NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C
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November 3, 2020

Mr. John C. Brussel, P.E.
Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street, Suite 300
Syracuse, NY 13202

Re: Guard Station Relocation Focused Soil Investigation Summary Report - Approval
National Grid, North Albany Service Center
NM - North Albany, Site No. 401040

Dear Mr. Brussel:

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have reviewed the Guard Station Relocation Focused Soil Investigation Summary Report pertaining to the above referenced site provided to the Department on October 23, 2020. The Department and NYSDOH find the report to be acceptable. If you have any questions, please contact me at 518-402-2029 or email: greta.white@dec.ny.gov.

Sincerely,

Greta White, P.G.
Project Manager
Remedial Action Bureau C
Division of Environmental Remediation

EC: D. Eaton, NYSDEC
J. Brown, NYSDEC
A. Perretta, NYSDOH
J. Deming, NYSDOH
G. Cummins, NG
M. Root, NG
S. Plansker, NG
A. Blazskow, Nelson
M. Hysell, Arcadis

NEW YORK STATE OF OPPORTUNITY. Department of Health

ANDREW M. CUOMO
Governor

HOWARD A. ZUCKER, M.D., J.D.
Commissioner

LISA J. PINO, M.A., J.D.
Executive Deputy Commissioner

November 3, 2020

Ms. Greta White, P.G.
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233

Re: Guard Station Summary Report
North Albany MGP Site
Site #401040
Albany, Albany County

Dear Ms. White:

I have reviewed the October 2020 Guard Station Summary report for the above referenced site. I have no public health related comments to offer and find the report acceptable. If you have any questions please contact me at (518) 402-7860.

Sincerely,

Anthony Perretta
Public Health Specialist 2
Bureau of Environmental Exposure Investigation

ec: J. Deming / e-File
R. Swider – NYSDOH CAEHP
R. Groves – ACHD
J. Brown / D. Eaton – NYSDEC Central Office
A. Fleck – NYSDEC Region 4

Ms. Greta White, P.G.
Assistant Geologist
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7017

Mr. Douglas MacNeal, P.E.
Project Manager
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625 Broadway
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ENVIRONMENT

Date:
October 23, 2020

Contact:
John C. Brussel, P.E.

Phone:
315.671.9441

Email:
John.Brussel@arcadis.com

Our ref:
30058019 #10

Subject:
National Grid
North Albany Service Center
Guard Station Relocation
Focused Soil Investigation Summary Report

Dear Ms. White and Mr. MacNeal:

On behalf of National Grid, this letter summarizes the work performed and findings of a focused soil investigation performed within the footprint of the proposed new guard station at the National Grid North Albany Service Center (see Figure 1 for site location) in September 2020. The proposed new guard station will be constructed within part the former manufactured gas plant (MGP) site (see Figure 2). The new guard house will be located on the left side when entering the site, ahead of a new security gate.

The focused soil investigation characterized soil within the anticipated excavation limits for the proposed new guard house and related features, including a new security gate pedestal/foundation and new subsurface utilities that will connect to the guard house. The investigation was conducted by Arcadis of New York, Inc. (Arcadis) and subcontractors during the week of September 21, 2020. Fieldwork and laboratory analyses were performed in accordance with the work plan contained in a September 11, 2020 letter to the New York State Department of Environmental Conservation (NYSDEC), which was conditionally approved by the NYSDEC on September 16, 2020.

The investigation provided data to assess environmental requirements, including material handling, air monitoring, worker training, and other tasks, for National Grid's contractors that will be constructing the new guard station. As summarized

herein, the soil analytical results are all less than the NYSDEC commercial soil cleanup objectives (SCOs) presented in Title 6 of the New York Codes, Rules and Regulations (6 NYCRR) Part 375-6.8b, except for slight exceedances of two compounds.

Relevant background information, including an overview of the proposed guard station relocation, is presented below and followed by a summary of the focused soil investigation and proposed environmental requirements for the contractors that will construct the guard station.

I. BACKGROUND INFORMATION

Design drawings prepared by Nelson Associates Architectural Engineering show the construction of a new approximately 30-foot long by 20-foot wide slab-on-grade guard house on the west side of the driveway entrance from Broadway and a new 33-foot long aluminum sliding gate and 14-foot long traffic arm extending across the driveway, opposite the guard house (the layout is shown on Drawing C101 in Attachment 1). Excavations are anticipated for the following features[1]:

- *Guard Station Foundation*: The design drawings show a foundation system consisting of a continuous 2-foot wide, steel-reinforced concrete spread footer extending beneath the perimeter of the new guard house with an 8-inch wide continuous pier supporting the guard house walls. The base of the footing is shown to be on undisturbed soil at a depth of 5 feet below the top of the building floor slab, which is slightly above the existing grade. Excavation at the footing locations is anticipated to extend approximately 5 feet below ground surface (bgs) and be roughly 4 feet wide to allow for construction of the 2-foot wide concrete footer, resulting in the generation of approximately 75 cubic yards (CY) of excavation spoils. The drawings show the new 4-inch thick reinforced concrete floor slab on a 6-inch thick compacted gravel base. The excavation for this gravel base will add approximately 10 CY of excavation spoils.
- *Utility Trenches*: The design drawings show a utility corridor extending approximately from the northeast corner of the guard house toward the northwest corner of Building 2 for the following:
    - *Storm Sewer Pipe*: Approximately 105 lineal feet (LF) of new 3-inch diameter storm sewer pipe will convey roof drainage to an existing catch basin off the northwest corner of Building 2. The invert of the new storm sewer pipe at the catch basin is shown to be 2.1 feet bgs. A utility detail shows a minimum of 4 inches of bedding material beneath the pipe. Based on this information, the average excavation depth may be approximately 2.5 feet bgs. Assuming the pipe trench is 2.5 feet wide, the trench excavation will generate approximately 24 CY of spoils.
    - *Electric Conduit*: Approximately 170 LF of new electric conduit will bring electrical service from Building 2 to the new guard station. The trench for the conduit, like that for the storm sewer pipe, is anticipated to be 2.5 feet wide and 2.5 feet deep, generating approximately 40 CY of excavation spoils.
    - *Water Pipe*: Approximately 190 LF of new 1¼-inch diameter pipe will supply water from Building 2 to the new guard station. The minimum burial depth for the new water pipe is 5 feet bgs. Assuming the trench for the water pipe is 2.5 feet wide and 5.5 feet deep (to allow for at least 4-inches of bedding material), the pipe trench excavation will generate approximately 100 CY of spoils.

[1] Excavation dimensions and volumes identified herein are subject to change based on the contractors' means and methods.

The design drawings also show: (1) new ¾-inch diameter gas pipe extending approximately 55 LF from the northwest corner of the new guard station to an existing 2-inch diameter gas main that extends along the western property boundary; and (2) approximately 10 LF of sanitary sewer tying into an existing sanitary sewer pipe in the immediate area. The top of the gas pipe is required to be beneath at least 3.5 feet of cover and the sanitary sewer is anticipated to be beneath a similar depth of cover. Both utilities will require trenches that are approximately 2.5 feet wide and 4 feet deep (for total gas pipe and sanitary sewer pipe excavation spoils of 24 CY).

- *Sliding Gate and Traffic Arm Excavations*: The design drawing notes indicate that the foundation for the new 33-foot long sliding gate will be 20-inches long by 30-inches wide and 54-inches high with a 6-inch reveal above grade and placed on a 6-inch thick bed of compacted subbase. The excavation for this foundation is anticipated to be approximately 44-inches long by 54-inches wide and 54-inches deep, resulting in approximately 3 CY of spoils. The design drawings indicate that the foundation for the new 14-foot long traffic arm will be 23-inches square and 36-inches high with a 4-inch reveal above grade and placed on a 6-inch thick bed of compacted stone. The excavation for this smaller foundation is anticipated to be approximately 47-inches square and 38-inches deep, resulting in approximately 2 CY of spoils.

Based on the estimates above, the guard station construction is anticipated to generate approximately 278 CY of excavation spoils that will need to be properly managed. The final volume will depend on contractor means and methods. The typical utility trench detail shows trenches in paved areas being backfilled with pipe bedding material (crushed stone) and select fill. The trench detail allows excavated soil to be reused as backfill at least 12-inches above subsurface utilities in grass-only areas. Since most or all of the trenches are within paved areas, most or all of the excavated material will require offsite transportation and disposal.

II. FOCUSED INVESTIGATION SUMMARY

Work performed as part of the focused investigation fieldwork is described below, followed by a summary of the investigation findings.

A. Focused Investigation Fieldwork

Subsurface utilities in and around the work area were cleared by: (1) utility mark-outs by Dig-Safely New York; and (2) a geophysical survey conducted by GPRS, Inc. on September 21, 2020. Soil boring and sampling was conducted by Parratt-Wolff, Inc. (Parratt-Wolff) via use of vacuum excavation and hand auger techniques. Parratt-Wolff completed soil borings at eight locations within the proposed guard station construction limits (locations SB-201 through SB-208 as shown on Figure 3). The sampling locations were marked in the field by C.T. Male Associates using survey coordinates obtained from guard station relocation Design Drawing C101, with sampling locations from the September 11, 2020 work plan overlaid on the drawing. The soil boring locations and depths are summarized in the table below.

Soil Boring ID	Proposed Structure	Depth (feet bgs)
SB-201	Natural gas pipe alignment	5
SB-202 & SB-203	Guard station spread footer foundation	5
SB-204	Sliding gate pedestal/foundation	5
SB-205 & SB-206	Storm sewer alignment	4

Soil Boring ID	Proposed Structure	Depth (feet bgs)
SB-207 & SB-208	Water main alignment	6

Soil samples were collected approximately every 1-foot from each boring for visual characterization (soil classification, color, texture, moisture content, potential impacts) and photoionization detector (PID) headspace screening by Arcadis. Soil boring logs are included in Attachment 2. As indicated on the logs, the top 6-inches of material encountered at each sampling location consisted of asphalt and crusher run stone. Historic fill material, consisting primarily of fine to coarse sand with cobbles, coarse gravel, glass/ brick debris, and/or clay, was encountered below the crusher run stone. The soil recovered from the borings did not exhibit any non-aqueous phase liquid (NAPL), staining, sheens, or odors. Groundwater was not encountered in any of the soil borings. Based on these observations and in accordance with the work plan, soil samples from the first soil interval below both the asphalt pavement and crusher run stone at each location were submitted for laboratory analysis polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), inorganic constituents, total petroleum hydrocarbons (TPH) diesel range organics (DRO), and TPH gasoline range organics (GRO).

The soil borings were backfilled to within a few inches of the ground surface using soil removed from the borings via vacuum excavation/hand auger. The pavement at each sampling location was restored with concrete to match surrounding grade.

Community air monitoring was performed by Arcadis during ground-intrusive work (vacuum excavation, sampling, boring backfilling) in accordance with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan (CAMP) included in Appendix 1A to the NYSDEC's Program Policy Document titled, DER-10 / Technical Guidance for Site Investigation and Remediation, dated May 3, 2010 (DER-10). This involved monitoring for VOC vapors and particulates at one upwind and one downwind monitoring station. The monitoring equipment calculated 15-minute running average concentrations. No exceedances of the action levels specified in the CAMP were identified by the monitoring.

B. Focused Investigation Findings

Findings from the geophysical survey performed in and around the proposed work area in September 2020 are presented in Attachment 3. Note that certain additional utilities were identified in the work area as part of earlier geophysical survey efforts, some of which may or may not remain. Findings from previous geophysical surveys that included the guard station relocation work area (from surveys conducted as part of previous investigations in the northern portion of the site) are also presented in Attachment 3. Additional subsurface utilities may be present in the area and actual locations of underground utilities may vary from those shown on the mapping in Attachment 3.

The laboratory analytical data reports for the soil samples collected as part of the September 2020 Focused Investigation are presented in Attachment 4. The laboratory analytical results have not been validated as they are intended for: (1) screening purposes to evaluate potential environmental requirements for the proposed construction work; and (2) use in waste profiling. The electronic data deliverables (EDDs) will be separately e-mailed to the NYSDEC for upload to the NYSDEC's EQuIS database. The soil analytical results are summarized below.

The soil analytical results are presented in Table 1, conservatively compared to the commercial use SCOs presented in 6 NYCRR Part 375-6.8(b). As indicated in Table 1, no PCBs, VOCs, SVOCs, or inorganic constituents were identified at concentrations exceeding the NYSDEC commercial SCOs with the minor exceptions identified below:

- *SB-201 and SB-203:* Benzo(a)pyrene was identified at concentrations of 1.4 and 1.1 ppm, respectively, which slightly exceed the 1 ppm commercial SCO.
- *SB-208:* Barium was identified at a concentration of 487 ppm, which slightly exceeds the 400 ppm commercial SCO.

No commercial SCOs for TPH DRO and TPH GRO are presented in 6 NYCRR Part 375. These constituents are required by CleanEarth for profiling wastes for thermal treatment at their facility in Fort Edward, New York.

Based on the data as summarized above, soil within the proposed guard station relocation construction limits appears to be relatively unaffected by the former MGP.

III. PROPOSED ENVIRONMENTAL REQUIREMENTS FOR CONSTRUCTION

The proposed excavation for the guard station relocation will be accomplished using standard excavators, backhoes, and or vacuum truck. It will be the contractor's responsibility to protect active utilities that are to remain in-service and properly decommission utilities encountered that are to be abandoned. The contractor will be required to provide sidewall support (e.g., trench boxes, sloping, benching, etc.) for excavations extending below 5 feet bgs or within shallower soils that are unstable, as required per Occupational Safety and Health Administration (OSHA) requirements outlined in 29 Code of Federal Regulations (CFR) 1926, Subpart P. The groundwater table is not anticipated to be encountered during excavation; however, runoff from precipitation may collect within the excavation. The following environmental requirements have been established for the soil and water handling aspects of the proposed guard station construction work:

1. *Health & Safety:* A site-specific Health and Safety Plan (HASP) will be developed to fulfill the requirements of 29 CFR 1910 and 29 CFR 1926 and cover contractor and subcontractor personnel who will be performing the intrusive work. Contractor staff performing intrusive work activities (excavation, soil handling) will be required to have OSHA 40-hour Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) training, including 8-hour annual refresher course updates, and medical clearance in accordance with 29 CFR 1910.120. The contractor will use appropriate personal protective equipment as required by the HASP. Orange construction barrels, fence, and/or caution tape attached to temporary/moveable posts or drums will be used to demarcate the work area and maintain compliance with a contractor and/or National Grid site-specific traffic safety plan. Signage will also be installed to prevent unauthorized/untrained personnel from entering the work area.
2. *Dust/Vapor/Emissions Controls & Community Air Monitoring:* The contractor will be required to implement dust, vapor, and odor control measures, as needed, based on air monitoring and visual assessment (by Arcadis or National Grid safety personnel) during intrusive and material handling activities to maintain particulate and volatile organic vapor levels below the action limits identified in the CAMP contained in Appendix 1A to of the DER-10. Air monitoring will be performed upwind and downwind in accordance with the protocols presented in the CAMP. The 15-minute average air monitoring readings will be recorded by data loggers and will be available to the NYSDEC upon

request. Instantaneous readings used to make decisions will also be documented and made available.

3. *Excavation/Material Handling:* The pavement within the proposed excavation area will be removed and transported for offsite recycling. The underlying crusher run stone will be stockpiled for reuse if it can be segregated from other materials. The fill material will be excavated to target depths and transferred to a lined material staging area or loaded directly into roll-off waste containers for further waste characterization sampling, as needed. The material staging area will consist of polyethylene sheeting (i.e., single sheet with a minimum 30 mil thickness) placed over the asphalt pavement or gravel surface and extending over sidewalls formed using hay bales, jersey barriers, crushed stone, or similar. The material staging area will be constructed at a location selected by National Grid that does not interfere with ongoing site operations. Materials in the staging area will be covered at the end of each workday and more often during periods of precipitation, as appropriate, to minimize contact with precipitation. Each roll-off will be lined with one layer of polyethylene sheeting (minimum 10-mil thickness). In addition, the roll-offs will be covered with a low-permeability tarp (mesh tarps are prohibited) at the end of the workday, prior to departing the site, and during transport. Similarly, all dump truck beds or dump trailers will be covered with a low-permeability tarp (mesh tarps are prohibited) before departing the site and remain covered during transport. All covers and roll-off/ dump truck/trailer gates are to be water-tight and securely closed to prevent leakage or release of wastes during transport. The waste soil/debris generated by the excavation will be shipped from the site under waste manifest (non-hazardous or hazardous waste, depending on characterization sampling results). The waste manifests will be signed by National Grid or Arcadis (as an agent for National Grid).

4. *Water Management:* The proposed excavation work will be performed during dry conditions, if possible. Diversion berms will be used (if needed) to direct storm water runoff around the excavation area, to minimize water handling. Runoff that collects in the excavation or material staging area (if any) will be removed by pump and/or a vacuum truck, as needed, and transferred to an onsite storage tank (e.g., frac tank). Water generated by gravity dewatering of the excavated soils and equipment decontamination will be transferred into the storage tank or vacuum truck. The wastewater generated by the project will be characterized and transported to an industrial wastewater treatment facility for offsite treatment/discharge, as appropriate based on the characterization sampling results.

5. *Erosion and Sedimentation Control Measures:* The ground surface in the proposed work area slopes gently to the south/southeast (toward storm water catch basins near the northwest corner of Building 2). As indicated above, diversion berms will be used, as needed, to direct runoff around the excavation area. Based on existing topography and the proposed excavation shape/depth, there should be no storm water “run-off” out of the excavation area. Although erosion and sedimentation control measures such as silt fencing, straw bales, or waddles are not anticipated to be needed, waddles (e.g., Siltsoxx™) will be available for use downslope from the work area should conditions change. In addition, excavated materials will be stockpiled in a lined material staging area or roll-off waste containers that will be covered to minimize contact with precipitation. The lined sidewalls of the material staging area and the steel sides of the roll-off waste containers will keep storm water runoff out.

6. *Imported Fill:* The proposed excavations will be backfilled using imported crusher run stone and select fill. If the imported fill is gravel, rock or stone, consisting of virgin material from a permitted mine or quarry, with less than 10% (by weight) passing through a size 80 sieve, the fill is anticipated to

meet the NYSDEC's sampling exemption outlined in Section 5.4(e)(5.)(i.) of DER-10. If run-of-bank sand and gravel or topsoil are to be used as backfill, the materials will be sampled in accordance with the requirements outlined in Section 5.4(e) of DER-10 (i.e., one discrete grab sample submitted for laboratory analysis of VOCs and one composite sample submitted for laboratory analysis for PCBs, pesticides, SVOCs [including 1,4-dioxane], inorganic constituents, and per- and polyfluoroalkyl substances [PFAS] for each material type and source). The constituent list shall be consistent with that presented in Appendix 5 of DER-10 and Appendix G of the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs", dated October 2020 [NYSDEC PFAS Guidance]. The laboratory analytical results for the proposed backfill must meet the SCOs for commercial or industrial use as presented in DER-10 (Appendix 5) and the NYSDEC PFAS Guidance in order for the soil to be imported and used as backfill at the site.

7. *Demarcation:* Aa demarcation layer (non-woven geotextile) will be installed to line the excavation bottom and sidewalls. The demarcation will designate the interface of the imported clean fill and surrounding soil that may have residual impacts. The demarcation layer will be placed in the excavation upon reaching the excavation limits. It will also provide a physical barrier to remaining soil for workers who may need to enter the excavation to install new foundations and subsurface utilities (water, storm sewer, sanitary sewer, underground electric, natural gas) or compact soil around these structures/utilities. To the extent possible, the work will be performed without manned entry into the excavation.

8. *Decontamination:* The contractor will be required to decontaminate equipment that contacts potentially-impacted soil. The equipment will be decontaminated by wiping and/or brushing off adhered soil/debris over the roll-off waste container or material staging area. The limited wash water anticipated to be generated by equipment decontamination will be absorbed by the soil or collected in a container for offsite disposal.

A full-time onsite representative from Arcadis will observe and document the soil management work and perform community air monitoring. Arcadis will prepare a report that summarizes the work and community air monitoring results. This report will be submitted to the NYSDEC within approximately one month following completion of the work activities.

