	0.50	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	10	U	10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	0.50	U	0.50	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	1.0	U	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.50	U	0.50	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	10	U	10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	5.0	U	5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	0.50	U	0.50	0.40	ug/L	1
Styrene	100-42-5	8260D	0.50	U	0.50	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.50	U	0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	0.50	U	0.50	0.40	ug/L	1
Toluene	108-88-3	8260D	0.50	U	0.50	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	1.0	U	1.0	0.42	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.50	U	0.50	0.40	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.50	U	0.50	0.40	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WK02020-002
Description: MW2			Matrix: Aqueous
Date Sampled: 10/27/2021 1235	Project Name: Former Internet-Lynchburg		
Date Received: 10/28/2021	Project Number: B12188B-OHM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/10/2021 1809	BWS		21990

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.50	U	0.50	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	0.50	U	0.50	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	0.50	U	0.50	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	0.50	U	0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	0.50	U	0.50	0.40	ug/L	1
m+p - Xylenes	179601-23-1	8260D	0.50	U	0.50	0.40	ug/L	1
o - Xylenes	95-47-6	8260D	0.50	U	0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		84	70-130
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		96	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WK02020-002
Description: MW2			Matrix: Aqueous
Date Sampled: 10/27/2021 1235	Project Name: Former Internet-Lynchburg		
Date Received: 10/28/2021	Project Number: B12188B-OHM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	12/06/2021 1540	CMF	11/03/2021 1500	21161

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.16	U	0.16	0.040	ug/L	1
Acenaphthylene	208-96-8	8270E	0.16	U	0.16	0.040	ug/L	1
Acetophenone	98-86-2	8270E	0.80	U	0.80	0.23	ug/L	1
Anthracene	120-12-7	8270E	0.16	U	0.16	0.040	ug/L	1
Atrazine	1912-24-9	8270E	0.80	U	0.80	0.20	ug/L	1
Benzaldehyde	100-52-7	8270E	4.0	U	4.0	0.27	ug/L	1
Benzo(a)anthracene	56-55-3	8270E	0.16	U	0.16	0.040	ug/L	1
Benzo(a)pyrene	50-32-8	8270E	0.16	U	0.16	0.040	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270E	0.16	U	0.16	0.040	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.16	U	0.16	0.040	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270E	0.16	U	0.16	0.040	ug/L	1
1,1'-Biphenyl	92-52-4	8270E	0.80	U	0.80	0.21	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.80	U	0.80	0.15	ug/L	1
Butyl benzyl phthalate	85-68-7	8270E	4.0	U	4.0	0.21	ug/L	1
Caprolactam	105-60-2	8270E	4.0	U	4.0	0.71	ug/L	1
Carbazole	86-74-8	8270E	0.80	U	0.80	0.040	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.80	U	0.80	0.17	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.80	U	0.80	0.26	ug/L	1
4-Chloroaniline	106-47-8	8270E	0.80	US	0.80	0.13	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.80	U	0.80	0.060	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.80	U	0.80	0.16	ug/L	1
2-Chloronaphthalene	91-58-7	8270E	0.80	U	0.80	0.15	ug/L	1
2-Chlorophenol	95-57-8	8270E	0.80	U	0.80	0.15	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.80	U	0.80	0.16	ug/L	1
Chrysene	218-01-9	8270E	0.16	U	0.16	0.040	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.16	U	0.16	0.040	ug/L	1
Dibenzofuran	132-64-9	8270E	0.80	U	0.80	0.16	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270E	4.0	U	4.0	0.81	ug/L	1
2,4-Dichlorophenol	120-83-2	8270E	0.80	U	0.80	0.19	ug/L	1
Diethylphthalate	84-66-2	8270E	4.0	U	4.0	0.19	ug/L	1
Dimethyl phthalate	131-11-3	8270E	4.0	U	4.0	0.18	ug/L	1
2,4-Dimethylphenol	105-67-9	8270E	0.80	U	0.80	0.15	ug/L	1
Di-n-butyl phthalate	84-74-2	8270E	4.0	U	4.0	0.42	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	4.0	U	4.0	0.89	ug/L	1
2,4-Dinitrophenol	51-28-5	8270E	4.0	U	4.0	1.3	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270E	1.6	U	1.6	0.36	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270E	1.6	U	1.6	0.34	ug/L	1
Di-n-octylphthalate	117-84-0	8270E	4.0	U	4.0	0.48	ug/L	1
1,4-Dioxane	123-91-1	8270E	10	U	10	0.20	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	0.52	BJ	4.0	0.38	ug/L	1
Fluoranthene	206-44-0	8270E	0.16	U	0.16	0.040	ug/L	1
Fluorene	86-73-7	8270E	0.16	U	0.16	0.040	ug/L	1
Hexachlorobenzene	118-74-1	8270E	0.80	U	0.80	0.15	ug/L	1
Hexachlorobutadiene	87-68-3	8270E	0.80	U	0.80	0.17	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates	Laboratory ID: WK02020-002
Description: MW2	Matrix: Aqueous
Date Sampled: 10/27/2021 1235	Project Name: Former Internet-Lynchburg
Date Received: 10/28/2021	Project Number: B12188B-OHM

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	12/06/2021 1540	CMF	11/03/2021 1500	21161

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	4.0	U	4.0	1.1	ug/L	1
Hexachloroethane	67-72-1	8270E	0.80	U	0.80	0.17	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.16	U	0.16	0.040	ug/L	1
Isophorone	78-59-1	8270E	0.80	U	0.80	0.22	ug/L	1
2-Methylnaphthalene	91-57-6	8270E	0.16	U	0.16	0.040	ug/L	1
2-Methylphenol	95-48-7	8270E	0.80	U	0.80	0.21	ug/L	1
3+4-Methylphenol	106-44-5	8270E	1.6	U	1.6	0.46	ug/L	1
Naphthalene	91-20-3	8270E	0.16	U	0.16	0.040	ug/L	1
2-Nitroaniline	88-74-4	8270E	1.6	U	1.6	0.66	ug/L	1
3-Nitroaniline	99-09-2	8270E	1.6	U	1.6	0.15	ug/L	1
4-Nitroaniline	100-01-6	8270E	1.6	U	1.6	1.3	ug/L	1
Nitrobenzene	98-95-3	8270E	0.80	U	0.80	0.17	ug/L	1
2-Nitrophenol	88-75-5	8270E	1.6	U	1.6	0.44	ug/L	1
4-Nitrophenol	100-02-7	8270E	4.0	U	4.0	2.1	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.80	U	0.80	0.28	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.80	U	0.80	0.50	ug/L	1
Pentachlorophenol	87-86-5	8270E	4.0	U	4.0	1.3	ug/L	1
Phenanthrene	85-01-8	8270E	0.16	U	0.16	0.040	ug/L	1
Phenol	108-95-2	8270E	0.80	U	0.80	0.19	ug/L	1
Pyrene	129-00-0	8270E	0.16	U	0.16	0.040	ug/L	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.80	U	0.80	0.25	ug/L	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.80	U	0.80	0.55	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.80	U	0.80	0.19	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.80	U	0.80	0.22	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		64	37-129
2-Fluorophenol		35	24-127
Nitrobenzene-d5		75	38-127
Phenol-d5		53	28-128
Terphenyl-d14		88	10-148
2,4,6-Tribromophenol		79	35-144

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates
Laboratory ID: WK02020-002
Description: MW2
Matrix: Aqueous
Date Sampled: 10/27/2021 1235
Project Name: Former Internet-Lynchburg
Date Received: 10/28/2021
Project Number: B12188B-OHM

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	11/09/2021 1738	CMS2	11/08/2021 1655	21631
1	3005A	6020B	1	11/08/2021 1711	BNW	11/07/2021 0954	21241
2	3005A	6020B	5	11/09/2021 1228	BNW	11/07/2021 0954	21241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	110	S	40	10	ug/L	1
Antimony	7440-36-0	6020B	2.0	U	2.0	0.50	ug/L	1
Arsenic	7440-38-2	6020B	2.0	U	2.0	1.3	ug/L	1
Barium	7440-39-3	6020B	97		5.0	1.3	ug/L	1
Beryllium	7440-41-7	6020B	0.40	U	0.40	0.15	ug/L	1
Cadmium	7440-43-9	6020B	0.50	U	0.50	0.13	ug/L	1
Calcium	7440-70-2	6020B	92000	S	2000	500	ug/L	2
Chromium	7440-47-3	6020B	5.0	U	5.0	1.3	ug/L	1
Cobalt	7440-48-4	6020B	5.0	U	5.0	1.3	ug/L	1
Copper	7440-50-8	6020B	5.0	U	5.0	1.3	ug/L	1
Iron	7439-89-6	6020B	5600		50	13	ug/L	1
Lead	7439-92-1	6020B	0.71	J	1.0	0.25	ug/L	1
Magnesium	7439-95-4	6020B	22000	S	400	50	ug/L	1
Manganese	7439-96-5	6020B	420		5.0	1.3	ug/L	1
Mercury	7439-97-6	7470A	0.00020	U	0.00020	0.000091	mg/L	1
Nickel	7440-02-0	6020B	5.0	U	5.0	1.3	ug/L	1
Potassium	7440-09-7	6020B	16000	S	400	100	ug/L	1
Selenium	7782-49-2	6020B	5.0	U	5.0	1.3	ug/L	1
Silver	7440-22-4	6020B	1.0	U	1.0	0.25	ug/L	1
Sodium	7440-23-5	6020B	39000	S	400	150	ug/L	1
Thallium	7440-28-0	6020B	0.50	U	0.50	0.15	ug/L	1
Vanadium	7440-62-2	6020B	5.0	U	5.0	2.5	ug/L	1
Zinc	7440-66-6	6020B	3.9	BJ	10	2.5	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WK02020-003
Description: Trip Blank			Matrix: Aqueous
Date Sampled: 10/27/2021 0800	Project Name: Former Internet-Lynchburg		
Date Received: 10/28/2021	Project Number: B12188B-OHM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/10/2021 2343	JWO		22055

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	10	U	10	4.0	ug/L	1
Benzene	71-43-2	8260D	0.50	U	0.50	0.40	ug/L	1
Bromochloromethane	74-97-5	8260D	0.50	U	0.50	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	0.50	U	0.50	0.40	ug/L	1
Bromoform	75-25-2	8260D	0.50	U	0.50	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.50	U	0.50	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	10	U	10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	0.50	U	0.50	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	0.50	U	0.50	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	0.50	U	0.50	0.40	ug/L	1
Chloroethane	75-00-3	8260D	0.50	U	0.50	0.40	ug/L	1
Chloroform	67-66-3	8260D	0.50	U	0.50	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.50	U	0.50	0.40	ug/L	1
Cyclohexane	110-82-7	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.50	U	0.50	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	0.50	U	0.50	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	0.50	U	0.50	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	0.50	U	0.50	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	0.50	U	0.50	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.50	U	0.50	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	0.50	U	0.50	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.50	U	0.50	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.50	U	0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	0.50	U	0.50	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	10	U	10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	0.50	U	0.50	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	1.0	U	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.50	U	0.50	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	10	U	10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	5.0	U	5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	0.50	U	0.50	0.40	ug/L	1
Styrene	100-42-5	8260D	0.50	U	0.50	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.50	U	0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	0.50	U	0.50	0.40	ug/L	1
Toluene	108-88-3	8260D	0.50	U	0.50	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	1.0	U	1.0	0.42	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.50	U	0.50	0.40	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.50	U	0.50	0.40	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WK02020-003
Description: Trip Blank			Matrix: Aqueous
Date Sampled: 10/27/2021 0800	Project Name: Former Internet-Lynchburg		
Date Received: 10/28/2021	Project Number: B12188B-OHM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/10/2021 2343	JWO		22055

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.50	U	0.50	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	0.50	U	0.50	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	0.50	U	0.50	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	0.50	U	0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	0.50	U	0.50	0.40	ug/L	1
m+p - Xylenes	179601-23-1	8260D	0.50	U	0.50	0.40	ug/L	1
o - Xylenes	95-47-6	8260D	0.50	U	0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		81	70-130
1,2-Dichloroethane-d4		119	70-130
Toluene-d8		96	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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QC Summary

Inorganic non-metals - MB

Sample ID: WQ21906-001
Batch: 21906
Analytical Method: 9012B

Matrix: Aqueous
Prep Method: 9012B
Prep Date: 11/10/2021 1050

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Cyanide - Total	0.010	U	1	0.010	0.0040	mg/L	11/10/2021 1440

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - LCS

Sample ID: WQ21906-002
Batch: 21906
Analytical Method: 9012B

Matrix: Aqueous
Prep Method: 9012B
Prep Date: 11/10/2021 1050

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Cyanide - Total	0.10	0.11		1	109	90-110	11/10/2021 1441

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - MS

Sample ID: WK02020-002MS
Batch: 21906
Analytical Method: 9012B

Matrix: Aqueous
Prep Method: 9012B
Prep Date: 11/10/2021 1050

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Cyanide - Total	0.0	0.10	0.11	N	1	111	90-110	11/10/2021 1448

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - MSD

Sample ID: WK02020-002MD
Batch: 21906
Analytical Method: 9012B

Matrix: Aqueous
Prep Method: 9012B
Prep Date: 11/10/2021 1050

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Cyanide - Total	0.0	0.10	0.11	N	1	114	2.7	90-110	20	11/10/2021 1449

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ21990-001
Batch: 21990
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	10	U	1	10	4.0	ug/L	11/10/2021 0957
Benzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Bromochloromethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Bromodichloromethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Bromoform	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Bromomethane (Methyl bromide)	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
2-Butanone (MEK)	10	U	1	10	2.0	ug/L	11/10/2021 0957
Carbon disulfide	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Carbon tetrachloride	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Chlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Chloroethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Chloroform	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Chloromethane (Methyl chloride)	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Cyclohexane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
1,2-Dibromo-3-chloropropane (DBCP)	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Dibromochloromethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
1,2-Dibromoethane (EDB)	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
1,2-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
1,3-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
1,4-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Dichlorodifluoromethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
1,1-Dichloroethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
1,2-Dichloroethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
1,1-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
cis-1,2-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
trans-1,2-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
1,2-Dichloropropane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
cis-1,3-Dichloropropene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
trans-1,3-Dichloropropene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Ethylbenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
2-Hexanone	10	U	1	10	2.0	ug/L	11/10/2021 0957
Isopropylbenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Methyl acetate	1.0	U	1	1.0	0.40	ug/L	11/10/2021 0957
Methyl tertiary butyl ether (MTBE)	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
4-Methyl-2-pentanone	10	U	1	10	2.0	ug/L	11/10/2021 0957
Methylcyclohexane	5.0	U	1	5.0	0.40	ug/L	11/10/2021 0957
Methylene chloride	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Styrene	0.50	U	1	0.50	0.41	ug/L	11/10/2021 0957
1,1,2,2-Tetrachloroethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Tetrachloroethene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Toluene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1	1.0	0.42	ug/L	11/10/2021 0957
1,2,3-Trichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
1,2,4-Trichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ21990-001
Batch: 21990
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,1,1-Trichloroethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
1,1,2-Trichloroethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Trichloroethene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Trichlorofluoromethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
Vinyl chloride	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
m+p - Xylenes	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957
o - Xylenes	0.50	U	1	0.50	0.40	ug/L	11/10/2021 0957