IV. ANTICIPATED SCHEDULE

National Grid held a virtual pre-bid meeting with prospective contractors on October 6, 2020. National Grid anticipates a construction contract being awarded in November 2020 and construction work starting in November or December 2020. The overall construction is anticipated to take three or four months to complete. Excavation for the new guard house and related features will be completed within a portion of that timeframe.

A pre-construction meeting will be scheduled once the construction contract is awarded. We will let you know when the pre-construction meeting is scheduled and will send the NYSDEC a project schedule once it is available from the contractor. The NYSDEC is welcome to attend the pre-construction meeting and visit the site during construction. Arcadis will arrange to meet you onsite. Please note that COVID-specific safety requirements (body temperature check, face coverings, social distancing, etc.) will be required for any site visits in addition to the use of standard personal protective equipment (hard hat, safety glasses, reflective vest, and steel-toe boots).

We trust that the environmental requirements proposed above are acceptable to the NYSDEC. Please do not hesitate to contact Garry Cummins (National Grid Site Investigation and Remediation Project Manager at 315.440.5825) or the undersigned at 315.671.9441 if you have any questions or need additional information.

Sincerely,

Arcadis of New York, Inc.

John C. Brussel

John C. Brussel, P.E.
Principal Engineer/Certified Project Manager

Copies:
Andrew Blaszkow, Nelson Associates Architectural Engineering (via e-mail)
Gerald Cummins, National Grid (via e-mail)
Matthew Root, National Grid (via e-mail)
Steven Plansker, National Grid (via e-mail)
Kenneth Keenahan, National Grid (via e-mail)
Matthew S. Hysell, P.E., Arcadis of New York, Inc. (via e-mail)

Enclosures:

Table

1 Soil Analytical Results

Figures

1 Site Location Map
2 Site Layout
3 Proposed Guard Station Relocation and Sampling Locations

Attachments

1 Guard Station Relocation Design Drawing
2 Focused Investigation Soil Boring Logs
3 Geophysical Survey Results
4 Laboratory Analytical Data Reports

TABLE

Table 1
Soil Analytical Results (ppm)

Guard Station Relocation Focused Soil Investigation
National Grid
North Albany Former Manufactured Gas Plant Site
Albany, New York

Location ID: Sample Depth (Inches): Date Collected:	NYSDEC Part 375 Restricted Use Commercial SCOs	SB-201 10 09/24/20	SB-203 10 09/24/20	SB-204 10 09/23/20	SB-205 8 09/24/20	SB-208 10 09/23/20
Detected PCBs						
None Detected	- -	<0.26	<0.23	<0.26	<0.43 [<0.24]	<0.26
Detected VOCs						
Styrene	- -	0.0017 J	<0.0049	<0.0065	<0.0046 [<0.0049]	<0.015
Detected SVOCs						
Acenaphthylene	500	0.83 J	0.84 J	<19	<3.6 [<3.8]	<3.8
Acetophenone	- -	0.36 J	<0.94	<19	<3.6 [<3.8]	<3.8
Benzo(a)anthracene	5.6	1.3 F1F2	1.1	<19	<3.6 [<3.8]	0.67 J
Benzo(a)pyrene	1	1.4 F1F2	1.1	<19	<3.6 [<3.8]	<3.8
Benzo(b)fluoranthene	5.6	2.1 F1F2	1.8	<19	<3.6 [<3.8]	0.72 J
Benzo(g,h,i)perylene	500	1.5	1.0	<19	<3.6 [<3.8]	<3.8
Benzo(k)fluoranthene	56	1.0	0.71 J	<19	<3.6 [<3.8]	<3.8
Chrysene	56	1.6 F1F2	1.3	<19	<3.6 [<3.8]	<3.8
Dibenz(a,h)anthracene	0.56	0.35 J	0.23 J	<19	<3.6 [<3.8]	<3.8
Fluoranthene	500	0.88 JF1F2	1.1	<19	<3.6 [<3.8]	0.83 J
Indeno(1,2,3-cd)pyrene	5.6	1.2	0.79 J	<19	<3.6 [<3.8]	<3.8
Phenanthrene	500	0.19 J	0.41 J	<19	<3.6 [<3.8]	0.93 J
Pyrene	500	1.6 F1	1.5	<19	<3.6 [<3.8]	1.2 J
Detected Inorganics						
Aluminum	- -	13,200	7,960	10,000	12,300 [13,100]	8,300
Arsenic	16	8.80	6.10	7.30	6.50 [6.80]	8.80
Barium	400	110 *F1	88.1 *	72.1 *	69.9 * [74.7 *]	487 *
Beryllium	590	0.530	0.490	0.500	0.600 [0.630]	0.650
Cadmium	9.3	0.660	0.0780 J	0.0770 J	0.240 [0.250]	0.200 J
Calcium	- -	2,560 BF1	5,350 B	9,090	19,700 B [19,200 B]	3,250
Chromium	- -	19.8	14.2	14.3	15.9 [18.0]	12.9
Cobalt	- -	6.20	6.90	8.10	9.00 [8.70]	7.70
Copper	270	42.9	49.2	33.9	24.8 [27.8]	30.5
Cyanide	27	3.20 F1	1.00	<1.10	<1.00 [<1.10]	<0.960
Iron	- -	28,200	19,100	20,800	21,500 [23,000]	18,600
Lead	1,000	694	189	163	34.3 [53.5]	300
Magnesium	- -	3,670 F1	3,010	3,750	10,300 [6,530]	2,320
Manganese	10,000	321 BF2	246 B	383 B	541 B [459 B]	202 B
Mercury	- -	0.200	0.490	0.620	0.160 [0.110]	0.190
Nickel	310	18.6	16.9	19.4	21.5 [23.0]	23.8
Potassium	- -	2,660 F1	1,630	1,780	2,260 [2,420]	1,240
Selenium	1,500	<4.60	0.580 J	0.600 J	<4.50 [<4.60]	<4.60
Sodium	- -	873	530	677	678 [676]	2,290
Vanadium	- -	27.9 F1	21.4	20.7	24.6 [27.8]	19.3
Zinc	10,000	122 F1	65.0	81.2	157 [165]	69.8
Detected Miscellaneous						
TPH DRO	- -	450	200	40	<170 [66 J]	70
TPH GRO	- -	0.74 J	0.84 J	1.3	<2.3 [<2.4]	2.7

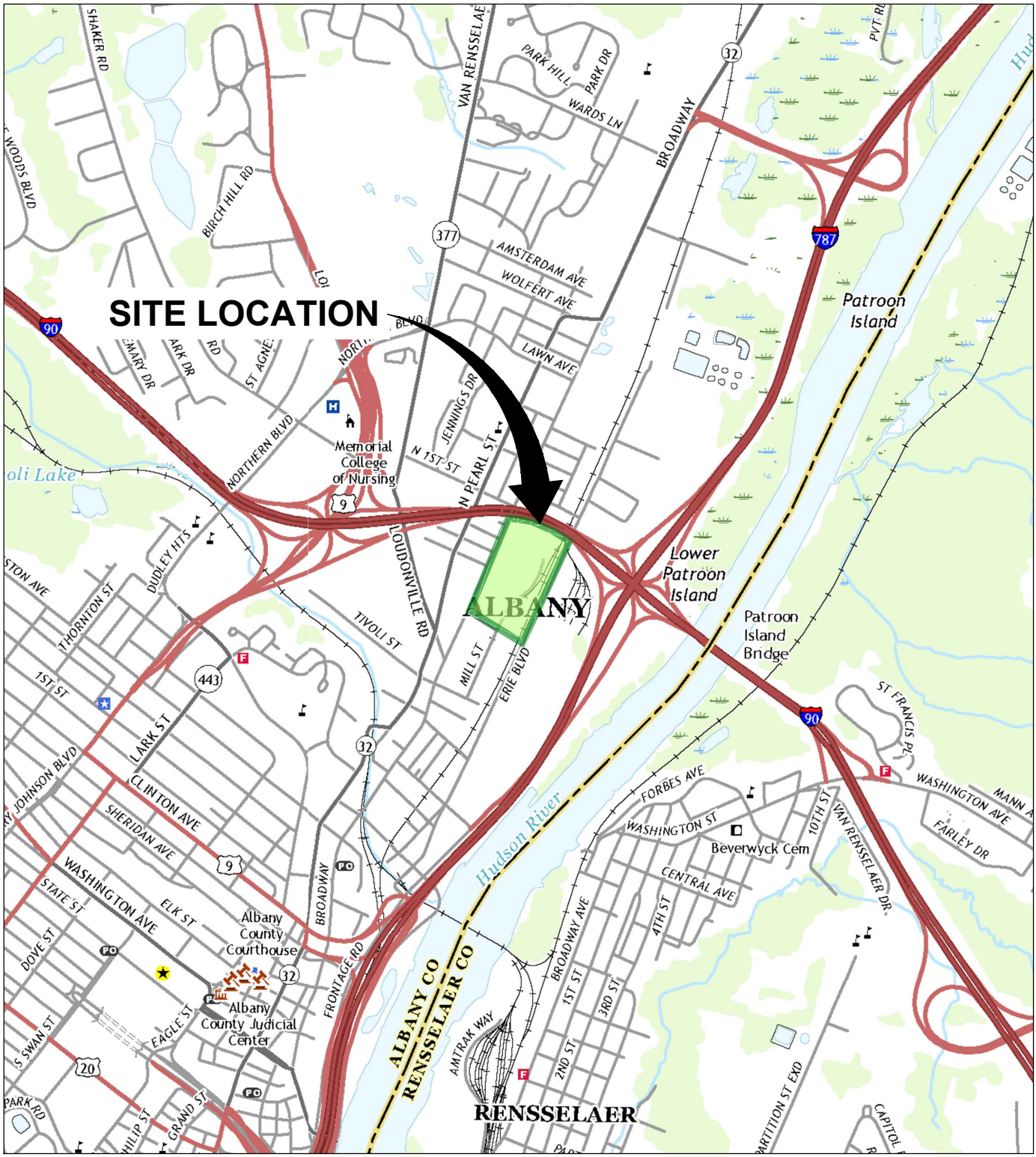
Table 1
Soil Analytical Results (ppm)

Guard Station Relocation Focused Soil Investigation
National Grid
North Albany Former Manufactured Gas Plant Site
Albany, New York

Notes:

1. Samples were collected by Arcadis of New York, Inc. (Arcadis) on the dates indicated.
2. Samples were analyzed by Eurofins TestAmerica of Amherst, New York for the following:
   - Polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082A.
   - Target Compound List (TCL) volatile organic compounds (VOCs) using USEPA SW-846 Method 8260C.
   - TCL semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 8270D.
   - Target Analyte List (TAL) inorganic constituents using USEPA SW-846 Method 6010C, 7471B, and 9012B.
   - Total petroleum hydrocarbons (TPH) diesel range organics (DRO) using USEPA SW-846 Method 8015D.
   - TPH gasoline range organics (GRO) using USEPA SW-846 Method 8015D.
3. Concentrations reported milligrams per kilogram (mg/kg), which is equivalent to parts per million (ppm).
4. Duplicate samples are shown in [ ].
5. Only those constituents detected in one or more samples are summarized.
6. Data qualifiers are defined as follows:
   - < - Constituent not detected at a concentration above the reported detection limit.
   - B - Compound was found in the blank and sample.
   - F1 - Matrix spike or matrix spike duplicate recovery exceeds control limits.
   - F2 - Matrix spike/matrix spike duplicate relative percent difference exceeds control limits
   - J - Indicates that the associated numerical value is an estimated concentration.
   - * - Instrument related quality control is outside acceptance limits.
7. 6 NYCRR Part 375 Soil Cleanup Objectives (SCOs) are from Title 6 of the Official Compilation of Codes, Rules, and Regulations of the State of New York (6 NYCRR) Part 375-6.8(b), effective December 14,2006.
8. Shading indicates that the result exceeds the 6 NYCRR Part 375 Commercial Use SCO.
9. NA = not analyzed.
10. - - = No 6 NYCRR Part 375 SCO listed.
11. Results have not been validated.

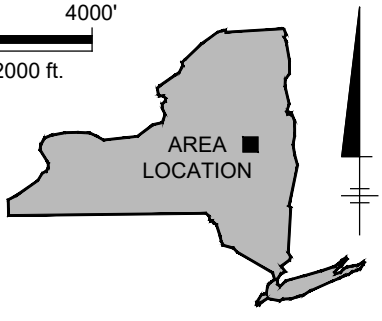
FIGURES



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., ALBANY & TROY SOUTH, NY, 2019.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
GUARD STATION RELOCATION

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY: SYRACUSE NY DIV/GROUP: ENVCAD DB: E. KRAHMER PIC: PM: TM: TR: LYR:(Opt)ON=*;OFF=*REF*
C:\Users\EKrahmer\BIM 360\Arcadis\ANA - National Grid\Project Files\NORTH ALBANY MGP SITE\2020\300314431\01-DWG\N_ALB_MGP_Fig 01_SLM.dwg LAYOUT: 1 SAVED: 7/8/2020 2:22 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 10/19/2020 1:32 PM BY: KRAHMER, ERIC
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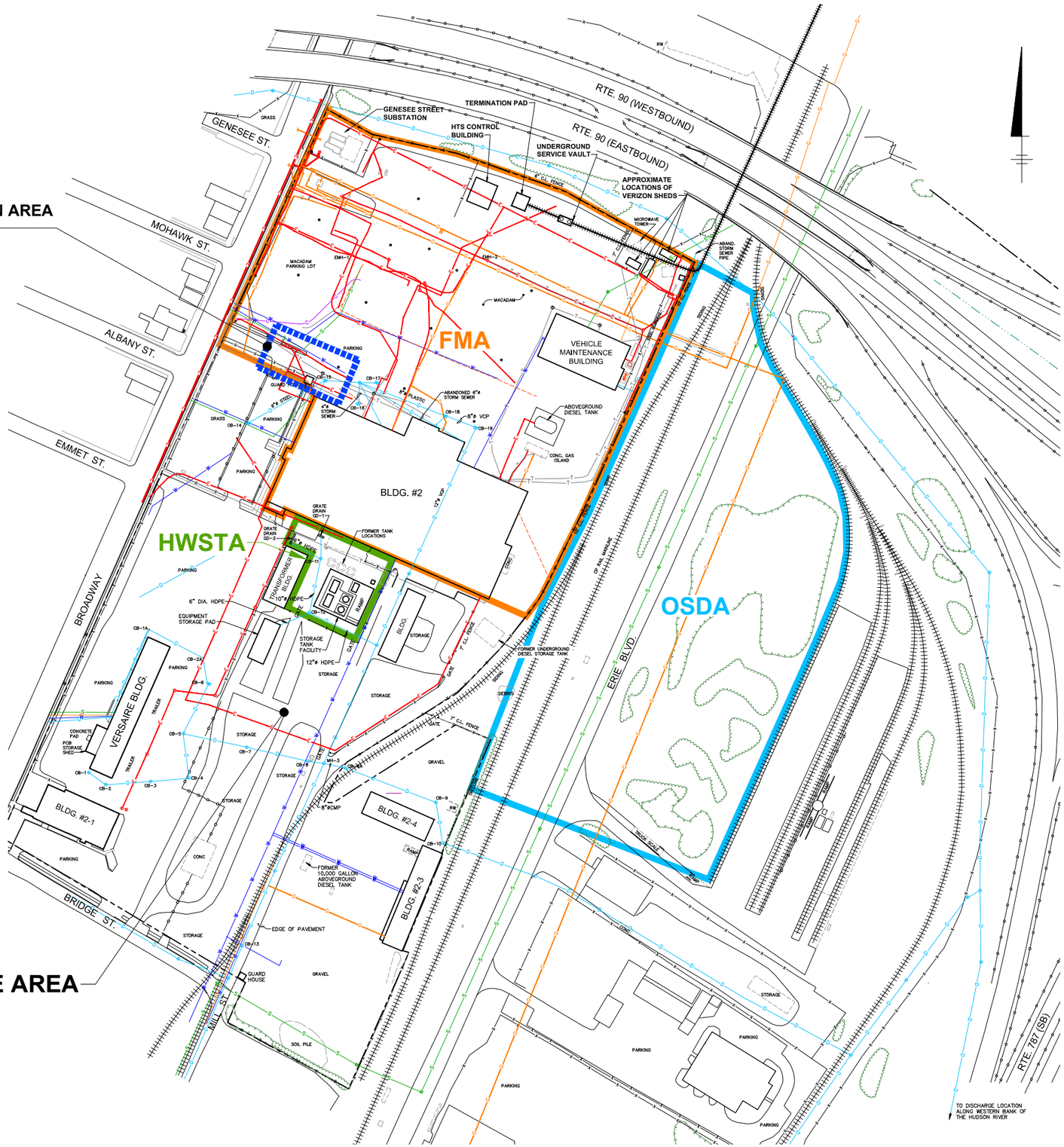
NY_Troy_South_20190919_TM_geo.png

GUARD STATION RELOCATION
FOCUSED SOIL INVESTIGATION AREA
(SEE FIGURE 3 FOR SAMPLING LOCATIONS)

YARD STORAGE AREA



LEGEND:

- APPROXIMATE LOCATION OF HIGH TEMPERATURE SUPERCONDUCTIVE CABLE
- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- APPROXIMATE PROPERTY LINE
- UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING ELECTRICAL MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING UNKNOWN UTILITY MANHOLE
- STORM SEWER
- SANITARY SEWER
- TELEPHONE LINE
- ELECTRICAL LINE
- GAS LINE
- WATER LINE
- CABLE LINE
- UNKNOWN UTILITY
- FORMER MGP AREA
- OFF-SITE DOWNGRADIENT AREA
- HAZARDOUS WASTE STORAGE TANK AREA
- APPROXIMATE MATERIAL STAGING AREA
- PROPOSED SOIL INVESTIGATION AREA

NOTES:

1. BASE MAP (INCLUDING BUILDING LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29736-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP - INDEX SHEET.
2. LOCATIONS OF UNDERGROUND UTILITIES (INCLUDING ON-SITE STORM SEWERS, SANITARY SEWERS, TELEPHONE LINES, ELECTRICAL LINES, GAS LINES, WATER LINES, AND CABLE) WERE DIGITIZED FROM NMPC DRAWING NO. D-29734-E, FILE INDEX NO. 20.3-A1.1-B2, DATED JUNE 27, 1994, ENTITLED NORTH ALBANY SERVICE CENTER SITE PLAN - PAVING (OUTSIDE FENCE). LOCATION OF UNDERGROUND TELEPHONE LINES, ELECTRICAL LINES, GAS LINES, AND CABLE LINES WERE UPDATED BASED ON ELECTROMAGNETIC UTILITY SURVEY CONDUCTED BY UNDERGROUND SERVICES, INC. DURING OCTOBER 2012. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MUST BE DETERMINED/CONFIRMED PRIOR TO IMPLEMENTING SUBSURFACE WORK ACTIVITIES.
3. LOCATIONS OF MANHOLES AND CATCH BASINS WERE OBTAINED FROM SURVEYS CONDUCTED BY NMPC DURING JULY/AUGUST 1997 AND NATIONAL GRID DURING OCTOBER 2012.
4. LOCATIONS OF OFF-SITE STORM AND SANITARY SEWERS WERE DIGITIZED FROM CITY OF ALBANY DRAWINGS AND ARE APPROXIMATE.
5. FMA = FORMER MANUFACTURED GAS (MGP) PLANT AREA.
6. OSDA = OFF-SITE DOWNGRADIENT AREA.
7. HWSTA = HAZARDOUS WASTE STORAGE TANK AREA.

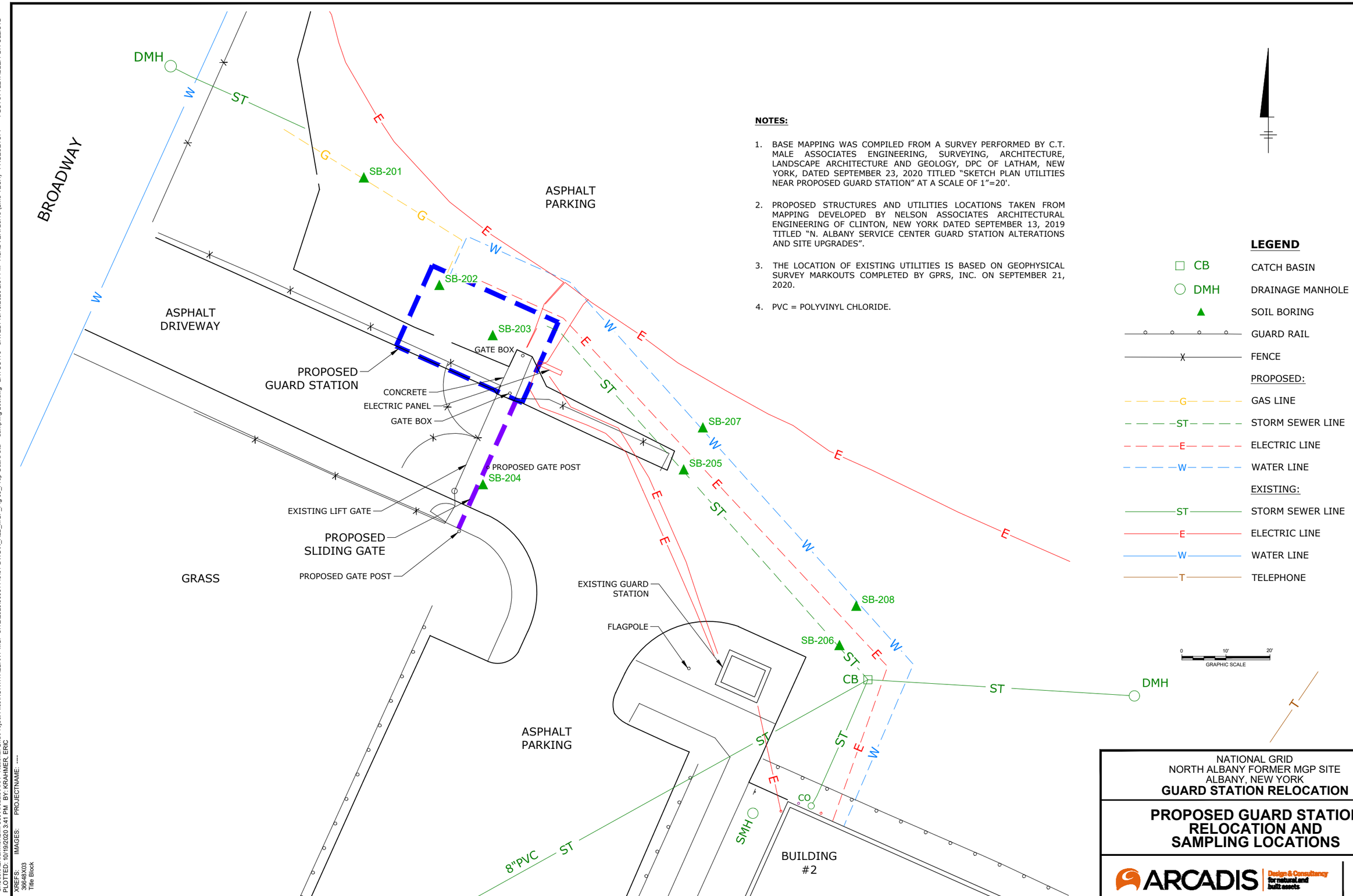
0 100' 200'
GRAPHIC SCALE

NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
GUARD STATION RELOCATION

SITE LAYOUT AND FOCUSED SOIL INVESTIGATION AREA

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2



NOTES:

1. BASE MAPPING WAS COMPILED FROM A SURVEY PERFORMED BY C.T. MALE ASSOCIATES ENGINEERING, SURVEYING, ARCHITECTURE, LANDSCAPE ARCHITECTURE AND GEOLOGY, DPC OF LATHAM, NEW YORK, DATED SEPTEMBER 23, 2020 TITLED "SKETCH PLAN UTILITIES NEAR PROPOSED GUARD STATION" AT A SCALE OF 1"=20'.
2. PROPOSED STRUCTURES AND UTILITIES LOCATIONS TAKEN FROM MAPPING DEVELOPED BY NELSON ASSOCIATES ARCHITECTURAL ENGINEERING OF CLINTON, NEW YORK DATED SEPTEMBER 13, 2019 TITLED "N. ALBANY SERVICE CENTER GUARD STATION ALTERATIONS AND SITE UPGRADES".
3. THE LOCATION OF EXISTING UTILITIES IS BASED ON GEOPHYSICAL SURVEY MARKOUTS COMPLETED BY GPRS, INC. ON SEPTEMBER 21, 2020.
4. PVC = POLYVINYL CHLORIDE.

LEGEND

- CB — CATCH BASIN
- DMH — DRAINAGE MANHOLE
- SOIL BORING
- GUARD RAIL
- FENCE

PROPOSED:

- G — GAS LINE
- ST — STORM SEWER LINE
- E — ELECTRIC LINE
- W — WATER LINE

EXISTING:

- ST — STORM SEWER LINE
- E — ELECTRIC LINE
- W — WATER LINE
- T — TELEPHONE

NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
GUARD STATION RELOCATION

PROPOSED GUARD STATION RELOCATION AND SAMPLING LOCATIONS

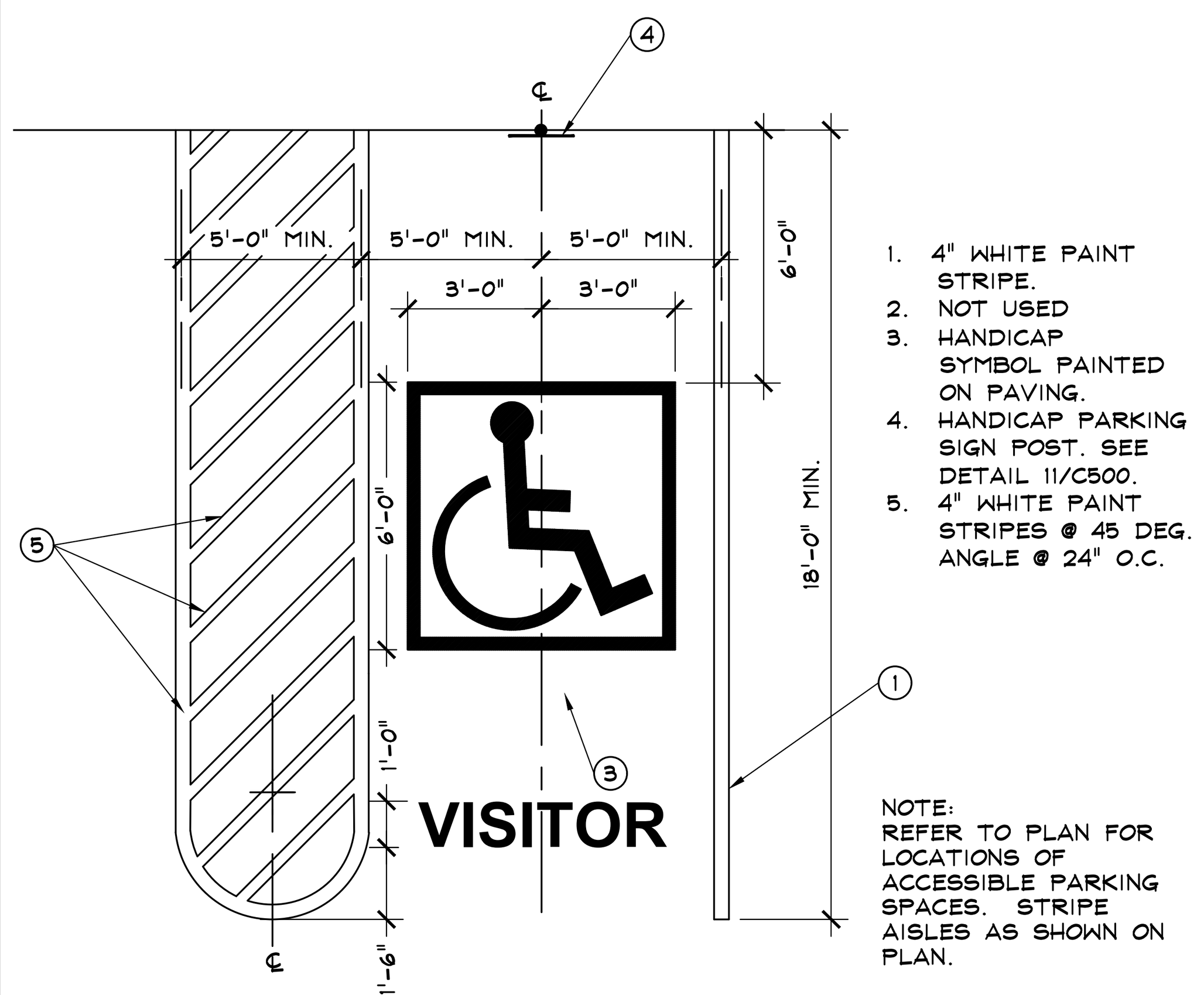
ARCADIS Design & Consultancy for natural and built assets

FIGURE
3

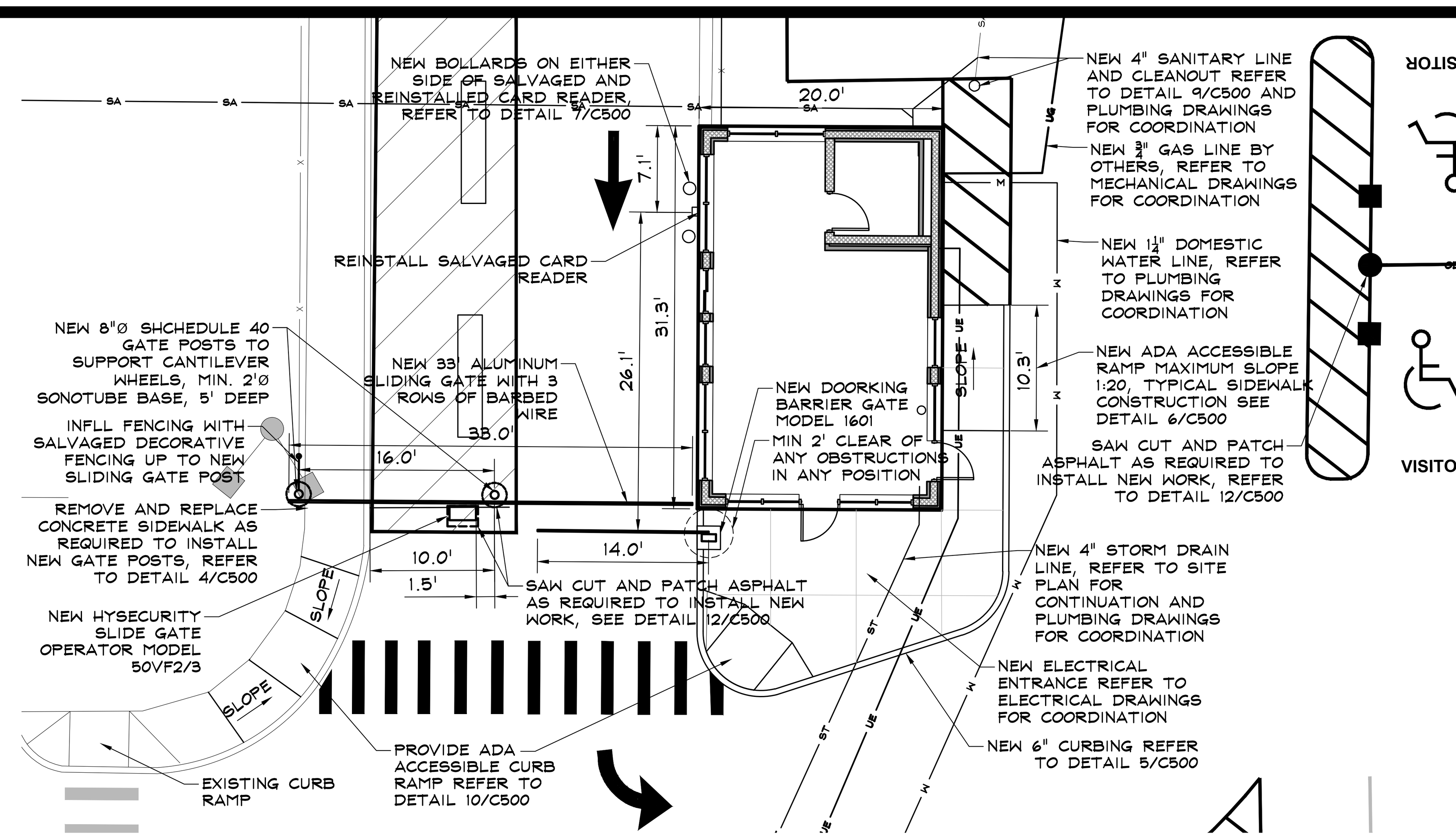
CITY: SYRACUSE NY DIV/GROUP: ENV/IM-DV DB: R. ALLEN, E. KRAHMER LD:(Opt) PM: J. BRUSSEL LYR:(Opt)ON=*;OFF=*REF*
C:\Users\EKrahmer\BIM 360\Arcadis\ANA - National Grid\Project Files\NORTH ALBANY MGP SITE\2020\30031443\01-DWG\N_ALB_MGP_Fig 03_Prop Guard Sta + Sampling Loc.dwg LAYOUT: 3 SAVED: 10/19/2020 2:54 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 10/19/2020 3:41 PM BY: KRAHMER, ERIC
XREFS: IMAGES: PROJECTNAME: ----
36648X03
Title Block

ATTACHMENT 1

Guard Station Relocation Design Drawing



3/C101 PAVEMENT MARKING DETAILS
SCALE: 1/4" = 1'-0"

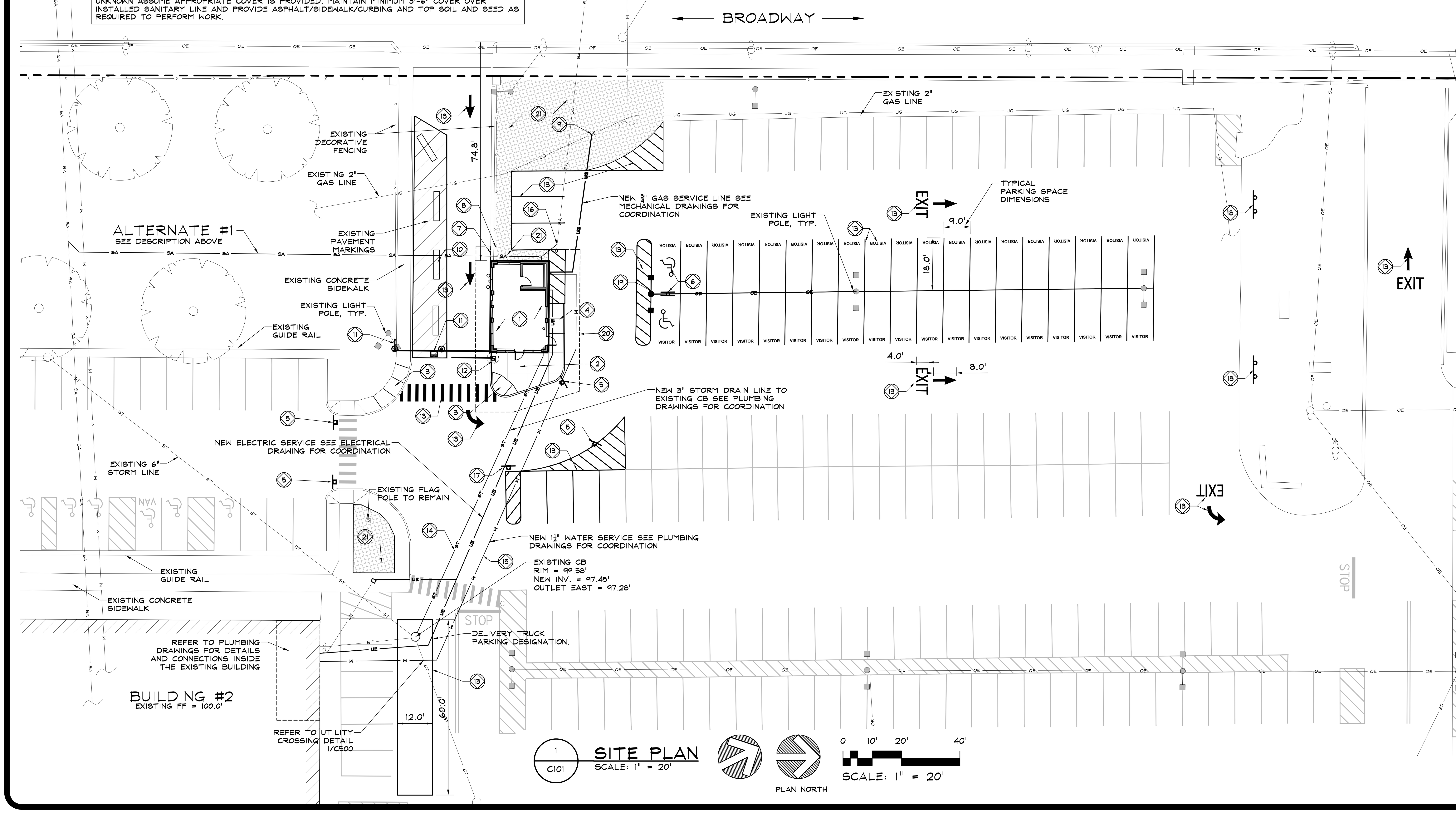


2/C101 PARTIAL SITE PLAN
SCALE: 1" = 10'

LEGEND

Symbol	Description
	POST & SIGN
	WATER METER
	WATER VALVE
	HYDRANT
PIV	POST INDICATOR VALVE
	UTILITY POLE
	LIGHT POLE(S)
CB	CATCH BASIN
MH	DRAINAGE (STORMWATER) MANHOLE
MH	SANITARY MANHOLE
MH	ELECTRIC MANHOLE
MH	UNKNOWN MANHOLE (POSS. UTILITY)
	CLEAN-OUT (SAN./STORM)
x	FENCE LINE
SA	SANITARY SEWER
ST	STORM SEWER
UE	UNDERGROUND ELECTRIC
W	WATER
UG	UNDERGROUND GAS

ALTERNATE #1 – IN THE EVENT THE EXISTING SANITARY LINE TO THE STREET IS EXCAVATED AND DETERMINED TO BE UNUSABLE, THE CONTRACTOR SHALL PROVIDE A COST FOR THE MATERIALS AND LABOR ASSOCIATED WITH INSTALLING A SANITARY LINE AND CLEAN OUT AS INDICATED TO TIE INTO THE EXISTING SANITARY SEWER LATERAL IN FRONT OF BUILDING #2, EXISTING SANITARY ELEVATION UNKNOWN ASSUME APPROPRIATE COVER IS PROVIDED. MAINTAIN MINIMUM 3'-6" COVER OVER INSTALLED SANITARY LINE AND PROVIDE ASPHALT/SIDEWALK/CURBING AND TOP SOIL AND SEED AS REQUIRED TO PERFORM WORK.



1/C101 SITE PLAN
SCALE: 1" = 20'

GENERAL NOTES

1. DESIGNED IN ACCORDANCE WITH THE 2015 BUILDING CODE OF NEW YORK STATE (BCNYS).
2. DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD BY CONTRACTOR.
3. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN DIMENSIONS BETWEEN EXISTING CONDITIONS AND/OR ARCHITECTURAL DRAWINGS AND THE STRUCTURAL DRAWINGS.
4. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
5. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED.
6. THE NOTES ON THIS DRAWING ARE TYPICAL UNLESS OTHERWISE INDICATED.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF PURPOSED DEVIATIONS OR SUBSTITUTIONS FROM DIMENSIONS, MATERIALS, OR EQUIPMENT SHOWN ON THE DRAWINGS AND MAKE ONLY THOSE DEVIATIONS OR SUBSTITUTIONS ACCEPTED BY ENGINEER.
8. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BY MEANS OF GPR AS REQUIRED BY NATIONAL GRID BEFORE COMMENCING WORK. GPR SHALL BE PERFORMED IN THE AREAS OF ANY EXCAVATIONS OR SAWCUTS. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR DAMAGES WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE EXISTING UTILITIES.
9. COORDINATE NUMBER AND LOCATION OF ROOF OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
10. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY AND FOR COMPLIANCE WITH ALL OSHA REGULATIONS DURING CONSTRUCTION.
11. SEE ARCHITECTURAL SHEETS FOR ELEVATION CHANGE BETWEEN FINISHED FLOOR OF EXIST. BUILDING AND FINISHED GRADE ON THE EXTERIOR OF THE BUILDING. ALWAYS SLOPE FINISHED GRADE AWAY FROM BUILDING TO CREATE POSITIVE DRAINAGE.
12. ALL SITE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NYS SSESC).
13. ALL CONSTRUCTION WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE NOISE, DUST, AND DISTURBANCE.