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		88	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ21990-002
Batch: 21990
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	75		1	75	60-140	11/10/2021 0852
Benzene	50	47		1	94	70-130	11/10/2021 0852
Bromochloromethane	50	46		1	92	70-130	11/10/2021 0852
Bromodichloromethane	50	44		1	89	70-130	11/10/2021 0852
Bromoform	50	51		1	103	70-130	11/10/2021 0852
Bromomethane (Methyl bromide)	50	52		1	104	70-130	11/10/2021 0852
2-Butanone (MEK)	100	92		1	92	70-130	11/10/2021 0852
Carbon disulfide	50	45		1	91	70-130	11/10/2021 0852
Carbon tetrachloride	50	43		1	87	70-130	11/10/2021 0852
Chlorobenzene	50	48		1	96	70-130	11/10/2021 0852
Chloroethane	50	52		1	104	70-130	11/10/2021 0852
Chloroform	50	49		1	98	70-130	11/10/2021 0852
Chloromethane (Methyl chloride)	50	49		1	98	60-140	11/10/2021 0852
Cyclohexane	50	45		1	90	70-130	11/10/2021 0852
1,2-Dibromo-3-chloropropane (DBCP)	50	45		1	89	70-130	11/10/2021 0852
Dibromochloromethane	50	46		1	92	70-130	11/10/2021 0852
1,2-Dibromoethane (EDB)	50	47		1	94	70-130	11/10/2021 0852
1,2-Dichlorobenzene	50	48		1	96	70-130	11/10/2021 0852
1,3-Dichlorobenzene	50	49		1	97	70-130	11/10/2021 0852
1,4-Dichlorobenzene	50	46		1	91	70-130	11/10/2021 0852
Dichlorodifluoromethane	50	46		1	93	60-140	11/10/2021 0852
1,1-Dichloroethane	50	44		1	88	70-130	11/10/2021 0852
1,2-Dichloroethane	50	42		1	85	70-130	11/10/2021 0852
1,1-Dichloroethene	50	48		1	96	70-130	11/10/2021 0852
cis-1,2-Dichloroethene	50	46		1	93	70-130	11/10/2021 0852
trans-1,2-Dichloroethene	50	46		1	92	70-130	11/10/2021 0852
1,2-Dichloropropane	50	43		1	86	70-130	11/10/2021 0852
cis-1,3-Dichloropropene	50	49		1	97	70-130	11/10/2021 0852
trans-1,3-Dichloropropene	50	52		1	103	70-130	11/10/2021 0852
Ethylbenzene	50	52		1	103	70-130	11/10/2021 0852
2-Hexanone	100	81		1	81	70-130	11/10/2021 0852
Isopropylbenzene	50	49		1	99	70-130	11/10/2021 0852
Methyl acetate	50	44		1	88	70-130	11/10/2021 0852
Methyl tertiary butyl ether (MTBE)	50	48		1	95	70-130	11/10/2021 0852
4-Methyl-2-pentanone	100	88		1	88	70-130	11/10/2021 0852
Methylcyclohexane	50	50		1	100	70-130	11/10/2021 0852
Methylene chloride	50	45		1	91	70-130	11/10/2021 0852
Styrene	50	50		1	100	70-130	11/10/2021 0852
1,1,2,2-Tetrachloroethane	50	49		1	98	70-130	11/10/2021 0852
Tetrachloroethene	50	48		1	96	70-130	11/10/2021 0852
Toluene	50	51		1	102	70-130	11/10/2021 0852
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	46		1	93	70-130	11/10/2021 0852
1,2,3-Trichlorobenzene	50	49		1	99	70-130	11/10/2021 0852
1,2,4-Trichlorobenzene	50	49		1	97	70-130	11/10/2021 0852

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ21990-002
Batch: 21990
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,1,1-Trichloroethane	50	44		1	89	70-130	11/10/2021 0852
1,1,2-Trichloroethane	50	47		1	94	70-130	11/10/2021 0852
Trichloroethene	50	46		1	92	70-130	11/10/2021 0852
Trichlorofluoromethane	50	48		1	95	70-130	11/10/2021 0852
Vinyl chloride	50	49		1	99	70-130	11/10/2021 0852
m+p - Xylenes	50	47		1	94	70-130	11/10/2021 0852
o - Xylenes	50	48		1	96	70-130	11/10/2021 0852

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		108	70-130
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: WK02020-002MS
Batch: 21990
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	0.0	100	71		1	71	60-140	11/10/2021 1923
Benzene	0.0	50	50		1	99	70-130	11/10/2021 1923
Bromochloromethane	0.0	50	45		1	90	70-130	11/10/2021 1923
Bromodichloromethane	0.0	50	46		1	92	70-130	11/10/2021 1923
Bromoform	0.0	50	49		1	97	70-130	11/10/2021 1923
Bromomethane (Methyl bromide)	0.0	50	51		1	102	70-130	11/10/2021 1923
2-Butanone (MEK)	0.0	100	88		1	88	70-130	11/10/2021 1923
Carbon disulfide	0.0	50	43		1	86	70-130	11/10/2021 1923
Carbon tetrachloride	0.0	50	43		1	87	70-130	11/10/2021 1923
Chlorobenzene	0.0	50	49		1	99	70-130	11/10/2021 1923
Chloroethane	0.0	50	51		1	102	70-130	11/10/2021 1923
Chloroform	0.0	50	48		1	97	70-130	11/10/2021 1923
Chloromethane (Methyl chloride)	0.0	50	38		1	76	60-140	11/10/2021 1923
Cyclohexane	0.0	50	43		1	86	70-130	11/10/2021 1923
1,2-Dibromo-3-chloropropane (DBCP)	0.0	50	41		1	82	70-130	11/10/2021 1923
Dibromochloromethane	0.0	50	49		1	98	70-130	11/10/2021 1923
1,2-Dibromoethane (EDB)	0.0	50	51		1	103	70-130	11/10/2021 1923
1,2-Dichlorobenzene	0.0	50	47		1	94	70-130	11/10/2021 1923
1,3-Dichlorobenzene	0.0	50	48		1	96	70-130	11/10/2021 1923
1,4-Dichlorobenzene	0.0	50	45		1	90	70-130	11/10/2021 1923
Dichlorodifluoromethane	0.0	50	39		1	78	60-140	11/10/2021 1923
1,1-Dichloroethane	0.0	50	44		1	87	70-130	11/10/2021 1923
1,2-Dichloroethane	0.0	50	43		1	87	70-130	11/10/2021 1923
1,1-Dichloroethene	0.0	50	47		1	93	70-130	11/10/2021 1923
cis-1,2-Dichloroethene	0.0	50	45		1	89	70-130	11/10/2021 1923
trans-1,2-Dichloroethene	0.0	50	46		1	92	70-130	11/10/2021 1923
1,2-Dichloropropane	0.0	50	46		1	93	70-130	11/10/2021 1923
cis-1,3-Dichloropropene	0.0	50	44		1	89	70-130	11/10/2021 1923
trans-1,3-Dichloropropene	0.0	50	46		1	92	70-130	11/10/2021 1923
Ethylbenzene	0.0	50	55		1	109	70-130	11/10/2021 1923
2-Hexanone	0.0	100	86		1	86	70-130	11/10/2021 1923
Isopropylbenzene	0.0	50	48		1	97	70-130	11/10/2021 1923
Methyl acetate	0.0	50	38		1	76	70-130	11/10/2021 1923
Methyl tertiary butyl ether (MTBE)	0.0	50	41		1	81	70-130	11/10/2021 1923
4-Methyl-2-pentanone	0.0	100	91		1	91	70-130	11/10/2021 1923
Methylcyclohexane	0.0	50	51		1	102	70-130	11/10/2021 1923
Methylene chloride	0.0	50	44		1	87	70-130	11/10/2021 1923
Styrene	0.0	50	52		1	103	70-130	11/10/2021 1923
1,1,2,2-Tetrachloroethane	0.0	50	49		1	98	70-130	11/10/2021 1923
Tetrachloroethene	0.0	50	52		1	105	70-130	11/10/2021 1923
Toluene	0.0	50	55		1	111	70-130	11/10/2021 1923
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0	50	50		1	99	70-130	11/10/2021 1923
1,2,3-Trichlorobenzene	0.0	50	46		1	92	70-130	11/10/2021 1923
1,2,4-Trichlorobenzene	0.0	50	44		1	89	70-130	11/10/2021 1923

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: WK02020-002MS
Batch: 21990
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,1,1-Trichloroethane	0.0	50	44		1	89	70-130	11/10/2021 1923
1,1,2-Trichloroethane	0.0	50	49		1	98	70-130	11/10/2021 1923
Trichloroethene	0.0	50	48		1	96	70-130	11/10/2021 1923
Trichlorofluoromethane	0.0	50	48		1	96	70-130	11/10/2021 1923
Vinyl chloride	0.0	50	50		1	100	70-130	11/10/2021 1923
m+p - Xylenes	0.0	50	49		1	98	70-130	11/10/2021 1923
o - Xylenes	0.0	50	47		1	93	70-130	11/10/2021 1923

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		111	70-130
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		110	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: WK02020-002MD
Batch: 21990
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Acetone	0.0	100	68		1	68	4.9	60-140	20	11/10/2021 1948
Benzene	0.0	50	50		1	99	0.16	70-130	20	11/10/2021 1948
Bromochloromethane	0.0	50	45		1	90	0.14	70-130	20	11/10/2021 1948
Bromodichloromethane	0.0	50	46		1	91	0.96	70-130	20	11/10/2021 1948
Bromoform	0.0	50	47		1	95	2.4	70-130	20	11/10/2021 1948
Bromomethane (Methyl bromide)	0.0	50	48		1	97	5.7	70-130	20	11/10/2021 1948
2-Butanone (MEK)	0.0	100	96		1	96	8.3	70-130	20	11/10/2021 1948
Carbon disulfide	0.0	50	45		1	91	5.3	70-130	20	11/10/2021 1948
Carbon tetrachloride	0.0	50	47		1	94	7.5	70-130	20	11/10/2021 1948
Chlorobenzene	0.0	50	49		1	99	0.22	70-130	20	11/10/2021 1948
Chloroethane	0.0	50	48		1	96	6.5	70-130	20	11/10/2021 1948
Chloroform	0.0	50	48		1	97	0.16	70-130	20	11/10/2021 1948
Chloromethane (Methyl chloride)	0.0	50	46		1	92	19	60-140	20	11/10/2021 1948
Cyclohexane	0.0	50	47		1	94	8.8	70-130	20	11/10/2021 1948
1,2-Dibromo-3-chloropropane (DBCP)	0.0	50	43		1	85	4.4	70-130	20	11/10/2021 1948
Dibromochloromethane	0.0	50	49		1	97	0.69	70-130	20	11/10/2021 1948
1,2-Dibromoethane (EDB)	0.0	50	51		1	101	1.8	70-130	20	11/10/2021 1948
1,2-Dichlorobenzene	0.0	50	49		1	97	4.0	70-130	20	11/10/2021 1948
1,3-Dichlorobenzene	0.0	50	50		1	100	4.4	70-130	20	11/10/2021 1948
1,4-Dichlorobenzene	0.0	50	47		1	93	3.0	70-130	20	11/10/2021 1948
Dichlorodifluoromethane	0.0	50	39		1	79	0.78	60-140	20	11/10/2021 1948
1,1-Dichloroethane	0.0	50	44		1	88	0.68	70-130	20	11/10/2021 1948
1,2-Dichloroethane	0.0	50	43		1	86	0.98	70-130	20	11/10/2021 1948
1,1-Dichloroethene	0.0	50	48		1	97	3.8	70-130	20	11/10/2021 1948
cis-1,2-Dichloroethene	0.0	50	46		1	92	3.7	70-130	20	11/10/2021 1948
trans-1,2-Dichloroethene	0.0	50	47		1	94	2.6	70-130	20	11/10/2021 1948
1,2-Dichloropropane	0.0	50	47		1	93	0.48	70-130	20	11/10/2021 1948
cis-1,3-Dichloropropene	0.0	50	45		1	91	2.3	70-130	20	11/10/2021 1948
trans-1,3-Dichloropropene	0.0	50	47		1	94	1.7	70-130	20	11/10/2021 1948
Ethylbenzene	0.0	50	55		1	110	0.48	70-130	20	11/10/2021 1948
2-Hexanone	0.0	100	87		1	87	1.1	70-130	20	11/10/2021 1948
Isopropylbenzene	0.0	50	50		1	100	2.8	70-130	20	11/10/2021 1948
Methyl acetate	0.0	50	39		1	78	2.4	70-130	20	11/10/2021 1948
Methyl tertiary butyl ether (MTBE)	0.0	50	44		1	88	8.5	70-130	20	11/10/2021 1948
4-Methyl-2-pentanone	0.0	100	94		1	94	3.5	70-130	20	11/10/2021 1948
Methylcyclohexane	0.0	50	55		1	109	6.7	70-130	20	11/10/2021 1948
Methylene chloride	0.0	50	44		1	88	1.4	70-130	20	11/10/2021 1948
Styrene	0.0	50	51		1	102	1.6	70-130	20	11/10/2021 1948
1,1,2,2-Tetrachloroethane	0.0	50	50		1	100	2.5	70-130	20	11/10/2021 1948
Tetrachloroethene	0.0	50	53		1	107	1.9	70-130	20	11/10/2021 1948
Toluene	0.0	50	56		1	111	0.60	70-130	20	11/10/2021 1948
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0	50	48		1	96	2.9	70-130	20	11/10/2021 1948
1,2,3-Trichlorobenzene	0.0	50	50		1	100	8.0	70-130	20	11/10/2021 1948
1,2,4-Trichlorobenzene	0.0	50	48		1	96	8.3	70-130	20	11/10/2021 1948

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: WK02020-002MD
Batch: 21990
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
1,1,1-Trichloroethane	0.0	50	47		1	93	5.0	70-130	20	11/10/2021 1948
1,1,2-Trichloroethane	0.0	50	49		1	97	0.41	70-130	20	11/10/2021 1948
Trichloroethene	0.0	50	48		1	96	0.34	70-130	20	11/10/2021 1948
Trichlorofluoromethane	0.0	50	48		1	96	0.23	70-130	20	11/10/2021 1948
Vinyl chloride	0.0	50	48		1	97	3.2	70-130	20	11/10/2021 1948
m+p - Xylenes	0.0	50	50		1	99	1.6	70-130	20	11/10/2021 1948
o - Xylenes	0.0	50	47		1	94	1.4	70-130	20	11/10/2021 1948