KEYED NOTES

1. NEW BUILDING LOCATION REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
2. PROVIDE NEW SIDEWALK AS ILLUSTRATED, TYPICAL SIDEWALK PANEL MAXIMUM CONTROL JOINT SPACING 7'-0" X 7'-0", SEE DETAIL 6/C500.
3. PROVIDE CURB RAMP AT PEDESTRIAN CROSSING LOCATIONS, SEE DETAIL 10/C500 AND 6/C500.
4. PROVIDE ADA ACCESS RAMP AT THIS LOCATION, MAXIMUM SLOPE 1:20, SEE DETAIL 6/C500.
5. PROVIDE ALUMINUM 18"x18" "DO NOT ENTER" SIGN WITH PRECAST CONCRETE BASES, BASIS OF DESIGN FOR BASES IS TAPCO 18054D, 250LB PRECAST BASE.
6. PROVIDE HANDICAP ACCESSIBLE PARKING IDENTIFICATION SIGNS AND PAVEMENT MARKINGS AT ADA PARKING SPACES AS SHOWN, SEE DETAILS 3/C101 AND 11/C500.
7. PROVIDE NEW CONCRETE CURBING. REFER TO DETAIL 4/C500 AND 5/C500.
8. REINSTALL DECORATIVE FENCING UP TO WEST BUILDING FACE, FASTEN SECURELY TO NEW BUILDING EXTERIOR.
9. NEW GAS CONNECTION BY OTHERS, REFER TO MECHANICAL DRAWINGS FOR COORDINATION.
10. PROVIDE 4 PRECAST CONCRETE JERSEY BARRIERS FOR TRAFFIC CONTROL AT MAIN ENTRANCE, BASIS OF DESIGN KISTNER 10'-0" SECURITY BARRICADE BARRIER.
11. PROVIDE NEW 33' ALUMINUM SLIDING GATE WITH 3 ROWS OF BARBED WIRE AND OPERATOR BY ALL TYPE PROFESSIONAL DOOR SERVICE, SLIDE GATE OPERATOR MODEL HYSECURITY 50VF2/3 WITH GROOVED ALUMINUM DRIVE RAIL AND 3 LOOP DETECTORS. CONTRACTOR TO PROVIDE AND INSTALL BASE AND ELECTRICAL CONDUITS PER MANUFACTURES INSTRUCTIONS, BASE SIZE 20"Lx30"Wx54"H WITH 6" REVEAL ABOVE GRADE AND PLACED ON A 6" BED OF COMPACTED SUBBASE. REFER TO 2/C101 FOR GATE POST REQUIREMENTS.
12. PROVIDE NEW TRAFFIC ARM AND OPERATOR BY ALL TYPE PROFESSIONAL DOOR SERVICE, DOOR KING BARRIER GATE OPERATOR MODEL 1601 WITH 14' ALUMINUM ARM WITH BREAKAWAY KIT AND ARM LIGHT KIT. CONTRACTOR TO PROVIDE AND INSTALL BASE AND ELECTRICAL CONDUITS PER MANUFACTURES INSTRUCTIONS, BASE SIZE 23"Lx23"Wx36"H WITH 4" REVEAL ABOVE GRADE AND PLACED ON A 6" BED OF COMPACTED SUBBASE.
13. PROVIDE PAVEMENT MARKINGS AS SHOWN, COLOR SHALL BE WHITE UNLESS OTHERWISE NOTED.
14. PROVIDE NEW 3" STORM LINE FROM BUILDING ROOF DRAINS TO EXISTING CATCH BASIN, CORE DRILL FOR NEW PENETRATION INTO CATCH BASIN AT INDICATED ELEVATION.
15. PROVIDE NEW DOMESTIC WATER LINE PROVIDE MINIMUM 5' OF CONTINUOUS COVER, REFER TO PLUMBING DRAWINGS FOR COORDINATION.
16. CONTRACTOR TO EXCAVATE AND DETERMINE SIZE, ELEVATION AND CONDITION OF EXISTING PREVIOUSLY ABANDONED SANITARY LINE, FLUSH/JET AND SCOPE EXISTING LINE TO DETERMINE IF IT IS ACCEPTABLE FOR REUSE AND PROMPTLY NOTIFY ENGINEER OF FINDINGS. AFTER INVESTIGATIVE WORK TO CONFIRM LINE IS ADEQUATE, PROVIDE 4" SANITARY LINE AND CLEANOUT AS SHOWN FROM NEW BUILDING TO TIE INTO EXISTING SANITARY LINE.
17. PROVIDE ALUMINUM "VISITOR PARKING" SIGN TO DIRECT INCOMING TRAFFIC, WITH PRECAST CONCRETE BASE, BASIS OF DESIGN FOR BASE IS TAPCO 18054D, 250LB PRECAST BASE.
18. PROVIDE 4'x6' PAINTED PLYWOOD SIGNS IDENTIFYING THE EXIT PATH FOR VEHICULAR TRAFFIC, EACH SIGN SHALL HAVE (2) 12"Ø SONOTUBE BASES MINIMUM 36" DEPTH ON A 6" BED OF COMPACTED SUBBASE.
19. CONTRACTOR TO PROVIDE CONCRETE BASE AND LIGHT POLE/FIXTURE. REFER TO ELECTRICAL DRAWINGS FOR DETAILS AND COORDINATION.
20. APPROXIMATE AREA OF ASPHALT PAVING TO BE INSTALLED AFTER COMPLETION OF BELOW GRADE WORK, REFER TO DETAIL 12/C500.
21. PROVIDE 4" OF NEW TOPSOIL AND SEED IN GRASSED AREAS AFFECTED BY DEMO AND NEW WORK AS SHOWN.

NELSON ASSOCIATES
ARCHITECTURAL ENGINEERING
1 North Park Row • Clinton, NY 13323-1536

PROJECT TITLE
NATIONAL GRID
N. ALBANY SERVICE CENTER
GUARD STATION ALTERATIONS
AND SITE UPGRADES
1125 BROADWAY
MENANDS, NEW YORK 13204

PROJECT NO. 19-2038

REVISION	DATE	BY

DATE	09/13/19
DRAWN BY	DRK
CHECKED BY	PNN
APPROVED BY	PNN
SCALE	AS NOTED

SHEET TITLE
SITE PLAN

SHEET NO.
C101

ATTACHMENT 2

Focused Investigation Soil Boring Logs

ARCADIS

mple/Core Log

Boring/Well SB-201 Project/No. Not Grid North Albany Page 1 of 1

Site Location Broadway, Menands, NY

Drilling Started Drilling Completed

Total Depth Drilled 5' Feet Hole Diameter ~4" inches Type of Sample/ Coring Device ~~Split Spoon~~ Hand Auger

Length and Diameter of Coring Device 10" x 4" Hand Auger Sampling Interval 1 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Drilling Fluid Used NA Drilling Method Hand Auger

Drilling Contractor Parratt Wolff Driller Mark Eaves Helper Jared Eaves

Prepared By K. Liloia Hammer Weight NA Hammer Drop NA ins.

MS/MSD taken here 0930
SB-201 (10') 0930

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	PID Reading (ppm)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.5' Below Asphalt	Bottom (10" BGS)		0.1		f/m/c sand w/ Cobbles, Brown
	1'		0.1		f/m/c Sand w/ Cobbles, Brown
	2'		0.1		f/m Sand w/ clumps of plastic Brown clay throughout. Brown
	3'		0.1		f/m Sand w/ few cobbles throughout - loose Brown
	4'		0.1		f/m Sand w/ Coarse Sand throughout - loose Brown
	5'		0.1		f/m Sand w/ Cobbles throughout. loose - Brown

Found Possible Pipe @ 4' in original hole location - Already Saw Cut 2' of asphalt for MS/MSD Sampling. • NO pipe found

ARCADIS

ample/Core Log

Boring/Well SB-202 Project/No. Nat. Grid North Albany Page ___ of ___

Site Location Broadway, Menands, NY Drilling Started ___ Drilling Completed ___

Total Depth Drilled 5' Feet Hole Diameter ~~6"~~ inches Type of Sample/Coring Device ~~Split Spoon~~ KL Hand Auger

Length and Diameter of Coring Device 10" x 4" Hand Auger Sampling Interval 1 feet

Land-Surface Elev. NA feet ☐ Surveyed ☐ Estimated Datum ___

Drilling Fluid Used NA Drilling Method Hand Auger

Drilling Contractor Parratt Wolff Driller Mark Caves Helper Jared Eaves

Prepared By K. Liloia Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	PID Reading (ppm)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
6" under	Asphalt		0.2		c/m/f Sand w/ cobbles - Dark Brown
	1' BGS		0.2		c/m/f Sand w Trace cobbles & Brick fragments - DK Brown
	2' BGS		0.2		m/f Sand w/ increasing clay (15%) - Some coarse sand throughout - trace angular gravel
	3' BGS		0.2		c/m/f Sand w/ glass debris, some cobbles & Brick fragments
	4' BGS		0.2		c/m/f Sand w/ gravel - increasing clay content (15%)
	5' BGS		0.2		SAA

SB-202 (10')

1525

Sample/Core Log

ARCADIS

9-24-2020

Boring/Well SB-203 Project/No. Not. Grid North Albany Page 1 of 1

Site Location Broadway, Menands, NY

Drilling Started ____ Drilling Completed ____

Total Depth Drilled 5' Feet Hole Diameter ~4" inches Type of Sample/ Coring Device ~~Split Spoon~~ Hand Auger

Length and Diameter of Coring Device 10" x 4" Hand Auger Sampling Interval 1 feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used NA Drilling Method Hand Auger

Drilling Contractor Parrott Wolff Driller Mark Eaves Helper Jared Eaves

Prepared By K. Liloia Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	PID Reading (ppm)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.5' from	bottom of asphalt		0.3		C/m/f sand w/ cobbles - loose - DK Brown
1' BGS			0.3		C/m/f sand w/ cobbles - loose - DK Brown
2' BGS			0.3		m/f sand w/ some coarse Sand throughout - loose Brown
3' BGS			0.3		Ash material w/ m/f sand throughout - some Fibrous tree ~~pieces~~ pieces - little cobbles DK Brown/ Black
4' BGS			0.1		Ash material w/ m/f/coarse sand & cobbles throughout DK Brown/Black
5' BGS			0.3		Plastic Clay w/ F/m sand throughout - Brown

SB-203(10")
0800

5'

ARCADIS

ample/Core Log

Boring/Well SB-204 Project/No. 30058019.0010 Page 1 of 1

Site Location Broadway, Menands, NY

Drilling Started Drilling Completed

Total Depth Drilled 5' Feet Hole Diameter ~4" inches Type of Sample/ Coring Device ~~Split Spoon~~ XL Hand Auger

Length and Diameter of Coring Device 4" x 10" Sampling Interval 1 feet

Land-Surface Elev. NA feet ☐ Surveyed ☐ Estimated Datum

Drilling Fluid Used NA Drilling Method Hand auger

Drilling Contractor Parrott Wolff Driller Helper

Prepared By Hammer Weight Hammer Drop ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	PID Reading (ppm)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
6" below asphalt	10" below grade		0.3		m/c sand w/ cobbles DK Brown
1'			0.2		SAA
2'			0.1		f/m/c sand w/ cobbles, Brick fragments - DK Brown - some tan sand
3'			0.2		f/m/c sand w/ cobbles - Brown
4'			0.1		m/f sand, ~~clay~~ with increasing Clay - loose some coarse sand throughout Brown
5'			0.3		m/f/c sand - Tan loose

Sampled @ 1130 SB-204 (10")

ARCADIS

ample/Core Log

Boring/Well SB-205 Project/No. Nat. Grid North Albany Page ____ of ____

Site Location Broadway, Menands, NY

Drilling Started ____ Drilling Completed ____

Total Depth Drilled 4 Feet Hole Diameter 4" inches Type of Sample/ Coring Device Split Spoon

Length and Diameter of Coring Device ~4" width, 1' Long Sampling Interval 1' feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used ____ Drilling Method Hand

Drilling Contractor Parratt Wolff Driller ____ Helper ____

Prepared By ____ Hammer Weight ____ Hammer Drop ____ ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	PID Reading (ppm)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.5' (8")	from bottom asphalt BGS)		0.2		f/m/c sand w/ cobbles - loose - Brown
1'	BGS		0.2		f/m/c sand w/ cobbles - loose - Brown
2'	BGS		0.2		wet f/m sand w/ cobbles
3'	BGS		0.2		wet f/m sand Trace Silt ~~Some clay~~ little cobble Brown
4'	BGS		0.2		wet f/m sand ↑ clay content (25% clay) Brown

SB-205 (8") 1050

Dup-20200923 1300

4'

ARCADIS

ample/Core Log

Boring/Well SB-206 Project/No. 30058819.00010 Page 1 of 1

Site Location Broadway, Menands, NY

Drilling Started ____ Drilling Completed ____

Total Depth Drilled 4' Feet Hole Diameter ____ inches Type of Sample/ Coring Device ~~Split Spoon~~ Hand Auger

Length and Diameter of Coring Device ____ Sampling Interval ____ feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used ____ Drilling Method Hand Auger

Drilling Contractor ____ Driller ____ Helper ____

Prepared By ____ Hammer Weight ____ Hammer Drop ____ ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	PID Reading (ppm)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.5' from asphalt	Bottom 7-10" BG		0.2		CMF sand w/ angular gravel, Dark Brown
1' BGS			0.2		SAA
2' BGS			0.2		m/F sand w/ little clay (15% clay) some Coarse sand throughout dk Brown
3'			0.2		SAA w/ ↑ Coarse sand
4'			0.0		SAA w/ ↑

Sample @ 1250

SB-206 (10")

ARCADIS

ample/Core Log

Boring/Well SB-207 Project/No. 30058019.0001 Page 1 of 1

Site Location Broadway, Menands, NY

Drilling Started ____ Drilling Completed ____

Total Depth Drilled 4' Feet Hole Diameter ____ inches Type of Sample/Coring Device ~~Split Spoon~~ Hand Auger

Length and Diameter of Coring Device ____ Sampling Interval 1 feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used ____ Drilling Method ____

Drilling Contractor ____ Driller ____ Helper ____

Prepared By ____ Hammer Weight ____ Hammer Drop ____ ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	PID Reading (ppm)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
6" Below	Asphalt		0.7		c/m/f Sand w/ cobbles - Brown
	1'		0.2		c/m/f Sand w/ little cobble - Brown
	2'		0.2		m/f sand trace silt
	3'		02		m/f Sand w/ silt trace clay
	4'		0.2		m/f Sand w/ silt & Trace clay - large Gravel throughout - low recovery
	5'		0.1		m/f Sand w/ silt & clay - some gravel throughout wet
	6'		0.2		SAA

SB-207 - (6") 1225

ample/Core Log

ARCADIS

Boring/Well SB-20 Project/No. 30058019.:0010 Page ___ of ___

Site Location Broadway, Menands, NY

Drilling Started ___ Drilling Completed ___

Total Depth Drilled ___ Feet Hole Diameter ___ inches Type of Sample/ Coring Device Split Spoon

Length and Diameter of Coring Device ___ Sampling Interval ___ feet

Land-Surface Elev. ___ feet ☐ Surveyed ☐ Estimated Datum ___

Drilling Fluid Used ___ Drilling Method ___

Drilling Contractor ___ Driller ___ Helper ___

Prepared By ___ Hammer Weight ___ Hammer Drop ___ ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	PID Reading (ppm)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
6" Below	asphalt		0.1		C/m/f Sand w/ angular gravel DK Brown
	1' BGS		0.1		SAA - Brown
	2'		0.1		C/m/f Sand - Clay content increasing (15% clay) loose. Some cobbles throughout - Brown
	3'		0.1		SAA w/ increased clay content (25% clay)
	4'		0.1		Wet m/f sand w/ coarse sand & few cobbles throughout
	5'		0.1		SAA
	6'		0.1		Saturated m/f Sand w/ Trace Cobbles

Sample @ 6'08 (10")
1350

ATTACHMENT 3

Geophysical Survey Results

Summary of Underground Utility Locating Summary of Underground Utility Locating for Soil Borings

Prepared For: ARCADIS

Prepared By:
Larklin Bryan
Larklin.bryan@gprsinc.com
Project Manager-NYC
646-866-4225

September 23, 2020

September 23, 2020

ARCADIS
Attn: MATT HYSELL
Site: NATIONAL GRID -1125 BROADWAY, ALBANY NY

We appreciate the opportunity to provide this report for our work completed on September 21, 2020.

PURPOSE

The purpose of the project was to search for underground utilities and clear multiple boring locations within the project boundaries provided by the client. Each boring location varied in size. The client marked out desired locations prior tp our scanning, markings were placed on surface sing spray paint

EQUIPMENT

- **Underground Scanning GPR Antenna**. The antenna with frequencies ranging from 250 MHz-450 MHz is mounted in a stroller frame which rolls over the surface. The surface needs to be reasonably smooth and unobstructed in order to obtain readable scans. Obstructions such as curbs, landscaping, and vegetation will limit the feasibility of GPR. The data is displayed on a screen and marked in the field in real time. The total depth achieved can be as much as 8' or more with this antenna but can vary widely depending on the types of materials being scanned through. Some soil types such as clay may limit maximum depths to 3' or less. As depth increases, targets must be larger in order to be detected and non-metallic targets can be especially difficult to locate. Depths provided should always be treated as estimates as their accuracy can be affected by multiple factors. For more information, please visit: Link
- **Electromagnetic Pipe Locator**. The EM locator can passively detect the electromagnetic fields from live AC power or from radio signals travelling along some conductive utilities. It can also be used in conjunction with a transmitter to connect directly to accessible, metallic pipes or tracer wires. A current is sent through the pipe or tracer wire at a specific frequency and the resulting EM field can then be detected by the receiver. A utility's ability to be located depends on a variety of factors including access to the utility, conductivity, grounding, interference from other fields, and many others. Depths provided should always be treated as estimates as their accuracy can be affected by multiple factors. For more information, please visit: Link

PROCESS

The process typically begins with using the EM pipe locator to locate pipes or utilities throughout the scan area. First, the transmitter is used to connect to and trace any visible risers, tracer wires, or accessible, conductive utilities provided that there is an exposed, metallic surface. The areas are then swept with the receiver to detect live power or radio frequency signals. Locations and depths are painted or flagged on the surface. Depths cannot always be provided depending on the location method and can be prone to error.

Initial GPR scans were then collected in order to evaluate the data and calibrate the equipment. Based on these findings, a scanning strategy is formed, typically consisting of scanning the entire area in a grid with 2'X'2 scan spacing in order to locate any potential utilities that were not found with the pipe locator. The GPR data is viewed in real time and anomalies in the data are located and marked on the surface along with their depths using spray paint, pin flags, etc.

.

LIMITATIONS

Please keep in mind that there are limitations to any subsurface investigation. The equipment may not achieve maximum effectiveness due to soil conditions, above ground obstructions, reinforced concrete, and a variety of other factors. No subsurface investigation or equipment can provide a complete image of what lies below. Our results should always be used in conjunction with as many methods as possible including consulting existing plans and drawings, exploratory excavation or potholing, visual inspection of above-ground features, and utilization of services such as One Call/811. Depths are dependent on the dielectric of the materials being scanned so depth accuracy can vary throughout a site. Relevant scan examples were saved and will be provided in this report.

Please keep in mind that there are limitations to any subsurface investigation. The equipment may not achieve maximum effectiveness due to soil conditions, above ground obstructions, reinforced concrete, and a variety of other factors. No subsurface investigation or equipment can provide a complete image of what lies below. Our results should always be used in conjunction with as many methods as possible including consulting existing plans and drawings, exploratory excavation or potholing, visual inspection of above-ground features, and utilization of services such as One Call/811. Depths are dependent on the dielectric of the materials being scanned so depth accuracy can vary throughout a site. Relevant scan examples were saved and will be provided in this report.

FINDINGS

The subsurface conditions at the time of the scanning allowed for maximum GPR depth penetration of 2' to 3' in most areas. Multiple utilities were able to be located such as some electrical, communications, and drain lines using either the GPR or EM pipe locator. Some utilities were not able to be located such as water and gas. Utilities that couldn't be located did not carry tracing signals within scope. Direct connected to water and gas received distorted tones. GPRS suspect there may be untraceable abandoned utilities present. Use extreme caution when excavating. Highly recommend hand excavation. The following pages will provide further explanation of the findings.

Picture 1: Electrical conduit coming out of security post.

Picture 2: Communications manhole. Conduits going into the building and straight out the other way. Conduits going to the building looked as if they were cut.

Picture 3: Drainpipe coming out from building going into drain.

Picture 4: Lines coming out from building were untraceable. Direct connected and used dropped box method to locate lines.

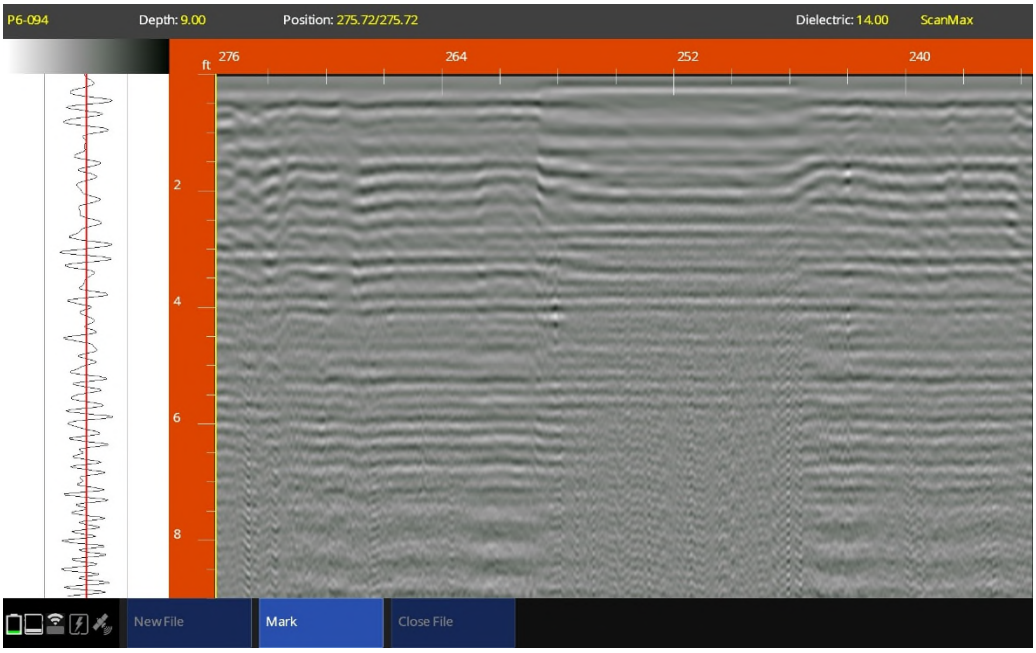
Picture 5: Sewer manhole lines did not lead within scope.

Picture 6: Electrical conduit from building going into security post.

Picture 7: Electrical lines running along cones.

Picture 8: Electrical from guard post going towards electrical gate.

Picture 9: Electrical conduit running g along driveway



Picture 10: Data shot of GPR penetration on asphalt.

CLOSING

GPRS, Inc. has been in business since 2001, specializing in underground storage tank location, concrete scanning, utility locating, and shallow void detection for projects throughout the United States. I encourage you to visit our website (www.gprsinc.com) and contact any of the numerous references listed.

GPRS appreciates the opportunity to offer our services, and we look forward to continuing to work with you on future projects. Please feel free to contact us for additional information or with any questions you may have regarding this report.

Signed,

Larklin Bryan
Project Manager—NYC

Direct: 646-866-4225

Larklin.bryan@gprsinc.com

www.gprsinc.com

N

GPRS

TERMS AND CONDITIONS

1. THIS DRAWING IS INTENDED TO DOCUMENT MARKINGS AND COMMENTS COLLECTED BY GROUND PENETRATING RADAR SYSTEMS (GPRS). GPRS CANNOT GUARANTEE IT WILL BE ABLE TO LOCATE ALL UTILITIES OR OTHER SUBSURFACE FEATURES ON SITE. ALL FINDINGS ARE SUBJECT TO THE TERMS AND CONDITIONS THAT CAN BE VIEWED WITH THE LINK BELOW:

   https://m.gp-radar.com/terms-conditions

2. GPRS DOES NOT PROVIDE GEOPHYSICAL, GEOLOGICAL, LAND SURVEYING, OR ENGINEERING SERVICES.

3. FOR ADDITIONAL INFORMATION REGARDING FINDINGS AND EQUIPMENT USED, SEE THE "JOB SUMMARY REPORT" THAT WAS SUBMITTED VIA EMAIL FOLLOWING COMPLETION OF FIELD WORK.

4. PRIVATE UTILITY LOCATING IS NEVER A REPLACEMENT FOR ONE CALL/811 SERVICES. STATE LAW REQUIRES 811 TO BE CALLED PRIOR TO ANY AND ALL EXCAVATION ACTIVITIES.

LEGEND

- C — COMMUNICATION
- E — ELECTRICAL
- ST — STORM
- D= — DEPTH

0 50' 100' 200'

811 Know what's **below.** **Call** before you dig.

GPRS IS NOT AFFILIATED WITH 811 BUT DOES RECOMMEND THAT THE SERVICE IS USED ON EVERY PROJECT IN ADDITION TO OUR OWN. SEE NOTE #4 ABOVE.

FOR INFORMATION ONLY

GPRS UTILITY FINDINGS MAP

PREPARED FOR:
ARCADIS

LOCATION:
NATIONAL GRID
1125 BROADWAY
ALBANY, NY 12204

DRAWN BY: DOUG.BEVAN

PROJECT MANAGER:
LARKLIN BRYAN
646-866-4225
LARKLIN.BRYAN@GPRSINC.COM

DATE	10/15/2020		
DRAWING NO.	1	REV.	0

C:\USERS\DOUG.BEVAN\ONEDRIVE - GPRS\PROJECTS\219235\CAD\WA219235_EX01.DGN

TERMS AND CONDITIONS

1. THIS DRAWING IS INTENDED TO DOCUMENT MARKINGS AND COMMENTS COLLECTED BY GROUND PENETRATING RADAR SYSTEMS (GPRS). GPRS CANNOT GUARANTEE IT WILL BE ABLE TO LOCATE ALL UTILITIES OR OTHER SUBSURFACE FEATURES ON SITE. ALL FINDINGS ARE SUBJECT TO THE TERMS AND CONDITIONS THAT CAN BE VIEWED WITH THE LINK BELOW:

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LEGEND

- C — COMMUNICATION
- E — ELECTRICAL
- ST — STORM
- D= — DEPTH

0 15' 30'

811 Know what's below. Call before you dig.

GPRS IS NOT AFFILIATED WITH 811 BUT DOES RECOMMEND THAT THE SERVICE IS USED ON EVERY PROJECT IN ADDITION TO OUR OWN. SEE NOTE #4 ABOVE.

FOR INFORMATION ONLY

GPRS UTILITY FINDINGS MAP

PREPARED FOR:
ARCADIS

LOCATION:
NATIONAL GRID
1125 BROADWAY
ALBANY, NY 12204

DRAWN BY: DOUG.BEVAN

PROJECT MANAGER:
LARKLIN BRYAN
646-866-4225
LARKLIN.BRYAN@GPRSINC.COM

DATE	10/15/2020		
DRAWING NO.	2	REV.	0

C:\USERS\DOUG.BEVAN\ONEDRIVE - GPRS\PROJECTS\219235\CAD\WA219235_EX01.DGN

National Ground Penetrating Radar Service, Inc.
Corporate Headquarters
8400 Normandale Lake Blvd, Suite 920
Minneapolis, Minnesota 55437
Tel: (952) 445-9040
Fax: (952) 445-9046
TF: (877) 556-4777
www.nationalgpr.com

UTILITY CLEARANCE REPORT

REPORTED TO:
ARCADIS U.S., Inc.
110 West Fayette Street, One Lincoln Center, Suite 300
Syracuse, New York 13202

PROJECT LOCATION:
National Grid Facility
1118 Broadway Street
Albany, New York

ATTN: David Cornell /
david.cornell@arcadis.com
CLIENT PROJECT NO:
B0036648.1401.00006
DATE: August 20, 2017

NGPRS PROJECT NO: 177550

INTRODUCTION

Arcadis U.S., Inc. (ARCADIS) retained National Ground Penetrating Radar Service, Inc. (NGPRS) to perform a Ground Penetrating Radar (GPR), and Electro-Magnetic-Induction (EMI) exploration to locate underground utilities prior to drilling activities the above referenced site.

EQUIPMENT

A Ground Penetrating Radar (GPR) system, and 400 MHz radar antenna (Figure 1) was used in the collection of the radar scans onsite. The radar antenna is pushed/pulled across the surface and then scrolled back along a transect to indicate the location of reflectors. (Figure 2) The profile scans are saved to an internal hard drive, and can be viewed on and off site. Once a reflector is encountered by the transmitting signal, it is reflected to the receiver and no further penetration beyond that point is visible in the radar scan. The maximum depth of the radar signal can be 9-12 feet; however, the maximum allowable depth penetration was less due to unfavorable regional soil conditions.

Figure 1: Ground Penetrating Radar equipment.

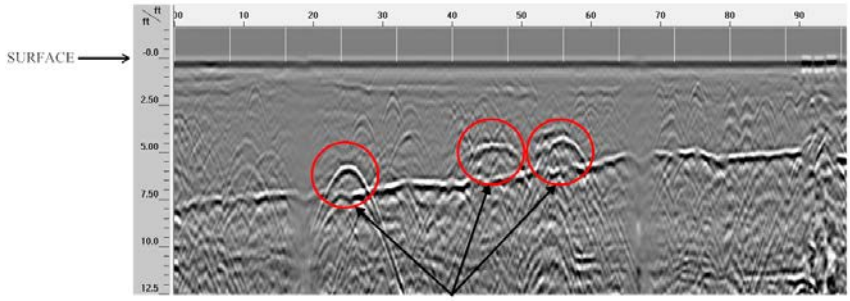


Figure 2: GPR data example showing reflectors circled in red.

Additionally, an Electro Magnetic Induction device was used to passively detect live power/data signals, and a transmitter was attached to pipes to induce traceable signals for locating to a maximum depth of fifteen (15) feet. (Figure 3)

Figure 3: Electro Magnetic Induction Equipment

All located utilities were marked on the surface in accordance with American Public Works Association (APWA) standard color code markings.

Utility locations were memorialized using a Trimble© GPS system with sub-meter accuracy capabilities.

RESULTS

NGPRS personnel performed the site survey on August 14 through 18, 2017. Locating was completed on an exterior, approximately six (6) acre area. Utility locations are shown on attached Exhibit A. As an attachment to this report, the client is provided GPS survey locations in the following electronic format(s): Google Earth (.kmz), AutoCad (.csv) and AutoCad (shape) and were recorded using the WGS1984 latitude/longitude coordinate system. Geotagged digital photograph(s) are visible on each survey point, and can be viewed by left clicking on each recorded survey point in the Google Earth format. The electronic formats can be downloaded from a client dedicated, secure website. To access the website, please visit:

https://www.dropbox.com/sh/arcfqpyp4ljbpw3/AADxKGxCFvlbepIkQPoJ5DOQa?dl=0

REQUIREMENTS

It is required to use soft dig techniques or hydro excavation if excavating within three (3) feet of any identified underground utility to verify utility composition, location, elevation, and diameter.

LIMITATIONS

GPR cannot determine target diameters or composition of reflectors. The results and interpretations of the exploration performed for the client should not be considered an absolute representation of the underlying subsurface conditions or targets, but instead as an exploration yet to be verified.

Our authorized work scope was limited to our observations in the requested areas only. As such, our conclusions and recommendations pertain only to those areas observed. Should conditions differing from those documented by NGPRS at the time our work be found in the future, NGPRS reserves the right to review our conclusions and recommendations, and modify them accordingly.

STANDARD OF CARE

The work performed by National Ground Penetrating Radar Service, Inc. has been conducted in accordance with ASTM 6432-99, ASCE 38-02, manufacturer recommendations, and the level of skill and care ordinarily exercised by other members of the profession currently practicing in this area.

REMARKS

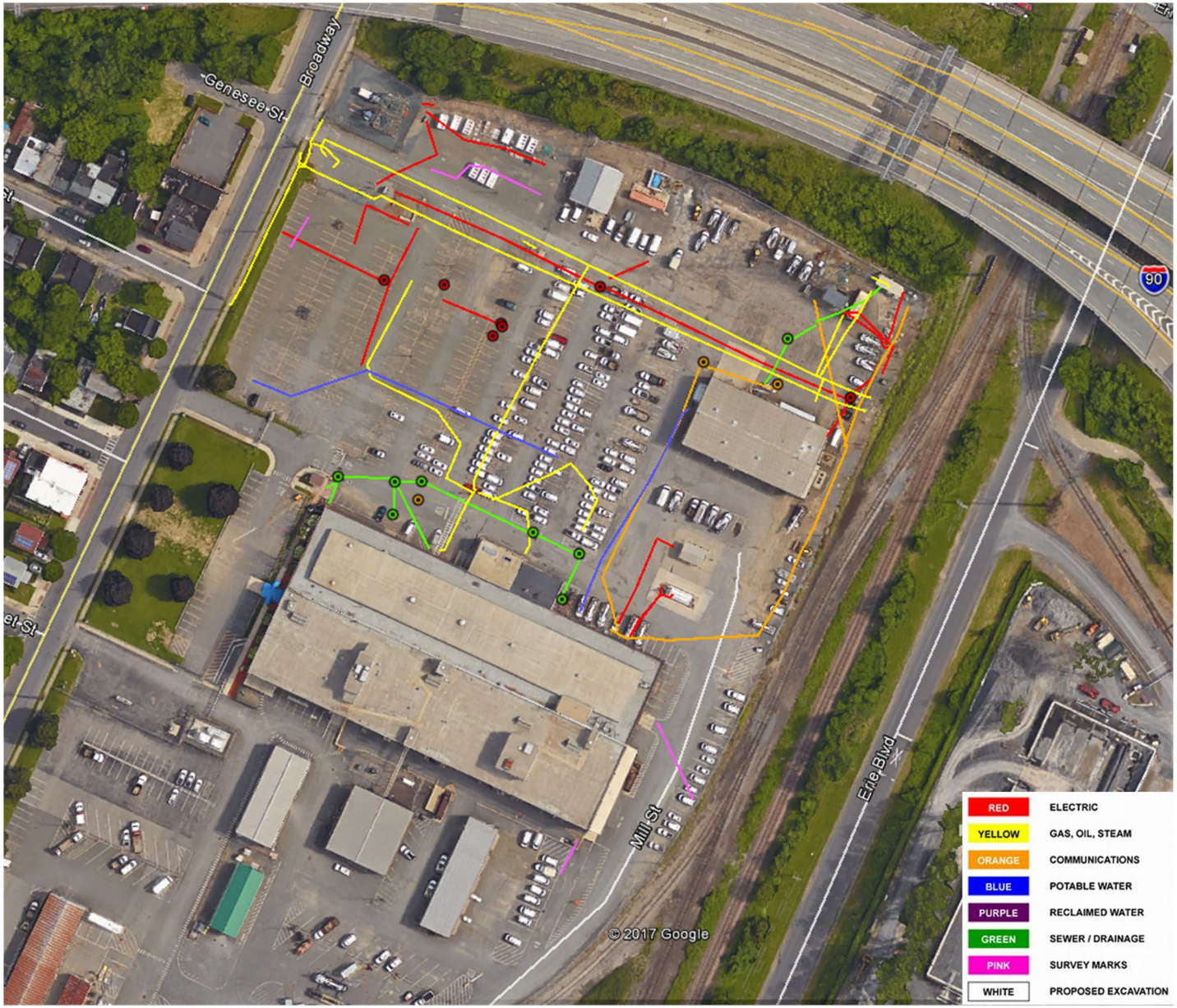
We appreciate the opportunity to assist you on this project. If you have any questions regarding this report or our services, feel free to contact us.

NATIONAL GROUND PENETRATING RADAR SERVICE, INC.

RAY WAGNER

_____

Ray Wagner, PG
Senior Geologist
Toll Free: (877) 556-4777
Ray.wagner@nationalgpr.com



National Ground Penetrating Radar Service, Inc.
Corporate Headquarters
8400 Normandale Lake Blvd, Suite 920
Minneapolis, Minnesota 55437
Office: (952) 445-9040
Fax: (952) 445-9046
www.nationalgpr.com

SHEET TITLE

UTILITY LOCATE RESULTS
National Grid Facility
1118 Broadway Street
Albany, New York

NOTES

Pink - Unknown Utility

DRAWING CONTROL

PROJECT NO.:	177550
ISSUE DATE:	8/20/2017
DRAWN BY:	**RW**
CHECKED BY:	
APPROVED BY:	JJL

DRAWING NO..	**EXHIBIT**
	A

RTE. 90 (EASTBOUND)

BROADWAY

34.5 KV TRANSMISSION LINES AND ELECTRICAL DISTRIBUTION LINES (MULTIPLE UNDERGROUND LINES ALONG BROADWAY AND CONNECTING WITH SUBSTATION)

6' C.L. FENCE

APPROXIMATE LOCATIONS OF VERIZON SHEDS

ABAND. STORM SEWER PIPE

TERMINATION PAD

UNDERGROUND SERVICE VAULT

HTS CONTROL BUILDING

MICROWAVE TOWER

7' C.L. FENCE

10' C.L. FENCE

34.5 KV ELECTRICAL SUBSTATION

14 - INCH MEDIUM PRESSURE GAS LINE

GAS REGULATOR STATION

GAS PRESSURE RELIEF VALVES

EMH-2

16 - INCH GAS DISTRIBUTION LINE

STEEL GUARDRAIL

MACADAM

GAS FEED FOR VEHICLE REFUELING STATION

EMH-1

VEHICLE MAINTENANCE BUILDING

MACADAM PARKING LOT

PARKING

ABOVEGROUND DIESEL TANK

CONC. GAS ISLAND

CB-17

8"ø PLASTIC

8"ø VCP

CB-18

CB-19

ABANDONED 6"ø STORM SEWER

4"ø STORM SEWER

CB-16

CB-15

GUARD HOUSE

STEEL

12"ø VCP

SIDING

LEGEND:

- APPROXIMATE LOCATION OF HIGH TEMPERATURE SUPERCONDUCTIVE CABLE
- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- APPROXIMATE PROPERTY LINE
- UTILITY POLE
- CB — EXISTING CATCH BASIN
- D — EXISTING STORM SEWER MANHOLE
- S — EXISTING SANITARY MANHOLE
- E — EXISTING ELECTRICAL MANHOLE
- T — EXISTING TELEPHONE MANHOLE
- ? — EXISTING UNKNOWN UTILITY MANHOLE
- D — STORM SEWER
- S — SANITARY SEWER
- T — TELEPHONE LINE
- E — ELECTRICAL LINE
- E — UNDERGROUND 34.5 KV ELECTRICAL TRANSMISSION LINE
- G — GAS LINE
- W — WATER LINE
- C — CABLE LINE
- UNKNOWN UTILITY

NOTES:

1. BASE MAP (INCLUDING BUILDING LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29736-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP – INDEX SHEET.
2. LOCATIONS OF UNDERGROUND UTILITIES (INCLUDING ON-SITE STORM SEWERS, SANITARY SEWERS, TELEPHONE LINES, ELECTRICAL LINES, GAS LINES, WATER LINES, AND CABLE) WERE DIGITIZED FROM NMPC DRAWING NO. D-29734-E, FILE INDEX NO. 20.3-A1.1-B2, DATED JUNE 27, 1994, ENTITLED NORTH ALBANY SERVICE CENTER SITE PLAN – PAVING (OUTSIDE FENCE). LOCATION OF UNDERGROUND TELEPHONE LINES, ELECTRICAL LINES, GAS LINES, AND CABLE LINES WERE UPDATED BASED ON ELECTROMAGNETIC UTILITY SURVEY CONDUCTED BY UNDERGROUND SERVICES, INC. DURING OCTOBER 2012. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MUST BE DETERMINED/CONFIRMED PRIOR TO IMPLEMENTING SUBSURFACE WORK ACTIVITIES.
3. LOCATIONS OF MANHOLES AND CATCH BASINS WERE OBTAINED FROM SURVEYS CONDUCTED BY NMPC DURING JULY/AUGUST 1997 AND NATIONAL GRID DURING OCTOBER 2012.
4. LOCATIONS OF OFF-SITE STORM AND SANITARY SEWERS WERE DIGITIZED FROM CITY OF ALBANY DRAWINGS AND ARE APPROXIMATE.