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		109	70-130
1,2-Dichloroethane-d4		90	70-130
Toluene-d8		107	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ22055-001
Batch: 22055
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	10	U	1	10	4.0	ug/L	11/10/2021 2215
Benzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Bromochloromethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Bromodichloromethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Bromoform	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Bromomethane (Methyl bromide)	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
2-Butanone (MEK)	10	U	1	10	2.0	ug/L	11/10/2021 2215
Carbon disulfide	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Carbon tetrachloride	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Chlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Chloroethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Chloroform	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Chloromethane (Methyl chloride)	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Cyclohexane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
1,2-Dibromo-3-chloropropane (DBCP)	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Dibromochloromethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
1,2-Dibromoethane (EDB)	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
1,2-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
1,3-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
1,4-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Dichlorodifluoromethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
1,1-Dichloroethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
1,2-Dichloroethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
1,1-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
cis-1,2-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
trans-1,2-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
1,2-Dichloropropane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
cis-1,3-Dichloropropene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
trans-1,3-Dichloropropene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Ethylbenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
2-Hexanone	10	U	1	10	2.0	ug/L	11/10/2021 2215
Isopropylbenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Methyl acetate	1.0	U	1	1.0	0.40	ug/L	11/10/2021 2215
Methyl tertiary butyl ether (MTBE)	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
4-Methyl-2-pentanone	10	U	1	10	2.0	ug/L	11/10/2021 2215
Methylcyclohexane	5.0	U	1	5.0	0.40	ug/L	11/10/2021 2215
Methylene chloride	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Styrene	0.50	U	1	0.50	0.41	ug/L	11/10/2021 2215
1,1,2,2-Tetrachloroethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Tetrachloroethene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Toluene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1	1.0	0.42	ug/L	11/10/2021 2215
1,2,3-Trichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
1,2,4-Trichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ22055-001
Batch: 22055
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,1,1-Trichloroethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
1,1,2-Trichloroethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Trichloroethene	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Trichlorofluoromethane	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
Vinyl chloride	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
m+p - Xylenes	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215
o - Xylenes	0.50	U	1	0.50	0.40	ug/L	11/10/2021 2215

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		85	70-130
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		95	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ22055-002
Batch: 22055
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	73		1	73	60-140	11/10/2021 2049
Benzene	50	44		1	89	70-130	11/10/2021 2049
Bromochloromethane	50	43		1	85	70-130	11/10/2021 2049
Bromodichloromethane	50	42		1	84	70-130	11/10/2021 2049
Bromoform	50	43		1	86	70-130	11/10/2021 2049
Bromomethane (Methyl bromide)	50	44		1	87	70-130	11/10/2021 2049
2-Butanone (MEK)	100	100		1	102	70-130	11/10/2021 2049
Carbon disulfide	50	42		1	85	70-130	11/10/2021 2049
Carbon tetrachloride	50	40		1	80	70-130	11/10/2021 2049
Chlorobenzene	50	45		1	90	70-130	11/10/2021 2049
Chloroethane	50	46		1	91	70-130	11/10/2021 2049
Chloroform	50	45		1	91	70-130	11/10/2021 2049
Chloromethane (Methyl chloride)	50	44		1	89	60-140	11/10/2021 2049
Cyclohexane	50	44		1	88	70-130	11/10/2021 2049
1,2-Dibromo-3-chloropropane (DBCP)	50	43		1	87	70-130	11/10/2021 2049
Dibromochloromethane	50	42		1	84	70-130	11/10/2021 2049
1,2-Dibromoethane (EDB)	50	46		1	92	70-130	11/10/2021 2049
1,2-Dichlorobenzene	50	48		1	97	70-130	11/10/2021 2049
1,3-Dichlorobenzene	50	50		1	99	70-130	11/10/2021 2049
1,4-Dichlorobenzene	50	46		1	92	70-130	11/10/2021 2049
Dichlorodifluoromethane	50	39		1	78	60-140	11/10/2021 2049
1,1-Dichloroethane	50	42		1	83	70-130	11/10/2021 2049
1,2-Dichloroethane	50	39		1	79	70-130	11/10/2021 2049
1,1-Dichloroethene	50	44		1	89	70-130	11/10/2021 2049
cis-1,2-Dichloroethene	50	47		1	93	70-130	11/10/2021 2049
trans-1,2-Dichloroethene	50	44		1	88	70-130	11/10/2021 2049
1,2-Dichloropropane	50	44		1	87	70-130	11/10/2021 2049
cis-1,3-Dichloropropene	50	49		1	99	70-130	11/10/2021 2049
trans-1,3-Dichloropropene	50	49		1	98	70-130	11/10/2021 2049
Ethylbenzene	50	51		1	102	70-130	11/10/2021 2049
2-Hexanone	100	84		1	84	70-130	11/10/2021 2049
Isopropylbenzene	50	48		1	95	70-130	11/10/2021 2049
Methyl acetate	50	42		1	85	70-130	11/10/2021 2049
Methyl tertiary butyl ether (MTBE)	50	50		1	99	70-130	11/10/2021 2049
4-Methyl-2-pentanone	100	95		1	95	70-130	11/10/2021 2049
Methylcyclohexane	50	53		1	105	70-130	11/10/2021 2049
Methylene chloride	50	42		1	85	70-130	11/10/2021 2049
Styrene	50	45		1	89	70-130	11/10/2021 2049
1,1,2,2-Tetrachloroethane	50	51		1	101	70-130	11/10/2021 2049
Tetrachloroethene	50	46		1	91	70-130	11/10/2021 2049
Toluene	50	50		1	99	70-130	11/10/2021 2049
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	43		1	86	70-130	11/10/2021 2049
1,2,3-Trichlorobenzene	50	54		1	108	70-130	11/10/2021 2049
1,2,4-Trichlorobenzene	50	56		1	112	70-130	11/10/2021 2049

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ22055-002
Batch: 22055
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,1,1-Trichloroethane	50	42		1	84	70-130	11/10/2021 2049
1,1,2-Trichloroethane	50	42		1	85	70-130	11/10/2021 2049
Trichloroethene	50	45		1	91	70-130	11/10/2021 2049
Trichlorofluoromethane	50	42		1	84	70-130	11/10/2021 2049
Vinyl chloride	50	44		1	87	70-130	11/10/2021 2049
m+p - Xylenes	50	46		1	91	70-130	11/10/2021 2049
o - Xylenes	50	47		1	94	70-130	11/10/2021 2049

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		79	70-130
Toluene-d8		92	70-130

LOQ = Limit of Quantitation
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N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: WQ21161-001
Batch: 21161
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 11/03/2021 1500

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acenaphthene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
Acenaphthylene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
Acetophenone	0.80	U	1	0.80	0.23	ug/L	12/06/2021 1424
Anthracene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
Atrazine	0.80	U	1	0.80	0.20	ug/L	12/06/2021 1424
Benzaldehyde	4.0	U	1	4.0	0.27	ug/L	12/06/2021 1424
Benzo(a)anthracene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
Benzo(a)pyrene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
Benzo(b)fluoranthene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
Benzo(g,h,i)perylene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
Benzo(k)fluoranthene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
1,1'-Biphenyl	0.80	U	1	0.80	0.21	ug/L	12/06/2021 1424
4-Bromophenyl phenyl ether	0.80	U	1	0.80	0.15	ug/L	12/06/2021 1424
Butyl benzyl phthalate	4.0	U	1	4.0	0.21	ug/L	12/06/2021 1424
Caprolactam	4.0	U	1	4.0	0.71	ug/L	12/06/2021 1424
Carbazole	0.80	U	1	0.80	0.040	ug/L	12/06/2021 1424
bis (2-Chloro-1-methylethyl) ether	0.80	U	1	0.80	0.17	ug/L	12/06/2021 1424
4-Chloro-3-methyl phenol	0.80	U	1	0.80	0.26	ug/L	12/06/2021 1424
4-Chloroaniline	0.80	U	1	0.80	0.13	ug/L	12/06/2021 1424
bis(2-Chloroethoxy)methane	0.80	U	1	0.80	0.060	ug/L	12/06/2021 1424
bis(2-Chloroethyl)ether	0.80	U	1	0.80	0.16	ug/L	12/06/2021 1424
2-Chloronaphthalene	0.80	U	1	0.80	0.15	ug/L	12/06/2021 1424
2-Chlorophenol	0.80	U	1	0.80	0.15	ug/L	12/06/2021 1424
4-Chlorophenyl phenyl ether	0.80	U	1	0.80	0.16	ug/L	12/06/2021 1424
Chrysene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
Dibenzo(a,h)anthracene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
Dibenzofuran	0.80	U	1	0.80	0.16	ug/L	12/06/2021 1424
3,3'-Dichlorobenzidine	4.0	U	1	4.0	0.81	ug/L	12/06/2021 1424
2,4-Dichlorophenol	0.80	U	1	0.80	0.19	ug/L	12/06/2021 1424
Diethylphthalate	4.0	U	1	4.0	0.19	ug/L	12/06/2021 1424
Dimethyl phthalate	4.0	U	1	4.0	0.18	ug/L	12/06/2021 1424
2,4-Dimethylphenol	0.80	U	1	0.80	0.15	ug/L	12/06/2021 1424
Di-n-butyl phthalate	4.0	U	1	4.0	0.42	ug/L	12/06/2021 1424
4,6-Dinitro-2-methylphenol	4.0	U	1	4.0	0.89	ug/L	12/06/2021 1424
2,4-Dinitrophenol	4.0	U	1	4.0	1.3	ug/L	12/06/2021 1424
2,4-Dinitrotoluene	1.6	U	1	1.6	0.36	ug/L	12/06/2021 1424
2,6-Dinitrotoluene	1.6	U	1	1.6	0.34	ug/L	12/06/2021 1424
Di-n-octylphthalate	4.0	U	1	4.0	0.48	ug/L	12/06/2021 1424
1,4-Dioxane	10	U	1	10	0.20	ug/L	12/06/2021 1424
bis(2-Ethylhexyl)phthalate	0.48	J	1	4.0	0.38	ug/L	12/06/2021 1424
Fluoranthene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
Fluorene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
Hexachlorobenzene	0.80	U	1	0.80	0.15	ug/L	12/06/2021 1424
Hexachlorobutadiene	0.80	U	1	0.80	0.17	ug/L	12/06/2021 1424

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: WQ21161-001
Batch: 21161
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 11/03/2021 1500

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Hexachlorocyclopentadiene	4.0	U	1	4.0	1.1	ug/L	12/06/2021 1424
Hexachloroethane	0.80	U	1	0.80	0.17	ug/L	12/06/2021 1424
Indeno(1,2,3-c,d)pyrene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
Isophorone	0.80	U	1	0.80	0.22	ug/L	12/06/2021 1424
2-Methylnaphthalene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
2-Methylphenol	0.80	U	1	0.80	0.21	ug/L	12/06/2021 1424
3+4-Methylphenol	1.6	U	1	1.6	0.46	ug/L	12/06/2021 1424
Naphthalene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
2-Nitroaniline	1.6	U	1	1.6	0.66	ug/L	12/06/2021 1424
3-Nitroaniline	1.6	U	1	1.6	0.15	ug/L	12/06/2021 1424
4-Nitroaniline	1.6	U	1	1.6	1.3	ug/L	12/06/2021 1424
Nitrobenzene	0.80	U	1	0.80	0.17	ug/L	12/06/2021 1424
2-Nitrophenol	1.6	U	1	1.6	0.44	ug/L	12/06/2021 1424
4-Nitrophenol	4.0	U	1	4.0	2.1	ug/L	12/06/2021 1424
N-Nitrosodi-n-propylamine	0.80	U	1	0.80	0.28	ug/L	12/06/2021 1424
N-Nitrosodiphenylamine (Diphenylamine)	0.80	U	1	0.80	0.50	ug/L	12/06/2021 1424
Pentachlorophenol	4.0	U	1	4.0	1.3	ug/L	12/06/2021 1424
Phenanthrene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
Phenol	0.80	U	1	0.80	0.19	ug/L	12/06/2021 1424
Pyrene	0.16	U	1	0.16	0.040	ug/L	12/06/2021 1424
1,2,4,5-Tetrachlorobenzene	0.80	U	1	0.80	0.25	ug/L	12/06/2021 1424
2,3,4,6-Tetrachlorophenol	0.80	U	1	0.80	0.55	ug/L	12/06/2021 1424
2,4,5-Trichlorophenol	0.80	U	1	0.80	0.19	ug/L	12/06/2021 1424
2,4,6-Trichlorophenol	0.80	U	1	0.80	0.22	ug/L	12/06/2021 1424

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		77	37-129
2-Fluorophenol		42	24-127
Nitrobenzene-d5		91	38-127
Phenol-d5		62	28-128
Terphenyl-d14		90	10-148
2,4,6-Tribromophenol		82	35-144

LOQ = Limit of Quantitation
DL = Detection Limit
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N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: WQ21161-002
Batch: 21161
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 11/03/2021 1500

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acenaphthene	8.0	5.9		1	74	30-122	12/06/2021 1450
Acenaphthylene	8.0	6.0		1	75	30-130	12/06/2021 1450
Acetophenone	8.0	6.7		1	84	52-125	12/06/2021 1450
Anthracene	8.0	5.8		1	73	30-123	12/06/2021 1450
Atrazine	8.0	5.7		1	71	25-121	12/06/2021 1450
Benzaldehyde	8.0	5.7		1	71	20-115	12/06/2021 1450
Benzo(a)anthracene	8.0	6.1		1	77	40-125	12/06/2021 1450
Benzo(a)pyrene	8.0	6.3		1	79	40-128	12/06/2021 1450
Benzo(b)fluoranthene	8.0	6.6		1	82	30-130	12/06/2021 1450
Benzo(g,h,i)perylene	8.0	7.5		1	94	30-130	12/06/2021 1450
Benzo(k)fluoranthene	8.0	6.4		1	81	30-130	12/06/2021 1450
1,1'-Biphenyl	8.0	5.5		1	69	42-120	12/06/2021 1450
4-Bromophenyl phenyl ether	8.0	5.8		1	73	30-124	12/06/2021 1450
Butyl benzyl phthalate	8.0	6.4		1	80	54-135	12/06/2021 1450
Caprolactam	8.0	5.8		1	73	44-152	12/06/2021 1450
Carbazole	8.0	5.8		1	73	45-101	12/06/2021 1450
bis (2-Chloro-1-methylethyl) ether	8.0	7.7		1	97	42-124	12/06/2021 1450
4-Chloro-3-methyl phenol	8.0	6.6		1	82	30-123	12/06/2021 1450
4-Chloroaniline	8.0	2.1		1	26	12-157	12/06/2021 1450
bis(2-Chloroethoxy)methane	8.0	6.5		1	81	44-127	12/06/2021 1450
bis(2-Chloroethyl)ether	8.0	7.0		1	87	46-120	12/06/2021 1450
2-Chloronaphthalene	8.0	5.3		1	67	46-100	12/06/2021 1450
2-Chlorophenol	8.0	5.7		1	71	50-117	12/06/2021 1450
4-Chlorophenyl phenyl ether	8.0	5.7		1	72	30-121	12/06/2021 1450
Chrysene	8.0	6.4		1	80	30-130	12/06/2021 1450
Dibenzo(a,h)anthracene	8.0	7.3		1	92	30-130	12/06/2021 1450
Dibenzofuran	8.0	5.6		1	70	30-118	12/06/2021 1450
3,3'-Dichlorobenzidine	8.0	2.7		1	34	10-126	12/06/2021 1450
2,4-Dichlorophenol	8.0	5.7		1	71	30-121	12/06/2021 1450
Diethylphthalate	8.0	6.7		1	83	40-125	12/06/2021 1450
Dimethyl phthalate	8.0	6.1		1	77	40-127	12/06/2021 1450
2,4-Dimethylphenol	8.0	6.6		1	82	20-125	12/06/2021 1450
Di-n-butyl phthalate	8.0	6.1		1	76	40-127	12/06/2021 1450
4,6-Dinitro-2-methylphenol	8.0	5.4		1	68	56-128	12/06/2021 1450
2,4-Dinitrophenol	16	6.9		1	43	11-126	12/06/2021 1450
2,4-Dinitrotoluene	8.0	6.1		1	76	59-127	12/06/2021 1450
2,6-Dinitrotoluene	8.0	5.8		1	73	59-126	12/06/2021 1450
Di-n-octylphthalate	8.0	5.9		1	73	50-136	12/06/2021 1450
1,4-Dioxane	8.0	6.4		1	80	30-130	12/06/2021 1450
bis(2-Ethylhexyl)phthalate	8.0	6.1		1	76	56-128	12/06/2021 1450
Fluoranthene	8.0	6.2		1	77	40-128	12/06/2021 1450
Fluorene	8.0	5.7		1	71	30-124	12/06/2021 1450
Hexachlorobenzene	8.0	6.2		1	78	30-125	12/06/2021 1450
Hexachlorobutadiene	8.0	5.9		1	73	24-110	12/06/2021 1450