0 30' 60'
GRAPHIC SCALE

NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
FEASIBILITY STUDY REPORT

UTILITY LOCATION MAP

ARCADIS

FIGURE
1-3

CITY: SYRACUSE NY DIV/GROUP: ENV/IM-DIV DB: R BASSETT, R. ALLEN LD:(Opt) PIC: T. YOUNG PM: M. JONES TM: M. JONES TR: J. GOLUBSKI LYR:(On)=*;OFF=*REF*
G:\ENV\CAD\SYRACUSE\ACTIVE\36648\11400002\DWG\FS-REPORT\36648B26.DWG LAYOUT: 1-3 SAVED: 12/28/2015 11:19 AM ACADVER: 19.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 12/28/2015 11:19 AM BY: ALLEN, ROYCE
XREFS: 36648X03 36648XDL IMAGES: PROJECTNAME: ---

ATTACHMENT 4

Laboratory Analytical Data Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-175528-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. John Brussel

Authorized for release by:
10/7/2020 4:15:04 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

John Schove, Project Manager II
(716)504-9838
John.Schove@Eurofinset.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-175528-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-175528-1

Comments
No additional comments.

Receipt
The samples were received on 9/24/2020 8:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.1º C.

Receipt Exceptions

A revised chain of custody (COC) was received after the samples arrived at the laboratory. The revised COC canceled all analyses on samples SB-206 (10") (480-175528-2) and SB-202 (10") (480-175528-4)

GC/MS VOA
Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-551429 recovered above the upper control limit for Trichlorofluoromethane and Vinyl chloride. The sample(s) associated with this CCVIS were non-detect for the affected analytes; therefore, the data have been reported. The associated sample is impacted: SB-208 (10") (480-175528-3).

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-551436 and analytical batch 480-551429 recovered outside control limits for the following analyte: Trichlorofluoromethane. This analyte was biased high in the LCS and was not detected in the associated sample(s); therefore, the data have been reported. The associated sample is: SB-208 (10") (480-175528-3).

Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-551556 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,2,4-Trichlorobenzene, Carbon tetrachloride, Dibromochloromethane and Tetrachloroethene. The samples associated with this CCVIS were non-detect for the affected analytes; therefore, the data have been reported. The associated sample is impacted: SB-204 (10") (480-175528-1).

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-551501 and analytical batch 480-551556 recovered outside control limits for the following analytes: Cyclohexane, Isopropylbenzene and Tetrachloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated sample is: SB-204 (10") (480-175528-1).

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

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-551234 recovered outside acceptance criteria, low biased, for 4-Nitrophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: SB-204 (10") (480-175528-1) and SB-208 (10") (480-175528-3). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: SB-208 (10") (480-175528-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: SB-204 (10") (480-175528-1). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

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

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

Job ID: 480-175528-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

GC Semi VOA
Method 8082A: The continuing calibration verification (CCV) associated with batch 480-551192 recovered above the upper control limit for PCB-1221. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SB-204 (10") (480-175528-1) and SB-208 (10") (480-175528-3).

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

Metals
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. SB-204 (10") (480-175528-1), SB-208 (10") (480-175528-3), (LCSSRM 480-551368/2-A) and (MB 480-551368/1-A)

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

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

Organic Prep
Method 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: SB-204 (10") (480-175528-1) and SB-206 (10") (480-175528-2). The reporting limits (RLs) are elevated proportionately.

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

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-175528-1
Project/Site: National Grid - North Albany Project

Client Sample ID: SB-204 (10")
Lab Sample ID: 480-175528-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C6-C10)	1.3		1.2	0.33	mg/Kg	1	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	40		18	5.4	mg/Kg	1	☼	8015D	Total/NA
Aluminum	10000		10.5	4.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	7.3		2.1	0.42	mg/Kg	1	☼	6010C	Total/NA
Barium	72.1	^	0.53	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.50		0.21	0.030	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.077	J	0.21	0.032	mg/Kg	1	☼	6010C	Total/NA
Calcium	9090		52.7	3.5	mg/Kg	1	☼	6010C	Total/NA
Chromium	14.3		0.53	0.21	mg/Kg	1	☼	6010C	Total/NA
Cobalt	8.1		0.53	0.053	mg/Kg	1	☼	6010C	Total/NA
Copper	33.9		1.1	0.22	mg/Kg	1	☼	6010C	Total/NA
Iron	20800		10.5	3.7	mg/Kg	1	☼	6010C	Total/NA
Lead	163		1.1	0.25	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3750		21.1	0.98	mg/Kg	1	☼	6010C	Total/NA
Manganese	383	B	0.21	0.034	mg/Kg	1	☼	6010C	Total/NA
Nickel	19.4		5.3	0.24	mg/Kg	1	☼	6010C	Total/NA
Potassium	1780		31.6	21.1	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.60	J	4.2	0.42	mg/Kg	1	☼	6010C	Total/NA
Sodium	677		148	13.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	20.7		0.53	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	81.2		2.1	0.67	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.62		0.020	0.0080	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-208 (10")
Lab Sample ID: 480-175528-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	670	J	3800	380	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	720	J	3800	610	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	830	J	3800	410	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	930	J	3800	560	ug/Kg	20	☼	8270D	Total/NA
Pyrene	1200	J	3800	450	ug/Kg	20	☼	8270D	Total/NA
GRO (C6-C10)	2.7		2.1	0.55	mg/Kg	1	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	70		19	5.6	mg/Kg	1	☼	8015D	Total/NA
Aluminum	8300		11.6	5.1	mg/Kg	1	☼	6010C	Total/NA
Arsenic	8.8		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	487	^	0.58	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.65		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.20	J	0.23	0.035	mg/Kg	1	☼	6010C	Total/NA
Calcium	3250		57.9	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	12.9		0.58	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.7		0.58	0.058	mg/Kg	1	☼	6010C	Total/NA
Copper	30.5		1.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	18600		11.6	4.1	mg/Kg	1	☼	6010C	Total/NA
Lead	300		1.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Magnesium	2320		23.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	202	B	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	23.8		5.8	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	1240		34.7	23.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	2290		162	15.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	19.3		0.58	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	69.8		2.3	0.74	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: SB-208 (10") (Continued)

Lab Sample ID: 480-175528-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.19		0.022	0.0089	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Job ID: 480-175528-1
Project/Site: National Grid - North Albany Project

Client Sample ID: SB-204 (10")
Lab Sample ID: 480-175528-1
Date Collected: 09/23/20 11:30
Matrix: Solid
Date Received: 09/24/20 08:00
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		6.5	0.47	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
1,1,2,2-Tetrachloroethane	ND		6.5	1.1	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.5	1.5	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
1,1,2-Trichloroethane	ND		6.5	0.84	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
1,1-Dichloroethane	ND		6.5	0.79	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
1,1-Dichloroethene	ND		6.5	0.79	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
1,2,4-Trichlorobenzene	ND		6.5	0.39	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
1,2-Dibromo-3-Chloropropane	ND		6.5	3.2	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
1,2-Dichlorobenzene	ND		6.5	0.51	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
1,2-Dichloroethane	ND		6.5	0.33	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
1,2-Dichloropropane	ND		6.5	3.2	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
1,3-Dichlorobenzene	ND		6.5	0.33	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
1,4-Dichlorobenzene	ND		6.5	0.91	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
2-Butanone (MEK)	ND		32	2.4	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
2-Hexanone	ND		32	3.2	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
4-Methyl-2-pentanone (MIBK)	ND		32	2.1	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Acetone	ND		32	5.5	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Benzene	ND		6.5	0.32	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Bromoform	ND		6.5	3.2	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Bromomethane	ND		6.5	0.58	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Carbon disulfide	ND		6.5	3.2	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Carbon tetrachloride	ND		6.5	0.63	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Chlorobenzene	ND		6.5	0.86	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Dibromochloromethane	ND		6.5	0.83	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Chloroethane	ND		6.5	1.5	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Chloroform	ND		6.5	0.40	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Chloromethane	ND		6.5	0.39	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
cis-1,2-Dichloroethene	ND		6.5	0.83	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Cyclohexane	ND	*	6.5	0.91	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Bromodichloromethane	ND		6.5	0.87	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Dichlorodifluoromethane	ND		6.5	0.54	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Ethylbenzene	ND		6.5	0.45	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
1,2-Dibromoethane	ND		6.5	0.83	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Isopropylbenzene	ND	*	6.5	0.98	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Methyl acetate	ND		32	3.9	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Methyl tert-butyl ether	ND		6.5	0.64	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Methylcyclohexane	ND		6.5	0.98	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Methylene Chloride	ND		6.5	3.0	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Tetrachloroethene	ND	*	6.5	0.87	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Toluene	ND		6.5	0.49	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
trans-1,2-Dichloroethene	ND		6.5	0.67	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
trans-1,3-Dichloropropene	ND		6.5	2.9	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Trichloroethene	ND		6.5	1.4	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Trichlorofluoromethane	ND		6.5	0.61	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Vinyl chloride	ND		6.5	0.79	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Xylenes, Total	ND		13	1.1	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
cis-1,3-Dichloropropene	ND		6.5	0.93	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1
Styrene	ND		6.5	0.32	ug/Kg	☼	09/24/20 11:00	09/29/20 00:46	1

Client: ARCADIS U.S. Inc
Job ID: 480-175528-1
Project/Site: National Grid - North Albany Project

Client Sample ID: SB-204 (10")
Lab Sample ID: 480-175528-1
Date Collected: 09/23/20 11:30
Matrix: Solid
Date Received: 09/24/20 08:00
Percent Solids: 89.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*09/24/20 11:00*	*09/29/20 00:46*	*1*
4-Bromofluorobenzene (Surr)	*84*		*72 - 126*	*09/24/20 11:00*	*09/29/20 00:46*	*1*
Toluene-d8 (Surr)	*110*		*71 - 125*	*09/24/20 11:00*	*09/29/20 00:46*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*09/24/20 11:00*	*09/29/20 00:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		19000	2800	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
bis (2-chloroisopropyl) ether	ND		19000	3800	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
2,4,5-Trichlorophenol	ND		19000	5100	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
2,4,6-Trichlorophenol	ND		19000	3800	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
2,4-Dichlorophenol	ND		19000	2000	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
2,4-Dimethylphenol	ND		19000	4600	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
2,4-Dinitrophenol	ND		180000	87000	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
2,4-Dinitrotoluene	ND		19000	3900	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
2,6-Dinitrotoluene	ND		19000	2200	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
2-Chloronaphthalene	ND		19000	3100	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
2-Chlorophenol	ND		37000	3400	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
2-Methylnaphthalene	ND		19000	3800	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
2-Methylphenol	ND		19000	2200	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
2-Nitroaniline	ND		37000	2800	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
2-Nitrophenol	ND		19000	5300	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
3,3'-Dichlorobenzidine	ND		37000	22000	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
3-Nitroaniline	ND		37000	5200	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
4,6-Dinitro-2-methylphenol	ND		37000	19000	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
4-Bromophenyl phenyl ether	ND		19000	2700	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
4-Chloro-3-methylphenol	ND		19000	4700	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
4-Chloroaniline	ND		19000	4700	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
4-Chlorophenyl phenyl ether	ND		19000	2300	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
4-Methylphenol	ND		37000	2200	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
4-Nitroaniline	ND		37000	9900	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
4-Nitrophenol	ND		37000	13000	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Acenaphthene	ND		19000	2800	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Acenaphthylene	ND		19000	2400	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Acetophenone	ND		19000	2600	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Anthracene	ND		19000	4700	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Atrazine	ND		19000	6600	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Benzaldehyde	ND		19000	15000	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Benzo[a]anthracene	ND		19000	1900	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Benzo[a]pyrene	ND		19000	2800	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Benzo[b]fluoranthene	ND		19000	3000	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Benzo[g,h,i]perylene	ND		19000	2000	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Benzo[k]fluoranthene	ND		19000	2400	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Bis(2-chloroethoxy)methane	ND		19000	4000	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Bis(2-chloroethyl)ether	ND		19000	2400	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Bis(2-ethylhexyl) phthalate	ND		19000	6400	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Butyl benzyl phthalate	ND		19000	3100	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Caprolactam	ND		19000	5700	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Carbazole	ND		19000	2200	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Chrysene	ND		19000	4200	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10

Client Sample ID: SB-204 (10")
Lab Sample ID: 480-175528-1
Date Collected: 09/23/20 11:30
Matrix: Solid
Date Received: 09/24/20 08:00
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		19000	3200	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Di-n-octyl phthalate	ND		19000	2200	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Dibenz(a,h)anthracene	ND		19000	3300	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Dibenzofuran	ND		19000	2200	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Diethyl phthalate	ND		19000	2400	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Dimethyl phthalate	ND		19000	2200	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Fluoranthene	ND		19000	2000	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Fluorene	ND		19000	2200	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Hexachlorobenzene	ND		19000	2600	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Hexachlorobutadiene	ND		19000	2800	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Hexachlorocyclopentadiene	ND		19000	2600	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Hexachloroethane	ND		19000	2400	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Indeno[1,2,3-cd]pyrene	ND		19000	2300	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Isophorone	ND		19000	4000	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
N-Nitrosodi-n-propylamine	ND		19000	3200	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
N-Nitrosodiphenylamine	ND		19000	15000	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Naphthalene	ND		19000	2400	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Nitrobenzene	ND		19000	2100	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Pentachlorophenol	ND		37000	19000	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Phenanthrene	ND		19000	2800	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Phenol	ND		19000	2900	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10
Pyrene	ND		19000	2200	ug/Kg	☼	09/24/20 15:24	09/25/20 14:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*54 - 120*	*09/24/20 15:24*	*09/25/20 14:31*	*10*
2-Fluorobiphenyl	*93*		*60 - 120*	*09/24/20 15:24*	*09/25/20 14:31*	*10*
2-Fluorophenol	*0*	*X*	*52 - 120*	*09/24/20 15:24*	*09/25/20 14:31*	*10*
Nitrobenzene-d5	*81*		*53 - 120*	*09/24/20 15:24*	*09/25/20 14:31*	*10*
p-Terphenyl-d14	*96*		*79 - 130*	*09/24/20 15:24*	*09/25/20 14:31*	*10*
Phenol-d5	*80*		*54 - 120*	*09/24/20 15:24*	*09/25/20 14:31*	*10*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	**1.3**		1.2	0.33	mg/Kg	☼	09/28/20 08:59	09/28/20 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*110*		*46 - 156*	*09/28/20 08:59*	*09/28/20 11:55*	*1*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**40**		18	5.4	mg/Kg	☼	09/25/20 15:32	09/29/20 10:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*48 - 125*	*09/25/20 15:32*	*09/29/20 10:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.050	mg/Kg	☼	09/24/20 15:34	09/25/20 10:30	1
PCB-1221	ND		0.26	0.050	mg/Kg	☼	09/24/20 15:34	09/25/20 10:30	1
PCB-1232	ND		0.26	0.050	mg/Kg	☼	09/24/20 15:34	09/25/20 10:30	1
PCB-1242	ND		0.26	0.050	mg/Kg	☼	09/24/20 15:34	09/25/20 10:30	1

Client Sample ID: SB-204 (10")

Lab Sample ID: 480-175528-1
Date Collected: 09/23/20 11:30
Matrix: Solid
Date Received: 09/24/20 08:00
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		0.26	0.050	mg/Kg	☼	09/24/20 15:34	09/25/20 10:30	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	09/24/20 15:34	09/25/20 10:30	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	09/24/20 15:34	09/25/20 10:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*125*		*60 - 154*	*09/24/20 15:34*	*09/25/20 10:30*	*1*
Tetrachloro-m-xylene	*100*		*60 - 154*	*09/24/20 15:34*	*09/25/20 10:30*	*1*
DCB Decachlorobiphenyl	*115*		*65 - 174*	*09/24/20 15:34*	*09/25/20 10:30*	*1*
DCB Decachlorobiphenyl	*77*		*65 - 174*	*09/24/20 15:34*	*09/25/20 10:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		10.5	4.6	mg/Kg	☼	09/28/20 17:35	09/30/20 14:27	1
Antimony	ND		15.8	0.42	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Arsenic	**7.3**		2.1	0.42	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Barium	**72.1**	^	0.53	0.12	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Beryllium	**0.50**		0.21	0.030	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Cadmium	**0.077**	J	0.21	0.032	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Calcium	**9090**		52.7	3.5	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Chromium	**14.3**		0.53	0.21	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Cobalt	**8.1**		0.53	0.053	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Copper	**33.9**		1.1	0.22	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Iron	**20800**		10.5	3.7	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Lead	**163**		1.1	0.25	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Magnesium	**3750**		21.1	0.98	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Manganese	**383**	B	0.21	0.034	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Nickel	**19.4**		5.3	0.24	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Potassium	**1780**		31.6	21.1	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Selenium	**0.60**	J	4.2	0.42	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Silver	ND		0.63	0.21	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Sodium	**677**		148	13.7	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Thallium	ND		6.3	0.32	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Vanadium	**20.7**		0.53	0.12	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1
Zinc	**81.2**		2.1	0.67	mg/Kg	☼	09/28/20 17:35	09/29/20 19:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.62**		0.020	0.0080	mg/Kg	☼	09/25/20 13:46	09/25/20 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1	0.52	mg/Kg	☼	09/24/20 20:46	09/25/20 10:24	1

Client Sample ID: SB-208 (10")

Lab Sample ID: 480-175528-3
Date Collected: 09/23/20 13:50
Matrix: Solid
Date Received: 09/24/20 08:00
Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		15	1.1	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
1,1,2,2-Tetrachloroethane	ND		15	2.5	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1

Client: ARCADIS U.S. Inc
Job ID: 480-175528-1
Project/Site: National Grid - North Albany Project

Client Sample ID: SB-208 (10")
Lab Sample ID: 480-175528-3
Date Collected: 09/23/20 13:50
Matrix: Solid
Date Received: 09/24/20 08:00
Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15	3.5	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
1,1,2-Trichloroethane	ND		15	2.0	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
1,1-Dichloroethane	ND		15	1.9	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
1,1-Dichloroethene	ND		15	1.9	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
1,2,4-Trichlorobenzene	ND		15	0.93	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
1,2-Dibromo-3-Chloropropane	ND		15	7.7	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
1,2-Dichlorobenzene	ND		15	1.2	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
1,2-Dichloroethane	ND		15	0.77	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
1,2-Dichloropropane	ND		15	7.7	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
1,3-Dichlorobenzene	ND		15	0.79	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
1,4-Dichlorobenzene	ND		15	2.2	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
2-Butanone (MEK)	ND		77	5.6	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
2-Hexanone	ND		77	7.7	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
4-Methyl-2-pentanone (MIBK)	ND		77	5.0	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Acetone	ND		77	13	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Benzene	ND		15	0.75	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Bromoform	ND		15	7.7	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Bromomethane	ND		15	1.4	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Carbon disulfide	ND		15	7.7	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Carbon tetrachloride	ND		15	1.5	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Chlorobenzene	ND		15	2.0	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Dibromochloromethane	ND		15	2.0	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Chloroethane	ND		15	3.5	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Chloroform	ND		15	0.95	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Chloromethane	ND		15	0.93	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
cis-1,2-Dichloroethene	ND		15	2.0	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Cyclohexane	ND		15	2.2	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Bromodichloromethane	ND		15	2.1	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Dichlorodifluoromethane	ND		15	1.3	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Ethylbenzene	ND		15	1.1	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
1,2-Dibromoethane	ND		15	2.0	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Isopropylbenzene	ND		15	2.3	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Methyl acetate	ND		77	9.3	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Methyl tert-butyl ether	ND		15	1.5	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Methylcyclohexane	ND		15	2.3	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Methylene Chloride	ND		15	7.1	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Tetrachloroethene	ND		15	2.1	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Toluene	ND		15	1.2	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
trans-1,2-Dichloroethene	ND		15	1.6	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
trans-1,3-Dichloropropene	ND		15	6.8	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Trichloroethene	ND		15	3.4	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Trichlorofluoromethane	ND	*	15	1.5	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Vinyl chloride	ND		15	1.9	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Xylenes, Total	ND		31	2.6	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
cis-1,3-Dichloropropene	ND		15	2.2	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1
Styrene	ND		15	0.77	ug/Kg	☼	09/24/20 11:00	09/28/20 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*09/24/20 11:00*	*09/28/20 00:35*	*1*
4-Bromofluorobenzene (Surr)	*92*		*72 - 126*	*09/24/20 11:00*	*09/28/20 00:35*	*1*

Client Sample ID: SB-208 (10")
Lab Sample ID: 480-175528-3
Date Collected: 09/23/20 13:50
Matrix: Solid
Date Received: 09/24/20 08:00
Percent Solids: 88.6

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*71 - 125*	*09/24/20 11:00*	*09/28/20 00:35*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*09/24/20 11:00*	*09/28/20 00:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		3800	560	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
bis (2-chloroisopropyl) ether	ND		3800	770	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
2,4,5-Trichlorophenol	ND		3800	1000	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
2,4,6-Trichlorophenol	ND		3800	770	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
2,4-Dichlorophenol	ND		3800	410	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
2,4-Dimethylphenol	ND		3800	920	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
2,4-Dinitrophenol	ND		37000	18000	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
2,4-Dinitrotoluene	ND		3800	790	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
2,6-Dinitrotoluene	ND		3800	450	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
2-Chloronaphthalene	ND		3800	630	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
2-Chlorophenol	ND		7400	700	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
2-Methylnaphthalene	ND		3800	770	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
2-Methylphenol	ND		3800	450	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
2-Nitroaniline	ND		7400	560	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
2-Nitrophenol	ND		3800	1100	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
3,3'-Dichlorobenzidine	ND		7400	4500	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
3-Nitroaniline	ND		7400	1100	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
4,6-Dinitro-2-methylphenol	ND		7400	3800	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
4-Bromophenyl phenyl ether	ND		3800	540	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
4-Chloro-3-methylphenol	ND		3800	950	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
4-Chloroaniline	ND		3800	950	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
4-Chlorophenyl phenyl ether	ND		3800	470	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
4-Methylphenol	ND		7400	450	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
4-Nitroaniline	ND		7400	2000	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
4-Nitrophenol	ND		7400	2700	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Acenaphthene	ND		3800	560	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Acenaphthylene	ND		3800	500	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Acetophenone	ND		3800	520	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Anthracene	ND		3800	950	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Atrazine	ND		3800	1300	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Benzaldehyde	ND		3800	3000	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Benzo[a]anthracene	**670**	**J**	3800	380	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Benzo[a]pyrene	ND		3800	560	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Benzo[b]fluoranthene	**720**	**J**	3800	610	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Benzo[g,h,i]perylene	ND		3800	410	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Benzo[k]fluoranthene	ND		3800	500	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Bis(2-chloroethoxy)methane	ND		3800	810	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Bis(2-chloroethyl)ether	ND		3800	500	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Bis(2-ethylhexyl) phthalate	ND		3800	1300	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Butyl benzyl phthalate	ND		3800	630	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Caprolactam	ND		3800	1100	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Carbazole	ND		3800	450	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Chrysene	ND		3800	860	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Di-n-butyl phthalate	ND		3800	650	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20

Client Sample ID: SB-208 (10")
Lab Sample ID: 480-175528-3
Date Collected: 09/23/20 13:50
Matrix: Solid
Date Received: 09/24/20 08:00
Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		3800	450	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Dibenz(a,h)anthracene	ND		3800	680	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Dibenzofuran	ND		3800	450	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Diethyl phthalate	ND		3800	500	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Dimethyl phthalate	ND		3800	450	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Fluoranthene	**830**	**J**	3800	410	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Fluorene	ND		3800	450	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Hexachlorobenzene	ND		3800	520	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Hexachlorobutadiene	ND		3800	560	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Hexachlorocyclopentadiene	ND		3800	520	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Hexachloroethane	ND		3800	500	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Indeno[1,2,3-cd]pyrene	ND		3800	470	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Isophorone	ND		3800	810	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
N-Nitrosodi-n-propylamine	ND		3800	650	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
N-Nitrosodiphenylamine	ND		3800	3100	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Naphthalene	ND		3800	500	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Nitrobenzene	ND		3800	430	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Pentachlorophenol	ND		7400	3800	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Phenanthrene	**930**	**J**	3800	560	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Phenol	ND		3800	590	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20
Pyrene	**1200**	**J**	3800	450	ug/Kg	☼	09/24/20 15:24	09/25/20 15:21	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*99*		*54 - 120*	*09/24/20 15:24*	*09/25/20 15:21*	*20*
2-Fluorobiphenyl	*91*		*60 - 120*	*09/24/20 15:24*	*09/25/20 15:21*	*20*
2-Fluorophenol	*83*		*52 - 120*	*09/24/20 15:24*	*09/25/20 15:21*	*20*
Nitrobenzene-d5	*74*		*53 - 120*	*09/24/20 15:24*	*09/25/20 15:21*	*20*
p-Terphenyl-d14	*94*		*79 - 130*	*09/24/20 15:24*	*09/25/20 15:21*	*20*
Phenol-d5	*84*		*54 - 120*	*09/24/20 15:24*	*09/25/20 15:21*	*20*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	**2.7**		2.1	0.55	mg/Kg	☼	09/28/20 08:59	09/28/20 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*108*		*46 - 156*	*09/28/20 08:59*	*09/28/20 12:31*	*1*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**70**		19	5.6	mg/Kg	☼	09/25/20 15:32	09/29/20 10:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*48 - 125*	*09/25/20 15:32*	*09/29/20 10:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.052	mg/Kg	☼	09/24/20 15:34	09/25/20 10:55	1
PCB-1221	ND		0.26	0.052	mg/Kg	☼	09/24/20 15:34	09/25/20 10:55	1
PCB-1232	ND		0.26	0.052	mg/Kg	☼	09/24/20 15:34	09/25/20 10:55	1
PCB-1242	ND		0.26	0.052	mg/Kg	☼	09/24/20 15:34	09/25/20 10:55	1
PCB-1248	ND		0.26	0.052	mg/Kg	☼	09/24/20 15:34	09/25/20 10:55	1

Client Sample ID: SB-208 (10")
Lab Sample ID: 480-175528-3
Date Collected: 09/23/20 13:50
Matrix: Solid
Date Received: 09/24/20 08:00
Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		0.26	0.12	mg/Kg	☼	09/24/20 15:34	09/25/20 10:55	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	09/24/20 15:34	09/25/20 10:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*125*		*60 - 154*	*09/24/20 15:34*	*09/25/20 10:55*	*1*
Tetrachloro-m-xylene	*99*		*60 - 154*	*09/24/20 15:34*	*09/25/20 10:55*	*1*
DCB Decachlorobiphenyl	*119*		*65 - 174*	*09/24/20 15:34*	*09/25/20 10:55*	*1*
DCB Decachlorobiphenyl	*78*		*65 - 174*	*09/24/20 15:34*	*09/25/20 10:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8300**		11.6	5.1	mg/Kg	☼	09/28/20 17:35	09/30/20 14:31	1
Antimony	ND		17.4	0.46	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Arsenic	**8.8**		2.3	0.46	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Barium	**487**	^	0.58	0.13	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Beryllium	**0.65**		0.23	0.032	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Cadmium	**0.20**	J	0.23	0.035	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Calcium	**3250**		57.9	3.8	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Chromium	**12.9**		0.58	0.23	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Cobalt	**7.7**		0.58	0.058	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Copper	**30.5**		1.2	0.24	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Iron	**18600**		11.6	4.1	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Lead	**300**		1.2	0.28	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Magnesium	**2320**		23.2	1.1	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Manganese	**202**	B	0.23	0.037	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Nickel	**23.8**		5.8	0.27	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Potassium	**1240**		34.7	23.2	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Selenium	ND		4.6	0.46	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Silver	ND		0.69	0.23	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Sodium	**2290**		162	15.1	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Thallium	ND		6.9	0.35	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Vanadium	**19.3**		0.58	0.13	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1
Zinc	**69.8**		2.3	0.74	mg/Kg	☼	09/28/20 17:35	09/29/20 19:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.19**		0.022	0.0089	mg/Kg	☼	09/25/20 13:46	09/25/20 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.96	0.46	mg/Kg	☼	09/24/20 20:46	09/25/20 10:27	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-175528-1
Project/Site: National Grid - North Albany Project

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-175528-1	SB-204 (10")	103	84	110	99
480-175528-3	SB-208 (10")	106	92	98	104
LCS 480-551436/22-A	Lab Control Sample	102	101	93	106
LCS 480-551501/1-A	Lab Control Sample	97	97	104	98
MB 480-551436/2-A	Method Blank	103	99	93	103
MB 480-551501/2-A	Method Blank	101	93	100	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(79-130)	(54-120)
480-175528-1	SB-204 (10")	0 X	93	0 X	81	96	80
480-175528-3	SB-208 (10")	99	91	83	74	94	84
LCS 480-551103/2-A	Lab Control Sample	79	94	85	78	103	87
MB 480-551103/1-A	Method Blank	69	91	86	79	117	88

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		TFT2
Lab Sample ID	Client Sample ID	(46-156)
480-175528-1	SB-204 (10")	110
480-175528-3	SB-208 (10")	108
LCS 480-551469/2-A	Lab Control Sample	102
LCSD 480-551469/3-A	Lab Control Sample Dup	101
MB 480-551469/1-A	Method Blank	105

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-175528-1
Project/Site: National Grid - North Albany Project

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH
Lab Sample ID	Client Sample ID	(48-125)
480-175528-1	SB-204 (10")	91
480-175528-3	SB-208 (10")	94
LCS 480-551310/2-A	Lab Control Sample	84
MB 480-551310/1-A	Method Blank	77

Surrogate Legend

OTPH = o-Terphenyl

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

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-175528-1	SB-204 (10")	100	125	77	115
480-175528-3	SB-208 (10")	99	125	78	119
LCS 480-551105/2-A	Lab Control Sample	129	155 X	125	163
MB 480-551105/1-A	Method Blank	115	136	114	146

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

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

Lab Sample ID: MB 480-551436/2-A
Matrix: Solid
Analysis Batch: 551429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551436

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
2-Hexanone	ND		25	2.5	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Acetone	ND		25	4.2	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Benzene	ND		5.0	0.25	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Bromoform	ND		5.0	2.5	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Bromomethane	ND		5.0	0.45	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Chloroethane	ND		5.0	1.1	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Chloroform	ND		5.0	0.31	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Chloromethane	ND		5.0	0.30	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Cyclohexane	ND		5.0	0.70	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Methyl acetate	ND		25	3.0	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Toluene	ND		5.0	0.38	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Trichloroethene	ND		5.0	1.1	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Xylenes, Total	ND		10	0.84	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		09/27/20 20:00	09/27/20 22:27	1
Styrene	ND		5.0	0.25	ug/Kg		09/27/20 20:00	09/27/20 22:27	1

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

Lab Sample ID: MB 480-551436/2-A
Matrix: Solid
Analysis Batch: 551429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551436

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*09/27/20 20:00*	*09/27/20 22:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*09/27/20 20:00*	*09/27/20 22:27*	*1*
Toluene-d8 (Surr)	*93*		*71 - 125*	*09/27/20 20:00*	*09/27/20 22:27*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*	*09/27/20 20:00*	*09/27/20 22:27*	*1*

Lab Sample ID: LCS 480-551436/22-A
Matrix: Solid
Analysis Batch: 551429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	58.4		ug/Kg		117	77 - 121
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.3		ug/Kg		111	60 - 140
1,1,2-Trichloroethane	50.0	45.8		ug/Kg		92	78 - 122
1,1-Dichloroethane	50.0	52.7		ug/Kg		105	73 - 126
1,1-Dichloroethene	50.0	53.4		ug/Kg		107	59 - 125
1,2,4-Trichlorobenzene	50.0	49.6		ug/Kg		99	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	50.4		ug/Kg		101	63 - 124
1,2-Dichlorobenzene	50.0	44.8		ug/Kg		90	75 - 120
1,2-Dichloroethane	50.0	51.3		ug/Kg		103	77 - 122
1,2-Dichloropropane	50.0	52.5		ug/Kg		105	75 - 124
1,3-Dichlorobenzene	50.0	45.8		ug/Kg		92	74 - 120
1,4-Dichlorobenzene	50.0	45.6		ug/Kg		91	73 - 120
2-Butanone (MEK)	250	273		ug/Kg		109	70 - 134
2-Hexanone	250	248		ug/Kg		99	59 - 130
4-Methyl-2-pentanone (MIBK)	250	239		ug/Kg		96	65 - 133
Acetone	250	292		ug/Kg		117	61 - 137
Benzene	50.0	53.5		ug/Kg		107	79 - 127
Bromoform	50.0	43.4		ug/Kg		87	68 - 126
Bromomethane	50.0	60.3		ug/Kg		121	37 - 149
Carbon disulfide	50.0	47.9		ug/Kg		96	64 - 131
Carbon tetrachloride	50.0	60.3		ug/Kg		121	75 - 135
Chlorobenzene	50.0	45.6		ug/Kg		91	76 - 124
Dibromochloromethane	50.0	51.1		ug/Kg		102	76 - 125
Chloroethane	50.0	61.3		ug/Kg		123	69 - 135
Chloroform	50.0	52.7		ug/Kg		105	80 - 120
Chloromethane	50.0	57.4		ug/Kg		115	63 - 127
cis-1,2-Dichloroethene	50.0	53.9		ug/Kg		108	81 - 120
Cyclohexane	50.0	56.1		ug/Kg		112	65 - 120
Bromodichloromethane	50.0	55.9		ug/Kg		112	80 - 122
Dichlorodifluoromethane	50.0	62.3		ug/Kg		125	57 - 142
Ethylbenzene	50.0	46.5		ug/Kg		93	80 - 120
1,2-Dibromoethane	50.0	46.4		ug/Kg		93	78 - 120
Isopropylbenzene	50.0	47.2		ug/Kg		94	72 - 120
Methyl acetate	100	111		ug/Kg		111	55 - 136
Methyl tert-butyl ether	50.0	52.5		ug/Kg		105	63 - 125
Methylcyclohexane	50.0	58.6		ug/Kg		117	60 - 140
Methylene Chloride	50.0	49.4		ug/Kg		99	61 - 127

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

Lab Sample ID: LCS 480-551436/22-A
Matrix: Solid
Analysis Batch: 551429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	50.0	50.5		ug/Kg		101	74 - 122
Toluene	50.0	46.4		ug/Kg		93	74 - 128
trans-1,2-Dichloroethene	50.0	53.3		ug/Kg		107	78 - 126
trans-1,3-Dichloropropene	50.0	47.9		ug/Kg		96	73 - 123
Trichloroethene	50.0	55.8		ug/Kg		112	77 - 129
Trichlorofluoromethane	50.0	73.5	*	ug/Kg		147	65 - 146
Vinyl chloride	50.0	64.9		ug/Kg		130	61 - 133
cis-1,3-Dichloropropene	50.0	54.7		ug/Kg		109	80 - 120
Styrene	50.0	43.7		ug/Kg		87	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*
4-Bromofluorobenzene (Surr)	*101*		*72 - 126*
Toluene-d8 (Surr)	*93*		*71 - 125*
Dibromofluoromethane (Surr)	*106*		*60 - 140*

Lab Sample ID: MB 480-551501/2-A
Matrix: Solid
Analysis Batch: 551556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
2-Hexanone	ND		25	2.5	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Acetone	ND		25	4.2	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Benzene	ND		5.0	0.25	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Bromoform	ND		5.0	2.5	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Bromomethane	ND		5.0	0.45	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Chloroethane	ND		5.0	1.1	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Chloroform	ND		5.0	0.31	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Chloromethane	ND		5.0	0.30	ug/Kg		09/28/20 11:29	09/28/20 20:54	1

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

Lab Sample ID: MB 480-551501/2-A
Matrix: Solid
Analysis Batch: 551556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Cyclohexane	ND		5.0	0.70	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Methyl acetate	ND		25	3.0	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Toluene	ND		5.0	0.38	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Trichloroethene	ND		5.0	1.1	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Xylenes, Total	ND		10	0.84	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Styrene	ND		5.0	0.25	ug/Kg		09/28/20 11:29	09/28/20 20:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*09/28/20 11:29*	*09/28/20 20:54*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*	*09/28/20 11:29*	*09/28/20 20:54*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*09/28/20 11:29*	*09/28/20 20:54*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 140*	*09/28/20 11:29*	*09/28/20 20:54*	*1*

Lab Sample ID: LCS 480-551501/1-A
Matrix: Solid
Analysis Batch: 551556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	57.8		ug/Kg		116	77 - 121
1,1,2,2-Tetrachloroethane	50.0	54.5		ug/Kg		109	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	62.7		ug/Kg		125	60 - 140
1,1,2-Trichloroethane	50.0	53.3		ug/Kg		107	78 - 122
1,1-Dichloroethane	50.0	54.5		ug/Kg		109	73 - 126
1,1-Dichloroethene	50.0	59.8		ug/Kg		120	59 - 125
1,2,4-Trichlorobenzene	50.0	59.9		ug/Kg		120	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	55.7		ug/Kg		111	63 - 124
1,2-Dichlorobenzene	50.0	55.8		ug/Kg		112	75 - 120
1,2-Dichloroethane	50.0	47.9		ug/Kg		96	77 - 122
1,2-Dichloropropane	50.0	51.8		ug/Kg		104	75 - 124
1,3-Dichlorobenzene	50.0	58.0		ug/Kg		116	74 - 120
1,4-Dichlorobenzene	50.0	57.4		ug/Kg		115	73 - 120
2-Butanone (MEK)	250	221		ug/Kg		88	70 - 134
2-Hexanone	250	258		ug/Kg		103	59 - 130

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

Lab Sample ID: LCS 480-551501/1-A
Matrix: Solid
Analysis Batch: 551556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	250	254		ug/Kg		102	65 - 133
Acetone	250	216		ug/Kg		86	61 - 137
Benzene	50.0	53.9		ug/Kg		108	79 - 127
Bromoform	50.0	50.5		ug/Kg		101	68 - 126
Bromomethane	50.0	48.2		ug/Kg		96	37 - 149
Carbon disulfide	50.0	56.5		ug/Kg		113	64 - 131
Carbon tetrachloride	50.0	61.2		ug/Kg		122	75 - 135
Chlorobenzene	50.0	56.4		ug/Kg		113	76 - 124
Dibromochloromethane	50.0	61.7		ug/Kg		123	76 - 125
Chloroethane	50.0	51.9		ug/Kg		104	69 - 135
Chloroform	50.0	51.5		ug/Kg		103	80 - 120
Chloromethane	50.0	43.9		ug/Kg		88	63 - 127
cis-1,2-Dichloroethene	50.0	53.5		ug/Kg		107	81 - 120
Cyclohexane	50.0	60.9	*	ug/Kg		122	65 - 120
Bromodichloromethane	50.0	54.3		ug/Kg		109	80 - 122
Dichlorodifluoromethane	50.0	42.8		ug/Kg		86	57 - 142
Ethylbenzene	50.0	58.6		ug/Kg		117	80 - 120
1,2-Dibromoethane	50.0	54.0		ug/Kg		108	78 - 120
Isopropylbenzene	50.0	60.6	*	ug/Kg		121	72 - 120
Methyl acetate	100	96.2		ug/Kg		96	55 - 136
Methyl tert-butyl ether	50.0	50.0		ug/Kg		100	63 - 125
Methylcyclohexane	50.0	60.9		ug/Kg		122	60 - 140
Methylene Chloride	50.0	51.3		ug/Kg		103	61 - 127
Tetrachloroethene	50.0	62.9	*	ug/Kg		126	74 - 122
Toluene	50.0	58.4		ug/Kg		117	74 - 128
trans-1,2-Dichloroethene	50.0	56.7		ug/Kg		113	78 - 126
trans-1,3-Dichloropropene	50.0	57.1		ug/Kg		114	73 - 123
Trichloroethene	50.0	55.1		ug/Kg		110	77 - 129
Trichlorofluoromethane	50.0	63.5		ug/Kg		127	65 - 146
Vinyl chloride	50.0	51.7		ug/Kg		103	61 - 133
cis-1,3-Dichloropropene	50.0	53.0		ug/Kg		106	80 - 120
Styrene	50.0	54.6		ug/Kg		109	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 126*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*
Toluene-d8 (Surr)	*104*		*71 - 125*
Dibromofluoromethane (Surr)	*98*		*60 - 140*