LOQ = Limit of Quantitation
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J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: WQ21161-002
Batch: 21161
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 11/03/2021 1500

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Hexachlorocyclopentadiene	40	30		1	74	16-96	12/06/2021 1450
Hexachloroethane	8.0	5.6		1	70	31-110	12/06/2021 1450
Indeno(1,2,3-c,d)pyrene	8.0	7.3		1	91	30-130	12/06/2021 1450
Isophorone	8.0	7.1		1	89	57-123	12/06/2021 1450
2-Methylnaphthalene	8.0	6.0		1	75	40-132	12/06/2021 1450
2-Methylphenol	8.0	7.9		1	99	56-119	12/06/2021 1450
3+4-Methylphenol	8.0	6.2		1	78	53-119	12/06/2021 1450
Naphthalene	8.0	5.6		1	70	30-130	12/06/2021 1450
2-Nitroaniline	8.0	6.0		1	75	60-124	12/06/2021 1450
3-Nitroaniline	8.0	4.3		1	53	43-123	12/06/2021 1450
4-Nitroaniline	8.0	5.4		1	67	30-135	12/06/2021 1450
Nitrobenzene	8.0	7.1		1	88	51-122	12/06/2021 1450
2-Nitrophenol	8.0	6.0		1	76	51-118	12/06/2021 1450
4-Nitrophenol	16	18		1	110	53-130	12/06/2021 1450
N-Nitrosodi-n-propylamine	8.0	8.0		1	100	54-127	12/06/2021 1450
N-Nitrosodiphenylamine (Diphenylamine)	8.0	5.8		1	72	30-123	12/06/2021 1450
Pentachlorophenol	16	9.7		1	61	42-131	12/06/2021 1450
Phenanthrene	8.0	5.7		1	72	40-123	12/06/2021 1450
Phenol	8.0	6.2		1	77	49-117	12/06/2021 1450
Pyrene	8.0	6.0		1	76	40-126	12/06/2021 1450
1,2,4,5-Tetrachlorobenzene	8.0	5.4		1	68	30-130	12/06/2021 1450
2,3,4,6-Tetrachlorophenol	8.0	5.7		1	71	30-130	12/06/2021 1450
2,4,5-Trichlorophenol	8.0	5.8		1	72	30-123	12/06/2021 1450
2,4,6-Trichlorophenol	8.0	5.8		1	72	30-125	12/06/2021 1450

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		74	37-129
2-Fluorophenol		70	24-127
Nitrobenzene-d5		96	38-127
Phenol-d5		74	28-128
Terphenyl-d14		87	10-148
2,4,6-Tribromophenol		85	35-144

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: WK02020-002MS
Batch: 21161
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 11/03/2021 1500

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acenaphthene	0.0	8.0	5.7		1	72	30-122	12/06/2021 2251
Acenaphthylene	0.0	8.0	5.8		1	73	30-130	12/06/2021 2251
Acetophenone	0.0	8.0	7.2		1	89	52-125	12/06/2021 2251
Anthracene	0.0	8.0	5.6		1	70	30-123	12/06/2021 2251
Atrazine	0.0	8.0	5.6		1	70	25-121	12/06/2021 2251
Benzaldehyde	0.0	8.0	3.8		1	48	20-115	12/06/2021 2251
Benzo(a)anthracene	0.0	8.0	6.0		1	75	40-125	12/06/2021 2251
Benzo(a)pyrene	0.0	8.0	6.1		1	76	40-128	12/06/2021 2251
Benzo(b)fluoranthene	0.0	8.0	6.0		1	75	30-130	12/06/2021 2251
Benzo(g,h,i)perylene	0.0	8.0	6.6		1	82	30-130	12/06/2021 2251
Benzo(k)fluoranthene	0.0	8.0	6.3		1	79	30-130	12/06/2021 2251
1,1'-Biphenyl	0.0	8.0	5.4		1	68	42-120	12/06/2021 2251
4-Bromophenyl phenyl ether	0.0	8.0	5.7		1	71	30-124	12/06/2021 2251
Butyl benzyl phthalate	0.0	8.0	6.2		1	77	54-135	12/06/2021 2251
Caprolactam	0.0	8.0	7.4		1	92	44-152	12/06/2021 2251
Carbazole	0.0	8.0	6.5		1	81	45-101	12/06/2021 2251
bis (2-Chloro-1-methylethyl) ether	0.0	8.0	8.6		1	107	42-124	12/06/2021 2251
4-Chloro-3-methyl phenol	0.0	8.0	6.6		1	82	30-123	12/06/2021 2251
4-Chloroaniline	0.0	8.0	1.9	N	1	24	30-130	12/06/2021 2251
bis(2-Chloroethoxy)methane	0.0	8.0	6.1		1	77	44-127	12/06/2021 2251
bis(2-Chloroethyl)ether	0.0	8.0	7.4		1	92	46-120	12/06/2021 2251
2-Chloronaphthalene	0.0	8.0	5.2		1	65	46-100	12/06/2021 2251
2-Chlorophenol	0.0	8.0	5.7		1	71	50-117	12/06/2021 2251
4-Chlorophenyl phenyl ether	0.0	8.0	5.6		1	70	30-121	12/06/2021 2251
Chrysene	0.0	8.0	6.2		1	78	30-130	12/06/2021 2251
Dibenzo(a,h)anthracene	0.0	8.0	6.8		1	85	30-130	12/06/2021 2251
Dibenzofuran	0.0	8.0	5.4		1	67	30-118	12/06/2021 2251
3,3'-Dichlorobenzidine	0.0	8.0	1.6		1	20	10-126	12/06/2021 2251
2,4-Dichlorophenol	0.0	8.0	5.6		1	71	30-121	12/06/2021 2251
Diethylphthalate	0.0	8.0	6.7		1	84	40-125	12/06/2021 2251
Dimethyl phthalate	0.0	8.0	6.0		1	76	40-127	12/06/2021 2251
2,4-Dimethylphenol	0.0	8.0	7.6		1	94	20-125	12/06/2021 2251
Di-n-butyl phthalate	0.0	8.0	6.0		1	75	40-127	12/06/2021 2251
4,6-Dinitro-2-methylphenol	0.0	8.0	5.3		1	67	56-128	12/06/2021 2251
2,4-Dinitrophenol	0.0	16	9.9		1	62	30-130	12/06/2021 2251
2,4-Dinitrotoluene	0.0	8.0	6.0		1	75	59-127	12/06/2021 2251
2,6-Dinitrotoluene	0.0	8.0	5.8		1	72	59-126	12/06/2021 2251
Di-n-octylphthalate	0.0	8.0	5.8		1	72	50-136	12/06/2021 2251
1,4-Dioxane	0.0	8.0	7.4		1	92	30-130	12/06/2021 2251
bis(2-Ethylhexyl)phthalate	0.52	8.0	6.1		1	70	56-128	12/06/2021 2251
Fluoranthene	0.0	8.0	5.9		1	74	40-128	12/06/2021 2251
Fluorene	0.0	8.0	5.5		1	69	30-124	12/06/2021 2251
Hexachlorobenzene	0.0	8.0	5.9		1	73	30-125	12/06/2021 2251
Hexachlorobutadiene	0.0	8.0	5.4		1	68	30-130	12/06/2021 2251

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: WK02020-002MS
Batch: 21161
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 11/03/2021 1500

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Hexachlorocyclopentadiene	0.0	40	27		1	67	16-96	12/06/2021 2251
Hexachloroethane	0.0	8.0	5.5		1	68	31-110	12/06/2021 2251
Indeno(1,2,3-c,d)pyrene	0.0	8.0	6.8		1	85	30-130	12/06/2021 2251
Isophorone	0.0	8.0	7.2		1	89	57-123	12/06/2021 2251
2-Methylnaphthalene	0.0	8.0	5.8		1	72	40-132	12/06/2021 2251
2-Methylphenol	0.0	8.0	6.7		1	83	56-119	12/06/2021 2251
3+4-Methylphenol	0.0	8.0	7.1		1	89	53-119	12/06/2021 2251
Naphthalene	0.0	8.0	5.3		1	66	30-130	12/06/2021 2251
2-Nitroaniline	0.0	8.0	6.0		1	76	60-124	12/06/2021 2251
3-Nitroaniline	0.0	8.0	3.4		1	43	43-123	12/06/2021 2251
4-Nitroaniline	0.0	8.0	4.2		1	53	30-135	12/06/2021 2251
Nitrobenzene	0.0	8.0	7.1		1	89	51-122	12/06/2021 2251
2-Nitrophenol	0.0	8.0	6.0		1	75	51-118	12/06/2021 2251
4-Nitrophenol	0.0	16	18		1	112	53-130	12/06/2021 2251
N-Nitrosodi-n-propylamine	0.0	8.0	8.6		1	107	54-127	12/06/2021 2251
N-Nitrosodiphenylamine (Diphenylamine)	0.0	8.0	5.8		1	73	30-123	12/06/2021 2251
Pentachlorophenol	0.0	16	10		1	63	42-131	12/06/2021 2251
Phenanthrene	0.0	8.0	5.5		1	69	40-123	12/06/2021 2251
Phenol	0.0	8.0	6.7		1	84	49-117	12/06/2021 2251
Pyrene	0.0	8.0	5.6		1	70	40-126	12/06/2021 2251
1,2,4,5-Tetrachlorobenzene	0.0	8.0	5.1		1	64	30-130	12/06/2021 2251
2,3,4,6-Tetrachlorophenol	0.0	8.0	5.6		1	71	30-130	12/06/2021 2251
2,4,5-Trichlorophenol	0.0	8.0	6.2		1	78	30-123	12/06/2021 2251
2,4,6-Trichlorophenol	0.0	8.0	5.2		1	65	30-125	12/06/2021 2251

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		72	37-129
2-Fluorophenol		60	24-127
Nitrobenzene-d5		92	38-127
Phenol-d5		76	28-128
Terphenyl-d14		78	10-148
2,4,6-Tribromophenol		75	35-144

LOQ = Limit of Quantitation
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* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: WK02020-002MD
Batch: 21161
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 11/03/2021 1500

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	0.0	8.0	5.5		1	69	3.7	30-122	40	12/06/2021 2317
Acenaphthylene	0.0	8.0	5.6		1	70	5.0	30-130	40	12/06/2021 2317
Acetophenone	0.0	8.0	6.9		1	86	3.8	52-125	40	12/06/2021 2317
Anthracene	0.0	8.0	5.3		1	66	6.0	30-123	40	12/06/2021 2317
Atrazine	0.0	8.0	5.5		1	68	2.6	25-121	40	12/06/2021 2317
Benzaldehyde	0.0	8.0	3.3		1	41	15	20-115	40	12/06/2021 2317
Benzo(a)anthracene	0.0	8.0	5.8		1	73	2.7	40-125	40	12/06/2021 2317
Benzo(a)pyrene	0.0	8.0	5.9		1	73	3.5	40-128	40	12/06/2021 2317
Benzo(b)fluoranthene	0.0	8.0	5.8		1	73	3.1	30-130	40	12/06/2021 2317
Benzo(g,h,i)perylene	0.0	8.0	6.3		1	79	4.3	30-130	40	12/06/2021 2317
Benzo(k)fluoranthene	0.0	8.0	6.1		1	77	2.8	30-130	40	12/06/2021 2317
1,1'-Biphenyl	0.0	8.0	5.1		1	64	5.4	42-120	40	12/06/2021 2317
4-Bromophenyl phenyl ether	0.0	8.0	5.2		1	65	9.4	30-124	40	12/06/2021 2317
Butyl benzyl phthalate	0.0	8.0	6.0		1	75	2.1	54-135	40	12/06/2021 2317
Caprolactam	0.0	8.0	7.2		1	90	2.2	44-152	40	12/06/2021 2317
Carbazole	0.0	8.0	6.2		1	77	5.5	45-101	40	12/06/2021 2317
bis (2-Chloro-1-methylethyl) ether	0.0	8.0	8.0		1	100	7.2	42-124	40	12/06/2021 2317
4-Chloro-3-methyl phenol	0.0	8.0	6.5		1	81	1.6	30-123	40	12/06/2021 2317
4-Chloroaniline	0.0	8.0	1.9	N	1	24	2.3	30-130	40	12/06/2021 2317
bis(2-Chloroethoxy)methane	0.0	8.0	6.2		1	78	1.8	44-127	40	12/06/2021 2317
bis(2-Chloroethyl)ether	0.0	8.0	7.1		1	88	3.8	46-120	40	12/06/2021 2317
2-Chloronaphthalene	0.0	8.0	4.9		1	61	5.9	46-100	40	12/06/2021 2317
2-Chlorophenol	0.0	8.0	5.5		1	68	3.8	50-117	40	12/06/2021 2317
4-Chlorophenyl phenyl ether	0.0	8.0	5.4		1	67	3.6	30-121	40	12/06/2021 2317
Chrysene	0.0	8.0	6.0		1	76	3.3	30-130	40	12/06/2021 2317
Dibenzo(a,h)anthracene	0.0	8.0	6.4		1	80	5.4	30-130	40	12/06/2021 2317
Dibenzofuran	0.0	8.0	5.1		1	63	6.2	30-118	40	12/06/2021 2317
3,3'-Dichlorobenzidine	0.0	8.0	1.8		1	23	15	10-126	40	12/06/2021 2317
2,4-Dichlorophenol	0.0	8.0	5.5		1	69	2.1	30-121	40	12/06/2021 2317
Diethylphthalate	0.0	8.0	6.4		1	80	3.9	40-125	40	12/06/2021 2317
Dimethyl phthalate	0.0	8.0	5.9		1	73	3.2	40-127	40	12/06/2021 2317
2,4-Dimethylphenol	0.0	8.0	7.4		1	92	2.7	20-125	40	12/06/2021 2317
Di-n-butyl phthalate	0.0	8.0	5.8		1	72	3.7	40-127	40	12/06/2021 2317
4,6-Dinitro-2-methylphenol	0.0	8.0	5.3		1	66	1.2	56-128	40	12/06/2021 2317
2,4-Dinitrophenol	0.0	16	9.5		1	59	5.0	30-130	40	12/06/2021 2317
2,4-Dinitrotoluene	0.0	8.0	5.8		1	72	2.9	59-127	40	12/06/2021 2317
2,6-Dinitrotoluene	0.0	8.0	5.6		1	70	2.4	59-126	40	12/06/2021 2317
Di-n-octylphthalate	0.0	8.0	5.4		1	67	7.3	50-136	40	12/06/2021 2317
1,4-Dioxane	0.0	8.0	5.8		1	73	23	30-130	40	12/06/2021 2317
bis(2-Ethylhexyl)phthalate	0.52	8.0	5.7		1	65	6.7	56-128	40	12/06/2021 2317
Fluoranthene	0.0	8.0	5.6		1	70	5.6	40-128	40	12/06/2021 2317
Fluorene	0.0	8.0	5.3		1	66	4.0	30-124	40	12/06/2021 2317
Hexachlorobenzene	0.0	8.0	5.7		1	71	3.2	30-125	40	12/06/2021 2317
Hexachlorobutadiene	0.0	8.0	5.4		1	68	0.59	30-130	40	12/06/2021 2317

LOQ = Limit of Quantitation
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J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: WK02020-002MD
Batch: 21161
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 11/03/2021 1500

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Hexachlorocyclopentadiene	0.0	40	25		1	62	7.5	16-96	40	12/06/2021 2317
Hexachloroethane	0.0	8.0	5.3		1	66	2.9	31-110	40	12/06/2021 2317
Indeno(1,2,3-c,d)pyrene	0.0	8.0	6.4		1	80	5.3	30-130	40	12/06/2021 2317
Isophorone	0.0	8.0	7.2		1	90	0.61	57-123	40	12/06/2021 2317
2-Methylnaphthalene	0.0	8.0	5.7		1	71	2.3	40-132	40	12/06/2021 2317
2-Methylphenol	0.0	8.0	6.3		1	79	5.2	56-119	40	12/06/2021 2317
3+4-Methylphenol	0.0	8.0	6.6		1	83	7.2	53-119	40	12/06/2021 2317
Naphthalene	0.0	8.0	5.4		1	67	1.9	30-130	40	12/06/2021 2317
2-Nitroaniline	0.0	8.0	6.0		1	75	1.3	60-124	40	12/06/2021 2317
3-Nitroaniline	0.0	8.0	3.5		1	44	3.4	43-123	40	12/06/2021 2317
4-Nitroaniline	0.0	8.0	4.8		1	60	12	30-135	40	12/06/2021 2317
Nitrobenzene	0.0	8.0	6.8		1	85	4.1	51-122	40	12/06/2021 2317
2-Nitrophenol	0.0	8.0	5.9		1	73	3.0	51-118	40	12/06/2021 2317
4-Nitrophenol	0.0	16	17		1	105	6.7	53-130	40	12/06/2021 2317
N-Nitrosodi-n-propylamine	0.0	8.0	8.4		1	105	2.2	54-127	40	12/06/2021 2317
N-Nitrosodiphenylamine (Diphenylamine)	0.0	8.0	5.2		1	65	12	30-123	40	12/06/2021 2317
Pentachlorophenol	0.0	16	9.5		1	59	5.3	42-131	40	12/06/2021 2317
Phenanthrene	0.0	8.0	5.3		1	66	5.4	40-123	40	12/06/2021 2317
Phenol	0.0	8.0	6.2		1	77	8.3	49-117	40	12/06/2021 2317
Pyrene	0.0	8.0	5.6		1	69	0.52	40-126	40	12/06/2021 2317
1,2,4,5-Tetrachlorobenzene	0.0	8.0	4.8		1	60	6.3	30-130	40	12/06/2021 2317
2,3,4,6-Tetrachlorophenol	0.0	8.0	5.4		1	67	5.1	30-130	40	12/06/2021 2317
2,4,5-Trichlorophenol	0.0	8.0	5.7		1	71	9.3	30-123	40	12/06/2021 2317
2,4,6-Trichlorophenol	0.0	8.0	5.1		1	64	2.9	30-125	40	12/06/2021 2317

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		70	37-129
2-Fluorophenol		58	24-127
Nitrobenzene-d5		94	38-127
Phenol-d5		73	28-128
Terphenyl-d14		80	10-148
2,4,6-Tribromophenol		75	35-144

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MB

Sample ID: WQ21241-001
Batch: 21241
Analytical Method: 6020B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 11/07/2021 0954

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aluminum	40	U	1	40	10	ug/L	11/08/2021 1659
Antimony	2.0	U	1	2.0	0.50	ug/L	11/08/2021 1659
Arsenic	2.0	U	1	2.0	1.3	ug/L	11/08/2021 1659
Barium	5.0	U	1	5.0	1.3	ug/L	11/08/2021 1659
Beryllium	0.40	U	1	0.40	0.15	ug/L	11/08/2021 1659
Cadmium	0.50	U	1	0.50	0.13	ug/L	11/08/2021 1659
Calcium	400	U	1	400	100	ug/L	11/08/2021 1659
Chromium	5.0	U	1	5.0	1.3	ug/L	11/08/2021 1659
Cobalt	5.0	U	1	5.0	1.3	ug/L	11/08/2021 1659
Copper	5.0	U	1	5.0	1.3	ug/L	11/08/2021 1659
Iron	50	U	1	50	13	ug/L	11/08/2021 1659
Lead	1.0	U	1	1.0	0.25	ug/L	11/08/2021 1659
Magnesium	400	U	1	400	50	ug/L	11/08/2021 1659
Manganese	5.0	U	1	5.0	1.3	ug/L	11/08/2021 1659
Nickel	5.0	U	1	5.0	1.3	ug/L	11/08/2021 1659
Potassium	400	U	1	400	100	ug/L	11/08/2021 1659
Selenium	5.0	U	1	5.0	1.3	ug/L	11/08/2021 1659
Silver	1.0	U	1	1.0	0.25	ug/L	11/08/2021 1659
Sodium	400	U	1	400	150	ug/L	11/08/2021 1659
Thallium	0.50	U	1	0.50	0.15	ug/L	11/08/2021 1659
Vanadium	5.0	U	1	5.0	2.5	ug/L	11/08/2021 1659
Zinc	3.2	J	1	10	2.5	ug/L	11/08/2021 1659

LOQ = Limit of Quantitation
DL = Detection Limit
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J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - LCS

Sample ID: WQ21241-002
Batch: 21241
Analytical Method: 6020B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 11/07/2021 0954

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aluminum	100	96		1	96	80-120	11/08/2021 1701
Antimony	100	97		1	97	80-120	11/08/2021 1701
Arsenic	100	99		1	99	80-120	11/08/2021 1701
Barium	100	93		1	93	80-120	11/08/2021 1701
Beryllium	100	110		1	105	80-120	11/08/2021 1701
Cadmium	100	100		1	100	80-120	11/08/2021 1701
Calcium	1000	850		1	85	80-120	11/08/2021 1701
Chromium	100	100		1	101	80-120	11/08/2021 1701
Cobalt	100	99		1	99	80-120	11/08/2021 1701
Copper	100	110		1	106	80-120	11/08/2021 1701
Iron	1000	950		1	95	80-120	11/08/2021 1701
Lead	100	95		1	95	80-120	11/08/2021 1701
Magnesium	1000	960		1	96	80-120	11/08/2021 1701
Manganese	100	100		1	101	80-120	11/08/2021 1701
Nickel	100	100		1	103	80-120	11/08/2021 1701
Potassium	1000	960		1	96	80-120	11/08/2021 1701
Selenium	100	97		1	97	80-120	11/08/2021 1701
Silver	100	97		1	97	80-120	11/08/2021 1701
Sodium	1000	1000		1	105	80-120	11/08/2021 1701
Thallium	100	93		1	93	80-120	11/08/2021 1701
Vanadium	100	100		1	101	80-120	11/08/2021 1701
Zinc	100	100		1	102	80-120	11/08/2021 1701

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MS

Sample ID: WK02020-002MS
Batch: 21241
Analytical Method: 6020B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 11/07/2021 0954

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aluminum	110	100	240	N	1	130	75-125	11/08/2021 1713
Antimony	0.0	100	97		1	97	75-125	11/08/2021 1713
Arsenic	0.0	100	97		1	97	75-125	11/08/2021 1713
Barium	97	100	200		1	99	75-125	11/08/2021 1713
Beryllium	0.0	100	110		1	105	75-125	11/08/2021 1713
Cadmium	0.0	100	100		1	100	75-125	11/08/2021 1713
Calcium	92000	1000	95000	N	5	241	75-125	11/09/2021 1230
Chromium	0.0	100	100		1	100	75-125	11/08/2021 1713
Cobalt	0.0	100	95		1	95	75-125	11/08/2021 1713
Copper	0.0	100	100		1	100	75-125	11/08/2021 1713
Iron	5600	1000	6800		1	118	75-125	11/08/2021 1713
Lead	0.71	100	94		1	94	75-125	11/08/2021 1713
Magnesium	22000	1000	23000	N	1	197	75-125	11/08/2021 1713
Manganese	420	100	530		1	109	75-125	11/08/2021 1713
Nickel	0.0	100	99		1	99	75-125	11/08/2021 1713
Potassium	16000	1000	17000	N	1	160	75-125	11/08/2021 1713
Selenium	0.0	100	98		1	98	75-125	11/08/2021 1713
Silver	0.0	100	93		1	93	75-125	11/08/2021 1713
Sodium	39000	1000	41000	N	1	237	75-125	11/08/2021 1713
Thallium	0.0	100	94		1	94	75-125	11/08/2021 1713
Vanadium	0.0	100	100		1	101	75-125	11/08/2021 1713
Zinc	3.9	100	99		1	95	75-125	11/08/2021 1713

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MSD

Sample ID: WK02020-002MD
Batch: 21241
Analytical Method: 6020B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 11/07/2021 0954

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Aluminum	110	100	270	N	1	166	14	75-125	20	11/08/2021 1716
Antimony	0.0	100	99		1	99	1.6	75-125	20	11/08/2021 1716
Arsenic	0.0	100	100		1	100	2.6	75-125	20	11/08/2021 1716
Barium	97	100	200		1	102	1.6	75-125	20	11/08/2021 1716
Beryllium	0.0	100	110		1	107	1.2	75-125	20	11/08/2021 1716
Cadmium	0.0	100	100		1	101	1.7	75-125	20	11/08/2021 1716
Calcium	92000	1000	100000	N	5	1050	8.2	75-125	20	11/09/2021 1232
Chromium	0.0	100	100		1	101	1.8	75-125	20	11/08/2021 1716
Cobalt	0.0	100	98		1	98	2.8	75-125	20	11/08/2021 1716
Copper	0.0	100	100		1	104	3.6	75-125	20	11/08/2021 1716
Iron	5600	1000	6800		1	122	0.68	75-125	20	11/08/2021 1716
Lead	0.71	100	98		1	98	3.9	75-125	20	11/08/2021 1716
Magnesium	22000	1000	24000	N	1	213	0.70	75-125	20	11/08/2021 1716
Manganese	420	100	530		1	111	0.35	75-125	20	11/08/2021 1716
Nickel	0.0	100	100		1	102	3.1	75-125	20	11/08/2021 1716
Potassium	16000	1000	17000	N	1	163	0.22	75-125	20	11/08/2021 1716
Selenium	0.0	100	100		1	100	1.5	75-125	20	11/08/2021 1716
Silver	0.0	100	95		1	95	2.4	75-125	20	11/08/2021 1716
Sodium	39000	1000	41000	N	1	260	0.55	75-125	20	11/08/2021 1716
Thallium	0.0	100	95		1	95	1.2	75-125	20	11/08/2021 1716
Vanadium	0.0	100	100		1	104	2.7	75-125	20	11/08/2021 1716
Zinc	3.9	100	100		1	97	2.3	75-125	20	11/08/2021 1716

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MB

Sample ID: WQ21631-001
Batch: 21631
Analytical Method: 7470A

Matrix: Aqueous
Prep Method:
Prep Date: 11/08/2021 1655

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Mercury	0.00020	U	1	0.00020	0.000091	mg/L	11/09/2021 1636

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - LCS

Sample ID: WQ21631-002
Batch: 21631
Analytical Method: 7470A

Matrix: Aqueous
Prep Method:
Prep Date: 11/08/2021 1655

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Mercury	0.0020	0.0019		1	97	80-120	11/09/2021 1639

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MS

Sample ID: WK02020-002MS
Batch: 21631
Analytical Method: 7470A

Matrix: Aqueous
Prep Method:
Prep Date: 11/08/2021 1655

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Mercury	0.0	0.0020	0.0019		1	97	80-120	11/09/2021 1741

LOQ = Limit of Quantitation
DL = Detection Limit

U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MSD

Sample ID: WK02020-002MD
Batch: 21631
Analytical Method: 7470A

Matrix: Aqueous
Prep Method:
Prep Date: 11/08/2021 1655

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Mercury	0.0	0.0020	0.0020		1	99	1.8	80-120	20	11/09/2021 1744

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Chain of Custody
and
Miscellaneous Documents

CHAIN OF CUSTODY RECORD

Laboratory: Pace Analytical Services, LLC (formerly Shealy), 106 Vantage Point Drive, West Columbia, SC 29172 Project Manager: Cathy Dover (803) 791-9180

Client: Lynchburg EDA
Attn: Majestic Upshur
Address: 900 Church St, Lynchburg, VA
Phone: (434) 455-4852
Fax:

Consultant: Cooper Adam Associates
Attn: Jason C. Frazier
Address: 2346 South Main Street, Blacksburg, Virginia 24060
Phone: (540) 552-4444
Fax: (540) 552-1941

Former Internal/Lynchburg Foundry Site
1651 Concord Tnpk
Lynchburg, VA
Phase II ESA
R12186B-10HM

Project Specific (Pol or Bank ID) On: Sample Collection for Project Complete? YES
1E237 30101970145/5
Carrier:
Tracking Number:

Box 1 - Matrix: SW Surface Water; GW Groundwater; L Leachate; S Soil; T Trip Blank; E Equipment Blank; P Product; O Other

Box 2: Preservative: A HCl; B H_2SO_4; C HNO_3; D $Na_2S_2O_3$

Use 3 Filtered - F; Not Filtered U
Box 4: Container AG Amber glass; CG Clear Glass; V - VOA; P plastic

Box 4 Sample Type: C Grab; C Composite

Invoice: Copy to Consultant: YES; Bill: Consultant; OTHER; Preserved and shipped on ice: YES

Sample ID	Date: 2021	Time	Box 1: Matrix	Number of Bottles	VOCs- TAL List 8260D/5030B - extra low level (XLL)	VOCs- TAL List 8260D/5030B - extra low level (XLL) - unpreserved. Use if effervescence noted.	8270 E/3520C - TAL Semivolatiles including PAHs (See attached TAL analyte list)	6020B (3005A)/7470A - Total Metals (TAL)	9012B/9020A - Cyanide	6020B/7470A/3005A - Dissolved Metals (TAL) - ug/L if sample is turbid	HOLD SAMPLE EA 10/25/21	Metals pH	Cyanide pH
Box 2 - Sample Type					G	G	G	G	G	G			
Box 3 - Filtered/Unfiltered					U	U	U	U	U	U			
Required pH of Sample					<2			<2	<2	<2			
Box 2 - Preservative					A	H	H	A	B	A			
Box 5 - Sample Container Type					3- 40 ml VOA	3-40 mlVOA	2- 250 ml AG	1 - 250 ml P	1 - 250 ml P	1 - 250 ml P			
MW1	10-27	1130	GW	7	X		X	X	X			12	>12
MW2	10-27	1235	GW	7	X		X	X	X			12	>12
MW2MS	10-27	1235	GW	7	X		X	X	X			12	>12
MW2MSD	10-27	1235	GW	7	X		X	X	X			12	>12
Trip Blank	10-27-21	0800	TB	2	X								

GENERAL NOTES:
1. Full deliverable with EF EDD (electronic report only).
2. Report DL/QL and estimated results.
3. VOL/AP Reconciliation required.
See attached target analyte lists.
4. Report results in ug/l.
EPA/Brownfield Project

WK02020
CSD

1 trip blank per day. Consolidate VOCs with trip blank.