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

Lab Sample ID: MB 480-551103/1-A
Matrix: Solid
Analysis Batch: 551234

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		09/24/20 15:24	09/25/20 11:12	1

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

Lab Sample ID: MB 480-551103/1-A
Matrix: Solid
Analysis Batch: 551234

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
2-Chloronaphthalene	ND		170	28	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
2-Chlorophenol	ND		330	31	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
2-Methylnaphthalene	ND		170	34	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
2-Methylphenol	ND		170	20	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
2-Nitroaniline	ND		330	25	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
2-Nitrophenol	ND		170	48	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
3-Nitroaniline	ND		330	47	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
4-Chloroaniline	ND		170	42	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
4-Methylphenol	ND		330	20	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
4-Nitroaniline	ND		330	89	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
4-Nitrophenol	ND		330	120	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Acenaphthene	ND		170	25	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Acenaphthylene	ND		170	22	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Acetophenone	ND		170	23	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Anthracene	ND		170	42	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Atrazine	ND		170	59	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Benzaldehyde	ND		170	130	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Benzo[a]anthracene	ND		170	17	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Benzo[a]pyrene	ND		170	25	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Caprolactam	ND		170	51	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Carbazole	ND		170	20	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Chrysene	ND		170	38	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Dibenzofuran	ND		170	20	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Diethyl phthalate	ND		170	22	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Dimethyl phthalate	ND		170	20	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Fluoranthene	ND		170	18	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Fluorene	ND		170	20	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Hexachlorobenzene	ND		170	23	ug/Kg		09/24/20 15:24	09/25/20 11:12	1

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

Lab Sample ID: MB 480-551103/1-A
Matrix: Solid
Analysis Batch: 551234

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		170	25	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Hexachloroethane	ND		170	22	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Isophorone	ND		170	36	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Naphthalene	ND		170	22	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Nitrobenzene	ND		170	19	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Pentachlorophenol	ND		330	170	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Phenanthrene	ND		170	25	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Phenol	ND		170	26	ug/Kg		09/24/20 15:24	09/25/20 11:12	1
Pyrene	ND		170	20	ug/Kg		09/24/20 15:24	09/25/20 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*54 - 120*	*09/24/20 15:24*	*09/25/20 11:12*	*1*
2-Fluorobiphenyl	*91*		*60 - 120*	*09/24/20 15:24*	*09/25/20 11:12*	*1*
2-Fluorophenol	*86*		*52 - 120*	*09/24/20 15:24*	*09/25/20 11:12*	*1*
Nitrobenzene-d5	*79*		*53 - 120*	*09/24/20 15:24*	*09/25/20 11:12*	*1*
p-Terphenyl-d14	*117*		*79 - 130*	*09/24/20 15:24*	*09/25/20 11:12*	*1*
Phenol-d5	*88*		*54 - 120*	*09/24/20 15:24*	*09/25/20 11:12*	*1*

Lab Sample ID: LCS 480-551103/2-A
Matrix: Solid
Analysis Batch: 551234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1670	1560		ug/Kg		94	59 - 120
bis (2-chloroisopropyl) ether	1670	1130		ug/Kg		68	44 - 120
2,4,5-Trichlorophenol	1670	1570		ug/Kg		94	59 - 126
2,4,6-Trichlorophenol	1670	1580		ug/Kg		95	59 - 123
2,4-Dichlorophenol	1670	1480		ug/Kg		89	61 - 120
2,4-Dimethylphenol	1670	1360		ug/Kg		82	59 - 120
2,4-Dinitrophenol	3330	3300		ug/Kg		99	41 - 146
2,4-Dinitrotoluene	1670	1530		ug/Kg		92	63 - 120
2,6-Dinitrotoluene	1670	1570		ug/Kg		94	66 - 120
2-Chloronaphthalene	1670	1500		ug/Kg		90	57 - 120
2-Chlorophenol	1670	1420		ug/Kg		85	53 - 120
2-Methylnaphthalene	1670	1450		ug/Kg		87	59 - 120
2-Methylphenol	1670	1490		ug/Kg		89	54 - 120
2-Nitroaniline	1670	1370		ug/Kg		82	61 - 120
2-Nitrophenol	1670	1560		ug/Kg		94	56 - 120
3,3'-Dichlorobenzidine	3330	3160		ug/Kg		95	54 - 120
3-Nitroaniline	1670	1480		ug/Kg		89	48 - 120
4,6-Dinitro-2-methylphenol	3330	3550		ug/Kg		107	49 - 122
4-Bromophenyl phenyl ether	1670	1470		ug/Kg		88	58 - 120
4-Chloro-3-methylphenol	1670	1400		ug/Kg		84	61 - 120
4-Chloroaniline	1670	1320		ug/Kg		79	38 - 120

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

Lab Sample ID: LCS 480-551103/2-A
Matrix: Solid
Analysis Batch: 551234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1670	1460		ug/Kg		88	63 - 124
4-Methylphenol	1670	1490		ug/Kg		89	55 - 120
4-Nitroaniline	1670	1550		ug/Kg		93	56 - 120
4-Nitrophenol	3330	2360		ug/Kg		71	43 - 147
Acenaphthene	1670	1570		ug/Kg		94	62 - 120
Acenaphthylene	1670	1560		ug/Kg		94	58 - 121
Acetophenone	1670	1340		ug/Kg		81	54 - 120
Anthracene	1670	1680		ug/Kg		101	62 - 120
Atrazine	3330	2960		ug/Kg		89	60 - 127
Benzaldehyde	3330	2610		ug/Kg		78	10 - 150
Benzo[a]anthracene	1670	1660		ug/Kg		100	65 - 120
Benzo[a]pyrene	1670	1730		ug/Kg		104	64 - 120
Benzo[b]fluoranthene	1670	1640		ug/Kg		98	64 - 120
Benzo[g,h,i]perylene	1670	1630		ug/Kg		98	45 - 145
Benzo[k]fluoranthene	1670	1840		ug/Kg		110	65 - 120
Bis(2-chloroethoxy)methane	1670	1430		ug/Kg		86	55 - 120
Bis(2-chloroethyl)ether	1670	1380		ug/Kg		83	45 - 120
Bis(2-ethylhexyl) phthalate	1670	1750		ug/Kg		105	61 - 133
Butyl benzyl phthalate	1670	1740		ug/Kg		104	61 - 129
Caprolactam	3330	3160		ug/Kg		95	47 - 120
Carbazole	1670	1610		ug/Kg		97	65 - 120
Chrysene	1670	1650		ug/Kg		99	64 - 120
Di-n-butyl phthalate	1670	1550		ug/Kg		93	58 - 130
Di-n-octyl phthalate	1670	1610		ug/Kg		97	57 - 133
Dibenz(a,h)anthracene	1670	1610		ug/Kg		97	54 - 132
Dibenzofuran	1670	1520		ug/Kg		91	63 - 120
Diethyl phthalate	1670	1390		ug/Kg		83	66 - 120
Dimethyl phthalate	1670	1500		ug/Kg		90	65 - 124
Fluoranthene	1670	1590		ug/Kg		95	62 - 120
Fluorene	1670	1490		ug/Kg		90	63 - 120
Hexachlorobenzene	1670	1350		ug/Kg		81	60 - 120
Hexachlorobutadiene	1670	1290		ug/Kg		77	45 - 120
Hexachlorocyclopentadiene	1670	1340		ug/Kg		81	47 - 120
Hexachloroethane	1670	1210		ug/Kg		73	41 - 120
Indeno[1,2,3-cd]pyrene	1670	1610		ug/Kg		96	56 - 134
Isophorone	1670	1430		ug/Kg		86	56 - 120
N-Nitrosodi-n-propylamine	1670	1310		ug/Kg		79	52 - 120
Naphthalene	1670	1450		ug/Kg		87	55 - 120
Nitrobenzene	1670	1310		ug/Kg		79	54 - 120
Pentachlorophenol	3330	2960		ug/Kg		89	51 - 120
Phenanthrene	1670	1650		ug/Kg		99	60 - 120
Phenol	1670	1430		ug/Kg		86	53 - 120
Pyrene	1670	1860		ug/Kg		112	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*79*		*54 - 120*
2-Fluorobiphenyl	*94*		*60 - 120*
2-Fluorophenol	*85*		*52 - 120*

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

Lab Sample ID: LCS 480-551103/2-A
Matrix: Solid
Analysis Batch: 551234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551103

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	78		53 - 120
p-Terphenyl-d14	103		79 - 130
Phenol-d5	87		54 - 120

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 480-551469/1-A
Matrix: Solid
Analysis Batch: 551472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551469

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		1.3	0.33	mg/Kg		09/28/20 08:59	09/28/20 09:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	105		46 - 156	09/28/20 08:59	09/28/20 09:29	1

Lab Sample ID: LCS 480-551469/2-A
Matrix: Solid
Analysis Batch: 551472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551469

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C6-C10)			10.0	9.33		mg/Kg		93	64 - 129		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	102		46 - 156

Lab Sample ID: LCSD 480-551469/3-A
Matrix: Solid
Analysis Batch: 551472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 551469

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C6-C10)			10.0	9.22		mg/Kg		92	64 - 129	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	101		46 - 156

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-551310/1-A
Matrix: Solid
Analysis Batch: 551437

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		16	4.9	mg/Kg		09/25/20 15:32	09/28/20 07:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	77		48 - 125	09/25/20 15:32	09/28/20 07:47	1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 480-551310/2-A
Matrix: Solid
Analysis Batch: 551437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551310

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			49.4	42.5		mg/Kg		86	63 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*84*		*48 - 125*

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

Lab Sample ID: MB 480-551105/1-A
Matrix: Solid
Analysis Batch: 551192

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.038	mg/Kg		09/24/20 15:34	09/25/20 08:52	1
PCB-1221	ND		0.19	0.038	mg/Kg		09/24/20 15:34	09/25/20 08:52	1
PCB-1232	ND		0.19	0.038	mg/Kg		09/24/20 15:34	09/25/20 08:52	1
PCB-1242	ND		0.19	0.038	mg/Kg		09/24/20 15:34	09/25/20 08:52	1
PCB-1248	ND		0.19	0.038	mg/Kg		09/24/20 15:34	09/25/20 08:52	1
PCB-1254	ND		0.19	0.090	mg/Kg		09/24/20 15:34	09/25/20 08:52	1
PCB-1260	ND		0.19	0.090	mg/Kg		09/24/20 15:34	09/25/20 08:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*136*		*60 - 154*	*09/24/20 15:34*	*09/25/20 08:52*	*1*
Tetrachloro-m-xylene	*115*		*60 - 154*	*09/24/20 15:34*	*09/25/20 08:52*	*1*
DCB Decachlorobiphenyl	*146*		*65 - 174*	*09/24/20 15:34*	*09/25/20 08:52*	*1*
DCB Decachlorobiphenyl	*114*		*65 - 174*	*09/24/20 15:34*	*09/25/20 08:52*	*1*

Lab Sample ID: LCS 480-551105/2-A
Matrix: Solid
Analysis Batch: 551192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551105

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.92	2.52		mg/Kg		131	51 - 185		
PCB-1260			1.92	3.04		mg/Kg		159	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*155*	*X*	*60 - 154*
Tetrachloro-m-xylene	*129*		*60 - 154*
DCB Decachlorobiphenyl	*163*		*65 - 174*
DCB Decachlorobiphenyl	*125*		*65 - 174*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-551368/1-A
Matrix: Solid
Analysis Batch: 551845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		14.5	0.39	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Arsenic	ND		1.9	0.39	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Barium	ND	^	0.48	0.11	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Beryllium	ND		0.19	0.027	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Cadmium	ND		0.19	0.029	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Calcium	ND		48.5	3.2	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Chromium	ND		0.48	0.19	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Cobalt	ND		0.48	0.048	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Copper	ND		0.97	0.20	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Iron	ND		9.7	3.4	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Lead	ND		0.97	0.23	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Magnesium	ND		19.4	0.90	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Manganese	0.0417	J	0.19	0.031	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Nickel	ND		4.8	0.22	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Potassium	ND		29.1	19.4	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Selenium	ND		3.9	0.39	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Silver	ND		0.58	0.19	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Sodium	ND		136	12.6	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Thallium	ND		5.8	0.29	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Vanadium	ND		0.48	0.11	mg/Kg		09/28/20 17:35	09/29/20 18:47	1
Zinc	ND		1.9	0.62	mg/Kg		09/28/20 17:35	09/29/20 18:47	1

Lab Sample ID: MB 480-551368/1-A
Matrix: Solid
Analysis Batch: 551944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.7	4.3	mg/Kg		09/28/20 17:35	09/30/20 14:20	1

Lab Sample ID: LCSSRM 480-551368/2-A
Matrix: Solid
Analysis Batch: 551845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551368

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	206	66.51		mg/Kg		32.3	10.0 - 123.8
Arsenic	106	90.67		mg/Kg		85.5	64.4 - 119.8
Barium	340	284.6	^	mg/Kg		83.7	70.6 - 117.6
Beryllium	43.8	36.91		mg/Kg		84.3	71.0 - 118.3
Cadmium	125	98.77		mg/Kg		79.0	68.4 - 114.4
Calcium	5190	4385		mg/Kg		84.5	66.1 - 116.0
Chromium	158	141.4		mg/Kg		89.5	65.2 - 120.9
Cobalt	48.5	48.22		mg/Kg		99.4	72.4 - 120.4

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

Lab Sample ID: LCSSRM 480-551368/2-A
Matrix: Solid
Analysis Batch: 551845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551368

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	102	89.31		mg/Kg		87.6	71.9 - 119.6
Iron	15000	15560		mg/Kg		103.8	32.7 - 154.7
Lead	106	113.5		mg/Kg		107.1	69.8 - 127.4
Magnesium	2570	2235		mg/Kg		87.0	55.6 - 124.1
Manganese	287	255.0		mg/Kg		88.8	71.8 - 122.3
Nickel	130	125.5		mg/Kg		96.5	64.0 - 119.2
Potassium	2420	2110		mg/Kg		87.2	49.6 - 118.6
Selenium	103	83.46		mg/Kg		81.0	58.3 - 122.3
Silver	34.0	30.29		mg/Kg		89.1	64.4 - 123.8
Sodium	161	148.0		mg/Kg		91.9	38.0 - 154.0
Thallium	113	109.0		mg/Kg		96.5	61.9 - 121.2
Vanadium	189	160.2		mg/Kg		84.8	67.7 - 116.4
Zinc	222	195.0		mg/Kg		87.8	66.7 - 123.9

Lab Sample ID: LCSSRM 480-551368/2-A
Matrix: Solid
Analysis Batch: 551944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551368

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10100	10980		mg/Kg		108.7	42.4 - 125.7

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-551144/1-A
Matrix: Solid
Analysis Batch: 551319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551144

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.018	0.0073	mg/Kg		09/25/20 13:46	09/25/20 15:01	1

Lab Sample ID: LCSSRM 480-551144/2-A ^5
Matrix: Solid
Analysis Batch: 551319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551144

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.79	6.59		mg/Kg		113.9	62.2 - 144.9

Client: ARCADIS U.S. Inc
Job ID: 480-175528-1
Project/Site: National Grid - North Albany Project

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-551169/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 551255
Prep Batch: 551169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.95	0.46	mg/Kg		09/24/20 20:46	09/25/20 10:17	1

Lab Sample ID: LCS 480-551169/2-A ^20
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 551255
Prep Batch: 551169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	86.4	38.56		mg/Kg		45	29 - 122

GC/MS VOA

Analysis Batch: 551429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-3	SB-208 (10")	Total/NA	Solid	8260C	551436
MB 480-551436/2-A	Method Blank	Total/NA	Solid	8260C	551436
LCS 480-551436/22-A	Lab Control Sample	Total/NA	Solid	8260C	551436

Prep Batch: 551436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-3	SB-208 (10")	Total/NA	Solid	5035A_L	
MB 480-551436/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-551436/22-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Prep Batch: 551501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	5035A_L	
MB 480-551501/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-551501/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 551556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	8260C	551501
MB 480-551501/2-A	Method Blank	Total/NA	Solid	8260C	551501
LCS 480-551501/1-A	Lab Control Sample	Total/NA	Solid	8260C	551501

GC/MS Semi VOA

Prep Batch: 551103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	3550C	
480-175528-3	SB-208 (10")	Total/NA	Solid	3550C	
MB 480-551103/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-551103/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 551234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	8270D	551103
480-175528-3	SB-208 (10")	Total/NA	Solid	8270D	551103
MB 480-551103/1-A	Method Blank	Total/NA	Solid	8270D	551103
LCS 480-551103/2-A	Lab Control Sample	Total/NA	Solid	8270D	551103

GC VOA

Prep Batch: 551469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	5035A_H	
480-175528-3	SB-208 (10")	Total/NA	Solid	5035A_H	
MB 480-551469/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-551469/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-551469/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

Analysis Batch: 551472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	8015D	551469
480-175528-3	SB-208 (10")	Total/NA	Solid	8015D	551469

GC VOA (Continued)

Analysis Batch: 551472 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-551469/1-A	Method Blank	Total/NA	Solid	8015D	551469
LCS 480-551469/2-A	Lab Control Sample	Total/NA	Solid	8015D	551469
LCSD 480-551469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	551469

GC Semi VOA

Prep Batch: 551105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	3550C	
480-175528-3	SB-208 (10")	Total/NA	Solid	3550C	
MB 480-551105/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-551105/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 551192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	8082A	551105
480-175528-3	SB-208 (10")	Total/NA	Solid	8082A	551105
MB 480-551105/1-A	Method Blank	Total/NA	Solid	8082A	551105
LCS 480-551105/2-A	Lab Control Sample	Total/NA	Solid	8082A	551105

Prep Batch: 551310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	3550C	
480-175528-3	SB-208 (10")	Total/NA	Solid	3550C	
MB 480-551310/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-551310/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 551437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-551310/1-A	Method Blank	Total/NA	Solid	8015D	551310
LCS 480-551310/2-A	Lab Control Sample	Total/NA	Solid	8015D	551310

Analysis Batch: 551571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	8015D	551310
480-175528-3	SB-208 (10")	Total/NA	Solid	8015D	551310

Metals

Prep Batch: 551144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	7471B	
480-175528-3	SB-208 (10")	Total/NA	Solid	7471B	
MB 480-551144/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-551144/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 551319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	7471B	551144
480-175528-3	SB-208 (10")	Total/NA	Solid	7471B	551144
MB 480-551144/1-A	Method Blank	Total/NA	Solid	7471B	551144
LCSSRM 480-551144/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	551144

Metals

Prep Batch: 551368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	3050B	
480-175528-3	SB-208 (10")	Total/NA	Solid	3050B	
MB 480-551368/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-551368/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 551845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	6010C	551368
480-175528-3	SB-208 (10")	Total/NA	Solid	6010C	551368
MB 480-551368/1-A	Method Blank	Total/NA	Solid	6010C	551368
LCSSRM 480-551368/2-A	Lab Control Sample	Total/NA	Solid	6010C	551368

Analysis Batch: 551944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	6010C	551368
480-175528-3	SB-208 (10")	Total/NA	Solid	6010C	551368
MB 480-551368/1-A	Method Blank	Total/NA	Solid	6010C	551368
LCSSRM 480-551368/2-A	