Special Instructions:
Received by: Is in Good Condition ✓ Yes ___ No Custody Seal Intact ✓ Yes ___ No Temperature upon arrival 4-1 °C Received on Ice ✓ Yes ___ No
Sample Name: Ian McGregor
Date: 10-27-21
Time: 0730
Relinquished by (Signature): DAR
Company Name: DAR
Date: 10-27-21
Time: 1700
#2 Relinquished by (Signature): UPS
Company Name:
Date: 10/28/21
Time: 1000
#3 Received by (Signature): [illegible]
Company Name: Pace
Date: 10/28/21
Time: 1000
Sample Storage Temperature
33 CYS GRAB NUNSWIDING

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: Draper Cooler Inspected by/date: KSC / 11/02/2021 Lot #: WK02020

Means of receipt: ☐ Pace ☐ Client ☑ UPS ☐ FedEx ☐ Other:

☑ Yes	☐ No		1. Were custody seals present on the cooler?
☑ Yes	☐ No	☐ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: 21-852 Chlorine Strip ID: 21-454 Tested by: JSH

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA

4.7 / 4.7 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☑ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☑ Yes	☐ No	☐ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☑ Yes	☐ No	☐ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☑ Yes	☐ No	☐ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA

SR barcode labels applied by: JSH Date: 11/02/2021

Comments:

Report of Analysis

Draper Aden Associates
2206 South Main Street
Blacksburg, VA 24060
Attention: Janet Frazier

Project Name: Former Intermet-Lynchburg Foundry Site

Project Number: B12188B-10HM

Lot Number:**WK10133**

Date Completed:12/11/2021

12/19/2021 10:43 PM
Approved and released by:
Project Manager II: **Cathy S. Dover**

The electronic signature above is the equivalent of a handwritten signature.
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Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

Case Narrative
Draper Aden Associates
Lot Number: WK10133

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation:

Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, Fecal Coliform SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, Solid Chemical Material: TOC Walkley-Black.

VOA 8260D
The continuing calibration verification (CCV) associated with analytical batch 23203 and sample WK10133-001 (EQB (1 & 2)) recovered outside acceptance criteria, low biased, for Cyclohexane (-25%) An LOQ standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect, no corrective action was taken.

SVOA 8270E
The laboratory control sample (LCS) for analytical batch 23780 recovered outside acceptance criteria for multiple analytes. The one associated sample, WK10133-001 (EQB (1 & 2)), had insufficient sample amount to perform a re-extraction. The data has been reported.

The method blank associated with batch 22129 had a few analytes detected at a concentration that was above the DL but below the LOQ. The sample associated with this method blanks was non-detect for all analytes; therefore the data has been reported.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Sample Summary

Draper Aden Associates

Lot Number: WK10133

Project Name: Former Intermet-Lynchburg Foundry Site

Project Number: B12188B-10HM

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	EQB (1 & 2)	Aqueous	11/08/2021 0900	11/09/2021

(1 sample)

Inorganic non-metals

Client:	Draper Aden Associates		Laboratory ID: WK10133-001
Description:	EQB (1 & 2)		Matrix: Aqueous
Date Sampled:	11/08/2021 0900	Project Name: Former Intermet-Lynchburg	
Date Received:	11/09/2021	Project Number: B12188B-10HM	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	11/17/2021 1731	AAB	11/16/2021 1543	22635

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Cyanide - Total	57-12-5	9012B	0.010	U	0.010	0.0040	mg/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WK10133-001
Description: EQB (1 & 2)			Matrix: Aqueous
Date Sampled: 11/08/2021 0900	Project Name: Former Intermet-Lynchburg		
Date Received: 11/09/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/20/2021 0057	BBW		23203

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	7.6	J	10	4.0	ug/L	1
Benzene	71-43-2	8260D	0.50	U	0.50	0.40	ug/L	1
Bromochloromethane	74-97-5	8260D	0.50	U	0.50	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	0.50	U	0.50	0.40	ug/L	1
Bromoform	75-25-2	8260D	0.50	U	0.50	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	0.50	U	0.50	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	10	U	10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	0.50	U	0.50	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	0.50	U	0.50	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	0.50	U	0.50	0.40	ug/L	1
Chloroethane	75-00-3	8260D	0.50	U	0.50	0.40	ug/L	1
Chloroform	67-66-3	8260D	0.59		0.50	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	0.50	U	0.50	0.40	ug/L	1
Cyclohexane	110-82-7	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	0.50	U	0.50	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	0.50	U	0.50	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	0.50	U	0.50	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	0.50	U	0.50	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	0.50	U	0.50	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	0.50	U	0.50	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.50	U	0.50	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.50	U	0.50	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	0.50	U	0.50	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	0.50	U	0.50	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	0.50	U	0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	0.50	U	0.50	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	10	U	10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	0.50	U	0.50	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	1.0	U	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.50	U	0.50	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	10	U	10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	5.0	U	5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	0.50	U	0.50	0.40	ug/L	1
Styrene	100-42-5	8260D	0.50	U	0.50	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	0.50	U	0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	0.50	U	0.50	0.40	ug/L	1
Toluene	108-88-3	8260D	0.50	U	0.50	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	1.0	U	1.0	0.42	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260D	0.50	U	0.50	0.40	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	0.50	U	0.50	0.40	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WK10133-001
Description: EQB (1 & 2)			Matrix: Aqueous
Date Sampled: 11/08/2021 0900	Project Name: Former Intermet-Lynchburg		
Date Received: 11/09/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/20/2021 0057	BBW		23203

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	0.50	U	0.50	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	0.50	U	0.50	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	0.50	U	0.50	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	0.50	U	0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	0.50	U	0.50	0.40	ug/L	1
m+p - Xylenes	179601-23-1	8260D	0.50	U	0.50	0.40	ug/L	1
o - Xylenes	95-47-6	8260D	0.50	U	0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates			Laboratory ID: WK10133-001
Description: EQB (1 & 2)			Matrix: Aqueous
Date Sampled: 11/08/2021 0900	Project Name: Former Intermet-Lynchburg		
Date Received: 11/09/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	11/28/2021 2155	CMF	11/11/2021 1500	22129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270E	0.16	U	0.16	0.040	ug/L	1
Acenaphthylene	208-96-8	8270E	0.16	U	0.16	0.040	ug/L	1
Acetophenone	98-86-2	8270E	0.80	U	0.80	0.23	ug/L	1
Anthracene	120-12-7	8270E	0.16	U	0.16	0.040	ug/L	1
Atrazine	1912-24-9	8270E	0.80	U	0.80	0.20	ug/L	1
Benzaldehyde	100-52-7	8270E	4.0	U	4.0	0.27	ug/L	1
Benzo(a)anthracene	56-55-3	8270E	0.16	U	0.16	0.040	ug/L	1
Benzo(a)pyrene	50-32-8	8270E	0.16	U	0.16	0.040	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270E	0.16	U	0.16	0.040	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270E	0.16	U	0.16	0.040	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270E	0.16	U	0.16	0.040	ug/L	1
1,1'-Biphenyl	92-52-4	8270E	0.80	U	0.80	0.21	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270E	0.80	U	0.80	0.15	ug/L	1
Butyl benzyl phthalate	85-68-7	8270E	4.0	U	4.0	0.21	ug/L	1
Caprolactam	105-60-2	8270E	4.0	U	4.0	0.71	ug/L	1
Carbazole	86-74-8	8270E	0.80	U	0.80	0.040	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270E	0.80	UL	0.80	0.17	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270E	0.80	U	0.80	0.26	ug/L	1
4-Chloroaniline	106-47-8	8270E	0.80	U	0.80	0.13	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270E	0.80	U	0.80	0.060	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270E	0.80	UL	0.80	0.16	ug/L	1
2-Chloronaphthalene	91-58-7	8270E	0.80	U	0.80	0.15	ug/L	1
2-Chlorophenol	95-57-8	8270E	0.80	U	0.80	0.15	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270E	0.80	U	0.80	0.16	ug/L	1
Chrysene	218-01-9	8270E	0.16	U	0.16	0.040	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270E	0.16	U	0.16	0.040	ug/L	1
Dibenzofuran	132-64-9	8270E	0.80	U	0.80	0.16	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270E	4.0	U	4.0	0.81	ug/L	1
2,4-Dichlorophenol	120-83-2	8270E	0.80	U	0.80	0.19	ug/L	1
Diethylphthalate	84-66-2	8270E	4.0	U	4.0	0.19	ug/L	1
Dimethyl phthalate	131-11-3	8270E	4.0	U	4.0	0.18	ug/L	1
2,4-Dimethylphenol	105-67-9	8270E	0.80	U	0.80	0.15	ug/L	1
Di-n-butyl phthalate	84-74-2	8270E	4.0	U	4.0	0.42	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270E	4.0	U	4.0	0.89	ug/L	1
2,4-Dinitrophenol	51-28-5	8270E	4.0	U	4.0	1.3	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270E	1.6	U	1.6	0.36	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270E	1.6	U	1.6	0.34	ug/L	1
Di-n-octylphthalate	117-84-0	8270E	4.0	U	4.0	0.48	ug/L	1
1,4-Dioxane	123-91-1	8270E	10	U	10	0.20	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270E	4.0	U	4.0	0.38	ug/L	1
Fluoranthene	206-44-0	8270E	0.16	U	0.16	0.040	ug/L	1
Fluorene	86-73-7	8270E	0.16	U	0.16	0.040	ug/L	1
Hexachlorobenzene	118-74-1	8270E	0.80	U	0.80	0.15	ug/L	1
Hexachlorobutadiene	87-68-3	8270E	0.80	U	0.80	0.17	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: Draper Aden Associates	Laboratory ID: WK10133-001
Description: EQB (1 & 2)	Matrix: Aqueous
Date Sampled: 11/08/2021 0900	Project Name: Former Intermet-Lynchburg
Date Received: 11/09/2021	Project Number: B12188B-10HM

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	11/28/2021 2155	CMF	11/11/2021 1500	22129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270E	4.0	U	4.0	1.1	ug/L	1
Hexachloroethane	67-72-1	8270E	0.80	U	0.80	0.17	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270E	0.16	U	0.16	0.040	ug/L	1
Isophorone	78-59-1	8270E	0.80	UL	0.80	0.22	ug/L	1
2-Methylnaphthalene	91-57-6	8270E	0.16	U	0.16	0.040	ug/L	1
2-Methylphenol	95-48-7	8270E	0.80	UL	0.80	0.21	ug/L	1
3+4-Methylphenol	106-44-5	8270E	1.6	UL	1.6	0.46	ug/L	1
Naphthalene	91-20-3	8270E	0.16	U	0.16	0.040	ug/L	1
2-Nitroaniline	88-74-4	8270E	1.6	UL	1.6	0.66	ug/L	1
3-Nitroaniline	99-09-2	8270E	1.6	UL	1.6	0.15	ug/L	1
4-Nitroaniline	100-01-6	8270E	1.6	U	1.6	1.3	ug/L	1
Nitrobenzene	98-95-3	8270E	0.80	U	0.80	0.17	ug/L	1
2-Nitrophenol	88-75-5	8270E	1.6	U	1.6	0.44	ug/L	1
4-Nitrophenol	100-02-7	8270E	4.0	UL	4.0	2.1	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270E	0.80	U	0.80	0.28	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270E	0.80	U	0.80	0.50	ug/L	1
Pentachlorophenol	87-86-5	8270E	4.0	UL	4.0	1.3	ug/L	1
Phenanthrene	85-01-8	8270E	0.16	U	0.16	0.040	ug/L	1
Phenol	108-95-2	8270E	0.80	UL	0.80	0.19	ug/L	1
Pyrene	129-00-0	8270E	0.16	U	0.16	0.040	ug/L	1
1,2,4,5-Tetrachlorobenzene	95-94-3	8270E	0.80	U	0.80	0.25	ug/L	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270E	0.80	U	0.80	0.55	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270E	0.80	U	0.80	0.19	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270E	0.80	U	0.80	0.22	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		49	37-129
2-Fluorophenol		24	24-127
Nitrobenzene-d5		53	38-127
Phenol-d5		34	28-128
Terphenyl-d14		71	10-148
2,4,6-Tribromophenol		54	35-144

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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ICP-MS

Client: Draper Aden Associates			Laboratory ID: WK10133-001
Description: EQB (1 & 2)			Matrix: Aqueous
Date Sampled: 11/08/2021 0900	Project Name: Former Intermet-Lynchburg		
Date Received: 11/09/2021	Project Number: B12188B-10HM		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	11/16/2021 1248	JAB2	11/16/2021 0704	22576
1	3005A	6020B	1	11/17/2021 1805	BNW	11/17/2021 0100	22256

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aluminum	7429-90-5	6020B	39	J	40	10	ug/L	1
Antimony	7440-36-0	6020B	2.0	U	2.0	0.50	ug/L	1
Arsenic	7440-38-2	6020B	2.0	U	2.0	1.3	ug/L	1
Barium	7440-39-3	6020B	4.4	J	5.0	1.3	ug/L	1
Beryllium	7440-41-7	6020B	0.40	U	0.40	0.15	ug/L	1
Cadmium	7440-43-9	6020B	0.50	U	0.50	0.13	ug/L	1
Calcium	7440-70-2	6020B	400	U	400	100	ug/L	1
Chromium	7440-47-3	6020B	5.0	U	5.0	1.3	ug/L	1
Cobalt	7440-48-4	6020B	5.0	U	5.0	1.3	ug/L	1
Copper	7440-50-8	6020B	5.0	U	5.0	1.3	ug/L	1
Iron	7439-89-6	6020B	96		50	13	ug/L	1
Lead	7439-92-1	6020B	1.0	U	1.0	0.25	ug/L	1
Magnesium	7439-95-4	6020B	400	U	400	50	ug/L	1
Manganese	7439-96-5	6020B	9.2		5.0	1.3	ug/L	1
Mercury	7439-97-6	7470A	0.00020	U	0.00020	0.000091	mg/L	1
Nickel	7440-02-0	6020B	5.0	U	5.0	1.3	ug/L	1
Potassium	7440-09-7	6020B	400	U	400	100	ug/L	1
Selenium	7782-49-2	6020B	5.0	U	5.0	1.3	ug/L	1
Silver	7440-22-4	6020B	1.0	U	1.0	0.25	ug/L	1
Sodium	7440-23-5	6020B	400	U	400	150	ug/L	1
Thallium	7440-28-0	6020B	0.50	U	0.50	0.15	ug/L	1
Vanadium	7440-62-2	6020B	5.0	U	5.0	2.5	ug/L	1
Zinc	7440-66-6	6020B	10	U	10	2.5	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
U = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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QC Summary

Inorganic non-metals - MB

Sample ID: WQ22635-001
Batch: 22635
Analytical Method: 9012B

Matrix: Aqueous
Prep Method: 9012B
Prep Date: 11/16/2021 1543

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Cyanide - Total	0.010	U	1	0.010	0.0040	mg/L	11/17/2021 1722

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Inorganic non-metals - LCS

Sample ID: WQ22635-002
Batch: 22635
Analytical Method: 9012B

Matrix: Aqueous
Prep Method: 9012B
Prep Date: 11/16/2021 1543

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Cyanide - Total	0.10	0.10		1	101	90-110	11/17/2021 1723

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ23203-001
Batch: 23203
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	10	U	1	10	4.0	ug/L	11/19/2021 2310
Benzene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Bromochloromethane	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Bromodichloromethane	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Bromoform	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Bromomethane (Methyl bromide)	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
2-Butanone (MEK)	10	U	1	10	2.0	ug/L	11/19/2021 2310
Carbon disulfide	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Carbon tetrachloride	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Chlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Chloroethane	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Chloroform	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Chloromethane (Methyl chloride)	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Cyclohexane	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
1,2-Dibromo-3-chloropropane (DBCP)	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Dibromochloromethane	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
1,2-Dibromoethane (EDB)	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
1,2-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
1,3-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
1,4-Dichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Dichlorodifluoromethane	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
1,1-Dichloroethane	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
1,2-Dichloroethane	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
1,1-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
cis-1,2-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
trans-1,2-Dichloroethene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
1,2-Dichloropropane	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
cis-1,3-Dichloropropene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
trans-1,3-Dichloropropene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Ethylbenzene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
2-Hexanone	10	U	1	10	2.0	ug/L	11/19/2021 2310
Isopropylbenzene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Methyl acetate	1.0	U	1	1.0	0.40	ug/L	11/19/2021 2310
Methyl tertiary butyl ether (MTBE)	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
4-Methyl-2-pentanone	10	U	1	10	2.0	ug/L	11/19/2021 2310
Methylcyclohexane	5.0	U	1	5.0	0.40	ug/L	11/19/2021 2310
Methylene chloride	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Styrene	0.50	U	1	0.50	0.41	ug/L	11/19/2021 2310
1,1,2,2-Tetrachloroethane	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Tetrachloroethene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Toluene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1	1.0	0.42	ug/L	11/19/2021 2310
1,2,3-Trichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
1,2,4-Trichlorobenzene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ23203-001
Batch: 23203
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,1,1-Trichloroethane	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
1,1,2-Trichloroethane	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Trichloroethene	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Trichlorofluoromethane	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
Vinyl chloride	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
m+p - Xylenes	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310
o - Xylenes	0.50	U	1	0.50	0.40	ug/L	11/19/2021 2310

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ23203-002
Batch: 23203
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	98		1	98	60-140	11/19/2021 2206
Benzene	50	45		1	89	70-130	11/19/2021 2206
Bromochloromethane	50	48		1	96	70-130	11/19/2021 2206
Bromodichloromethane	50	45		1	89	70-130	11/19/2021 2206
Bromoform	50	46		1	93	70-130	11/19/2021 2206
Bromomethane (Methyl bromide)	50	52		1	103	70-130	11/19/2021 2206
2-Butanone (MEK)	100	85		1	85	70-130	11/19/2021 2206
Carbon disulfide	50	45		1	90	70-130	11/19/2021 2206
Carbon tetrachloride	50	45		1	89	70-130	11/19/2021 2206
Chlorobenzene	50	45		1	90	70-130	11/19/2021 2206
Chloroethane	50	45		1	89	70-130	11/19/2021 2206
Chloroform	50	45		1	90	70-130	11/19/2021 2206
Chloromethane (Methyl chloride)	50	48		1	97	60-140	11/19/2021 2206
Cyclohexane	50	37		1	75	70-130	11/19/2021 2206
1,2-Dibromo-3-chloropropane (DBCP)	50	41		1	82	70-130	11/19/2021 2206
Dibromochloromethane	50	46		1	92	70-130	11/19/2021 2206
1,2-Dibromoethane (EDB)	50	44		1	87	70-130	11/19/2021 2206
1,2-Dichlorobenzene	50	45		1	89	70-130	11/19/2021 2206
1,3-Dichlorobenzene	50	45		1	90	70-130	11/19/2021 2206
1,4-Dichlorobenzene	50	44		1	88	70-130	11/19/2021 2206
Dichlorodifluoromethane	50	49		1	97	60-140	11/19/2021 2206
1,1-Dichloroethane	50	44		1	88	70-130	11/19/2021 2206
1,2-Dichloroethane	50	45		1	90	70-130	11/19/2021 2206
1,1-Dichloroethene	50	46		1	93	70-130	11/19/2021 2206
cis-1,2-Dichloroethene	50	44		1	89	70-130	11/19/2021 2206
trans-1,2-Dichloroethene	50	43		1	86	70-130	11/19/2021 2206
1,2-Dichloropropane	50	43		1	85	70-130	11/19/2021 2206
cis-1,3-Dichloropropene	50	44		1	87	70-130	11/19/2021 2206
trans-1,3-Dichloropropene	50	44		1	89	70-130	11/19/2021 2206
Ethylbenzene	50	45		1	90	70-130	11/19/2021 2206
2-Hexanone	100	87		1	87	70-130	11/19/2021 2206
Isopropylbenzene	50	45		1	90	70-130	11/19/2021 2206
Methyl acetate	50	45		1	90	70-130	11/19/2021 2206
Methyl tertiary butyl ether (MTBE)	50	48		1	95	70-130	11/19/2021 2206
4-Methyl-2-pentanone	100	88		1	88	70-130	11/19/2021 2206
Methylcyclohexane	50	42		1	83	70-130	11/19/2021 2206
Methylene chloride	50	49		1	99	70-130	11/19/2021 2206
Styrene	50	45		1	90	70-130	11/19/2021 2206
1,1,2,2-Tetrachloroethane	50	42		1	85	70-130	11/19/2021 2206
Tetrachloroethene	50	47		1	93	70-130	11/19/2021 2206
Toluene	50	44		1	89	70-130	11/19/2021 2206
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	46		1	91	70-130	11/19/2021 2206
1,2,3-Trichlorobenzene	50	45		1	89	70-130	11/19/2021 2206
1,2,4-Trichlorobenzene	50	44		1	88	70-130	11/19/2021 2206

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ23203-002
Batch: 23203
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,1,1-Trichloroethane	50	45		1	91	70-130	11/19/2021 2206
1,1,2-Trichloroethane	50	44		1	87	70-130	11/19/2021 2206
Trichloroethene	50	45		1	90	70-130	11/19/2021 2206
Trichlorofluoromethane	50	46		1	92	70-130	11/19/2021 2206
Vinyl chloride	50	50		1	99	70-130	11/19/2021 2206
m+p - Xylenes	50	45		1	90	70-130	11/19/2021 2206
o - Xylenes	50	46		1	91	70-130	11/19/2021 2206

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		85	70-130
1,2-Dichloroethane-d4		91	70-130
Toluene-d8		89	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: WQ22129-001
Batch: 22129
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 11/11/2021 1500

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acenaphthene	0.16	U	1	0.16	0.040	ug/L	11/28/2021 1628
Acenaphthylene	0.16	U	1	0.16	0.040	ug/L	11/28/2021 1628
Acetophenone	0.80	U	1	0.80	0.23	ug/L	11/28/2021 1628
Anthracene	0.16	U	1	0.16	0.040	ug/L	11/28/2021 1628
Atrazine	0.80	U	1	0.80	0.20	ug/L	11/28/2021 1628
Benzaldehyde	4.0	U	1	4.0	0.27	ug/L	11/28/2021 1628
Benzo(a)anthracene	0.16	U	1	0.16	0.040	ug/L	11/28/2021 1628
Benzo(a)pyrene	0.047	J	1	0.16	0.040	ug/L	11/28/2021 1628
Benzo(b)fluoranthene	0.045	J	1	0.16	0.040	ug/L	11/28/2021 1628
Benzo(g,h,i)perylene	0.062	J	1	0.16	0.040	ug/L	11/28/2021 1628
Benzo(k)fluoranthene	0.16	U	1	0.16	0.040	ug/L	11/28/2021 1628
1,1'-Biphenyl	0.80	U	1	0.80	0.21	ug/L	11/28/2021 1628
4-Bromophenyl phenyl ether	0.80	U	1	0.80	0.15	ug/L	11/28/2021 1628
Butyl benzyl phthalate	4.0	U	1	4.0	0.21	ug/L	11/28/2021 1628
Caprolactam	4.0	U	1	4.0	0.71	ug/L	11/28/2021 1628
Carbazole	0.80	U	1	0.80	0.040	ug/L	11/28/2021 1628
bis (2-Chloro-1-methylethyl) ether	0.80	U	1	0.80	0.17	ug/L	11/28/2021 1628
4-Chloro-3-methyl phenol	0.80	U	1	0.80	0.26	ug/L	11/28/2021 1628
4-Chloroaniline	0.80	U	1	0.80	0.13	ug/L	11/28/2021 1628
bis(2-Chloroethoxy)methane	0.80	U	1	0.80	0.060	ug/L	11/28/2021 1628
bis(2-Chloroethyl)ether	0.80	U	1	0.80	0.16	ug/L	11/28/2021 1628
2-Chloronaphthalene	0.80	U	1	0.80	0.15	ug/L	11/28/2021 1628
2-Chlorophenol	0.80	U	1	0.80	0.15	ug/L	11/28/2021 1628
4-Chlorophenyl phenyl ether	0.80	U	1	0.80	0.16	ug/L	11/28/2021 1628
Chrysene	0.16	U	1	0.16	0.040	ug/L	11/28/2021 1628
Dibenzo(a,h)anthracene	0.13	J	1	0.16	0.040	ug/L	11/28/2021 1628
Dibenzofuran	0.80	U	1	0.80	0.16	ug/L	11/28/2021 1628
3,3'-Dichlorobenzidine	4.0	U	1	4.0	0.81	ug/L	11/28/2021 1628
2,4-Dichlorophenol	0.80	U	1	0.80	0.19	ug/L	11/28/2021 1628
Diethylphthalate	4.0	U	1	4.0	0.19	ug/L	11/28/2021 1628
Dimethyl phthalate	4.0	U	1	4.0	0.18	ug/L	11/28/2021 1628
2,4-Dimethylphenol	0.80	U	1	0.80	0.15	ug/L	11/28/2021 1628
Di-n-butyl phthalate	4.0	U	1	4.0	0.42	ug/L	11/28/2021 1628
4,6-Dinitro-2-methylphenol	4.0	U	1	4.0	0.89	ug/L	11/28/2021 1628
2,4-Dinitrophenol	4.0	U	1	4.0	1.3	ug/L	11/28/2021 1628
2,4-Dinitrotoluene	1.6	U	1	1.6	0.36	ug/L	11/28/2021 1628
2,6-Dinitrotoluene	1.6	U	1	1.6	0.34	ug/L	11/28/2021 1628
Di-n-octylphthalate	4.0	U	1	4.0	0.48	ug/L	11/28/2021 1628
1,4-Dioxane	10	U	1	10	0.20	ug/L	11/28/2021 1628
bis(2-Ethylhexyl)phthalate	4.0	U	1	4.0	0.38	ug/L	11/28/2021 1628
Fluoranthene	0.16	U	1	0.16	0.040	ug/L	11/28/2021 1628
Fluorene	0.16	U	1	0.16	0.040	ug/L	11/28/2021 1628
Hexachlorobenzene	0.80	U	1	0.80	0.15	ug/L	11/28/2021 1628
Hexachlorobutadiene	0.80	U	1	0.80	0.17	ug/L	11/28/2021 1628

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: WQ22129-001
Batch: 22129
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 11/11/2021 1500

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Hexachlorocyclopentadiene	4.0	U	1	4.0	1.1	ug/L	11/28/2021 1628
Hexachloroethane	0.80	U	1	0.80	0.17	ug/L	11/28/2021 1628
Indeno(1,2,3-c,d)pyrene	0.16	U	1	0.16	0.040	ug/L	11/28/2021 1628
Isophorone	0.80	U	1	0.80	0.22	ug/L	11/28/2021 1628
2-Methylnaphthalene	0.16	U	1	0.16	0.040	ug/L	11/28/2021 1628
2-Methylphenol	0.80	U	1	0.80	0.21	ug/L	11/28/2021 1628
3+4-Methylphenol	1.6	U	1	1.6	0.46	ug/L	11/28/2021 1628
Naphthalene	0.16	U	1	0.16	0.040	ug/L	11/28/2021 1628
2-Nitroaniline	1.6	U	1	1.6	0.66	ug/L	11/28/2021 1628
3-Nitroaniline	1.6	U	1	1.6	0.15	ug/L	11/28/2021 1628
4-Nitroaniline	1.6	U	1	1.6	1.3	ug/L	11/28/2021 1628
Nitrobenzene	0.80	U	1	0.80	0.17	ug/L	11/28/2021 1628
2-Nitrophenol	1.6	U	1	1.6	0.44	ug/L	11/28/2021 1628
4-Nitrophenol	4.0	U	1	4.0	2.1	ug/L	11/28/2021 1628
N-Nitrosodi-n-propylamine	0.80	U	1	0.80	0.28	ug/L	11/28/2021 1628
N-Nitrosodiphenylamine (Diphenylamine)	0.80	U	1	0.80	0.50	ug/L	11/28/2021 1628
Pentachlorophenol	4.0	U	1	4.0	1.3	ug/L	11/28/2021 1628
Phenanthrene	0.16	U	1	0.16	0.040	ug/L	11/28/2021 1628
Phenol	0.80	U	1	0.80	0.19	ug/L	11/28/2021 1628
Pyrene	0.16	U	1	0.16	0.040	ug/L	11/28/2021 1628
1,2,4,5-Tetrachlorobenzene	0.80	U	1	0.80	0.25	ug/L	11/28/2021 1628
2,3,4,6-Tetrachlorophenol	0.80	U	1	0.80	0.55	ug/L	11/28/2021 1628
2,4,5-Trichlorophenol	0.80	U	1	0.80	0.19	ug/L	11/28/2021 1628
2,4,6-Trichlorophenol	0.80	U	1	0.80	0.22	ug/L	11/28/2021 1628

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		55	37-129
2-Fluorophenol		29	24-127
Nitrobenzene-d5		56	38-127
Phenol-d5		39	28-128
Terphenyl-d14		75	10-148
2,4,6-Tribromophenol		61	35-144

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: WQ22129-002
Batch: 22129
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 11/11/2021 1500

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acenaphthene	8.0	4.7		1	59	30-122	11/28/2021 1653
Acenaphthylene	8.0	4.8		1	60	30-130	11/28/2021 1653
Acetophenone	8.0	5.1		1	64	52-125	11/28/2021 1653
Anthracene	8.0	5.0		1	62	30-123	11/28/2021 1653
Atrazine	8.0	4.8		1	60	25-121	11/28/2021 1653
Benzaldehyde	8.0	2.8		1	35	20-115	11/28/2021 1653
Benzo(a)anthracene	8.0	5.2		1	65	40-125	11/28/2021 1653
Benzo(a)pyrene	8.0	4.9		1	62	40-128	11/28/2021 1653
Benzo(b)fluoranthene	8.0	5.0		1	62	30-130	11/28/2021 1653
Benzo(g,h,i)perylene	8.0	5.8		1	73	30-130	11/28/2021 1653
Benzo(k)fluoranthene	8.0	5.0		1	62	30-130	11/28/2021 1653
1,1'-Biphenyl	8.0	4.4		1	55	42-120	11/28/2021 1653
4-Bromophenyl phenyl ether	8.0	4.9		1	61	30-124	11/28/2021 1653
Butyl benzyl phthalate	8.0	5.5		1	68	54-135	11/28/2021 1653
Caprolactam	8.0	4.2		1	53	44-152	11/28/2021 1653
Carbazole	8.0	4.4		1	55	45-101	11/28/2021 1653
bis (2-Chloro-1-methylethyl) ether	8.0	1.7	N	1	21	42-124	11/28/2021 1653
4-Chloro-3-methyl phenol	8.0	3.8		1	47	30-123	11/28/2021 1653
4-Chloroaniline	8.0	1.9		1	24	12-157	11/28/2021 1653
bis(2-Chloroethoxy)methane	8.0	3.9		1	49	44-127	11/28/2021 1653
bis(2-Chloroethyl)ether	8.0	3.2	N	1	40	46-120	11/28/2021 1653
2-Chloronaphthalene	8.0	4.1		1	51	46-100	11/28/2021 1653
2-Chlorophenol	8.0	4.2		1	52	50-117	11/28/2021 1653
4-Chlorophenyl phenyl ether	8.0	4.6		1	58	30-121	11/28/2021 1653
Chrysene	8.0	5.1		1	64	30-130	11/28/2021 1653
Dibenzo(a,h)anthracene	8.0	5.3		1	66	30-130	11/28/2021 1653
Dibenzofuran	8.0	4.6		1	57	30-118	11/28/2021 1653
3,3'-Dichlorobenzidine	8.0	2.5		1	32	10-126	11/28/2021 1653
2,4-Dichlorophenol	8.0	3.7		1	47	30-121	11/28/2021 1653
Diethylphthalate	8.0	5.6		1	70	40-125	11/28/2021 1653
Dimethyl phthalate	8.0	4.9		1	61	40-127	11/28/2021 1653
2,4-Dimethylphenol	8.0	6.4		1	80	20-125	11/28/2021 1653
Di-n-butyl phthalate	8.0	5.3		1	67	40-127	11/28/2021 1653
4,6-Dinitro-2-methylphenol	8.0	5.0		1	62	56-128	11/28/2021 1653
2,4-Dinitrophenol	16	6.8		1	43	11-126	11/28/2021 1653
2,4-Dinitrotoluene	8.0	5.4		1	67	59-127	11/28/2021 1653
2,6-Dinitrotoluene	8.0	4.9		1	62	59-126	11/28/2021 1653
Di-n-octylphthalate	8.0	4.0		1	51	50-136	11/28/2021 1653
1,4-Dioxane	8.0	2.5		1	31	30-130	11/28/2021 1653
bis(2-Ethylhexyl)phthalate	8.0	5.0		1	62	56-128	11/28/2021 1653
Fluoranthene	8.0	5.0		1	62	40-128	11/28/2021 1653
Fluorene	8.0	4.9		1	61	30-124	11/28/2021 1653
Hexachlorobenzene	8.0	5.9		1	74	30-125	11/28/2021 1653
Hexachlorobutadiene	8.0	4.5		1	56	24-110	11/28/2021 1653

LOQ = Limit of Quantitation
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N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: WQ22129-002
Batch: 22129
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 11/11/2021 1500

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Hexachlorocyclopentadiene	40	25		1	63	16-96	11/28/2021 1653
Hexachloroethane	8.0	4.2		1	53	31-110	11/28/2021 1653
Indeno(1,2,3-c,d)pyrene	8.0	5.9		1	73	30-130	11/28/2021 1653
Isophorone	8.0	4.2	N	1	53	57-123	11/28/2021 1653
2-Methylnaphthalene	8.0	4.7		1	59	40-132	11/28/2021 1653
2-Methylphenol	8.0	3.0	N	1	38	56-119	11/28/2021 1653
3+4-Methylphenol	8.0	4.1	N	1	51	53-119	11/28/2021 1653
Naphthalene	8.0	4.6		1	57	30-130	11/28/2021 1653
2-Nitroaniline	8.0	4.1	N	1	51	60-124	11/28/2021 1653
3-Nitroaniline	8.0	2.6	N	1	32	43-123	11/28/2021 1653
4-Nitroaniline	8.0	3.9		1	48	30-135	11/28/2021 1653
Nitrobenzene	8.0	4.4		1	55	51-122	11/28/2021 1653
2-Nitrophenol	8.0	4.6		1	57	51-118	11/28/2021 1653
4-Nitrophenol	16	3.6	N	1	22	53-130	11/28/2021 1653
N-Nitrosodi-n-propylamine	8.0	4.7		1	59	54-127	11/28/2021 1653
N-Nitrosodiphenylamine (Diphenylamine)	8.0	4.5		1	56	30-123	11/28/2021 1653
Pentachlorophenol	16	4.8	N	1	30	42-131	11/28/2021 1653
Phenanthrene	8.0	4.8		1	60	40-123	11/28/2021 1653
Phenol	8.0	3.2	N	1	41	49-117	11/28/2021 1653
Pyrene	8.0	4.8		1	60	40-126	11/28/2021 1653
1,2,4,5-Tetrachlorobenzene	8.0	4.4		1	55	30-130	11/28/2021 1653
2,3,4,6-Tetrachlorophenol	8.0	3.4		1	42	30-130	11/28/2021 1653
2,4,5-Trichlorophenol	8.0	3.8		1	47	30-123	11/28/2021 1653
2,4,6-Trichlorophenol	8.0	3.2		1	40	30-125	11/28/2021 1653

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		60	37-129
2-Fluorophenol		41	24-127
Nitrobenzene-d5		61	38-127
Phenol-d5		49	28-128
Terphenyl-d14		68	10-148
2,4,6-Tribromophenol		52	35-144

LOQ = Limit of Quantitation
DL = Detection Limit
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* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MB

Sample ID: WQ22256-001
Batch: 22256
Analytical Method: 6020B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 11/17/2021 0100

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aluminum	40	U	1	40	10	ug/L	11/17/2021 1722
Antimony	2.0	U	1	2.0	0.50	ug/L	11/17/2021 1722
Arsenic	2.0	U	1	2.0	1.3	ug/L	11/17/2021 1722
Barium	5.0	U	1	5.0	1.3	ug/L	11/17/2021 1722
Beryllium	0.40	U	1	0.40	0.15	ug/L	11/17/2021 1722
Cadmium	0.50	U	1	0.50	0.13	ug/L	11/17/2021 1722
Calcium	400	U	1	400	100	ug/L	11/17/2021 1722
Chromium	5.0	U	1	5.0	1.3	ug/L	11/17/2021 1722
Cobalt	5.0	U	1	5.0	1.3	ug/L	11/17/2021 1722
Copper	5.0	U	1	5.0	1.3	ug/L	11/17/2021 1722
Iron	50	U	1	50	13	ug/L	11/17/2021 1722
Lead	1.0	U	1	1.0	0.25	ug/L	11/17/2021 1722
Magnesium	400	U	1	400	50	ug/L	11/17/2021 1722
Manganese	5.0	U	1	5.0	1.3	ug/L	11/17/2021 1722
Nickel	5.0	U	1	5.0	1.3	ug/L	11/17/2021 1722
Potassium	400	U	1	400	100	ug/L	11/17/2021 1722
Selenium	5.0	U	1	5.0	1.3	ug/L	11/17/2021 1722
Silver	1.0	U	1	1.0	0.25	ug/L	11/17/2021 1722
Sodium	400	U	1	400	150	ug/L	11/17/2021 1722
Thallium	0.50	U	1	0.50	0.15	ug/L	11/17/2021 1722
Vanadium	5.0	U	1	5.0	2.5	ug/L	11/17/2021 1722
Zinc	10	U	1	10	2.5	ug/L	11/17/2021 1722

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - LCS

Sample ID: WQ22256-002
Batch: 22256
Analytical Method: 6020B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 11/17/2021 0100

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Aluminum	100	110		1	106	80-120	11/17/2021 1724
Antimony	100	98		1	98	80-120	11/17/2021 1724
Arsenic	100	100		1	103	80-120	11/17/2021 1724
Barium	100	100		1	101	80-120	11/17/2021 1724
Beryllium	100	100		1	101	80-120	11/17/2021 1724
Cadmium	100	100		1	100	80-120	11/17/2021 1724
Calcium	1000	850		1	85	80-120	11/17/2021 1724
Chromium	100	100		1	103	80-120	11/17/2021 1724
Cobalt	100	100		1	101	80-120	11/17/2021 1724
Copper	100	110		1	106	80-120	11/17/2021 1724
Iron	1000	990		1	99	80-120	11/17/2021 1724
Lead	100	100		1	100	80-120	11/17/2021 1724
Magnesium	1000	1000		1	101	80-120	11/17/2021 1724
Manganese	100	100		1	103	80-120	11/17/2021 1724
Nickel	100	110		1	105	80-120	11/17/2021 1724
Potassium	1000	1000		1	101	80-120	11/17/2021 1724
Selenium	100	100		1	102	80-120	11/17/2021 1724
Silver	100	94		1	94	80-120	11/17/2021 1724
Sodium	1000	1000		1	102	80-120	11/17/2021 1724
Thallium	100	96		1	96	80-120	11/17/2021 1724
Vanadium	100	100		1	101	80-120	11/17/2021 1724
Zinc	100	100		1	105	80-120	11/17/2021 1724

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
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* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - MB

Sample ID: WQ22576-001
Batch: 22576
Analytical Method: 7470A

Matrix: Aqueous
Prep Method:
Prep Date: 11/16/2021 0704

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Mercury	0.00020	U	1	0.00020	0.000091	mg/L	11/16/2021 1213

LOQ = Limit of Quantitation
DL = Detection Limit

U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

ICP-MS - LCS

Sample ID: WQ22576-002
Batch: 22576
Analytical Method: 7470A

Matrix: Aqueous
Prep Method:
Prep Date: 11/16/2021 0704

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Mercury	0.0020	0.0019		1	94	80-120	11/16/2021 1215

LOQ = Limit of Quantitation
DL = Detection Limit

U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Chain of Custody
and
Miscellaneous Documents

CHAIN OF CUSTODY RECORD

Laboratory: Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.) 106 Vantage Point Drive, West Columbia, SC 29172 Project Manager: Cathy Dowie (803) 227-3100

Former Internet/Lynchburg Foundry Site
1661 Concord Trail
Lynchburg, VA
Phase II ESA
B12188B-10RM

1Z2373010 19793 4325

Sample ID	Date: 2021	Time	Box 12 Matrix	Number of Bottles	VOCs - TAL List 8260D/5030B - extra low level (XLL)	VOCs - TAL List 8260D/5030B - extra low level (XLL) - unpreserved. Use if effervescence noted.	8270E/8320C - TAL Semivolatiles including PAHs (See attached TAL analyte list)	8020B (3005A)/7470A - Total Metals (TAL)	8012B/8020A - Cyanide	8020B/7470A/3005A - Dissolved Metals (TAL) - use if sample is turbid	Metals pH	Cyanide pH	
Box 4 - Sample Type					C	C	C	C	C	C			
Box 5 - Filtered/Unfiltered					U	U	U	U	U	U			
Required pH at Sample					<2			<2	<2	<2			
Box 2 - Preservative					A	H	H	A	B	A			
Box 3 - Sample Container Type					3-40 ml VOA	3-40 ml VOA	2-250 ml AG	1-250 ml P	1-250 ml P	1-250 ml P			
EQB (1 & 2)	11-8	0900	GW	7	x		x	x	x		42	712	Composite Equipment Blank on BF Pumps 1 & 2

DESIRED NOTES:
1. Level 3 - Results Only with BF EDD (electronic report only).
2. Report DL/DL and estimated results.
3. VOLFP Accreditation requires.
4. See attached target analytes list.
5. Report results in ug/L.
6. EPA/Brownfield Project

WK10133

Client Specific Instructions:

Received by Lab in Good Condition ✓ Yes ___ No Custody Seal Intact ✓ Yes ___ No Temperature Acceptable ✓ Yes ___ No Received within ✓ Yes ___ No

Sample Name (Print): Ian McGregor	Date: 11-8-21	#1 Relinquished by (Signature): [signature]	Date: 11-8-21	#2 Relinquished by (Signature):	Date:
Sample Signature: [signature]	Time: 0800	Company Name: DAA	Time: 1700	Company Name:	Time:
Sample Name (Print):	Date:	#1 Received by (Signature): Kayren [signature]	Date: 11-9-21	#2 Received by (Signature):	Date:
Sample Signature:	Time:	Company Name:	Time: 1000	Company Name:	Time:

Sample Pumps Turn Required

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

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PaceAnalytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: Draper Cooler Inspected by/date: JRG2 / 11/10/2021 Lot #: WK10133

Means of receipt: ☐ Pace ☐ Client ☑ UPS ☐ FedEx ☐ Other: ____

☑ Yes	☐ No		1. Were custody seals present on the cooler?
☑ Yes	☐ No	☐ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: 21-852 Chlorine Strip ID: 21-454 Tested by: KDRW

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA

1.4 / 1.4 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? ____
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☑ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☑ Yes	☐ No	☐ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☑ Yes	☐ No	☐ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☑ Yes	☐ No	☐ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA ____ were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA ____ were received with bubbles >6 mm in diameter.

Samples(s) NA ____ were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: JRG2 Date: 11/10/2021

Comments: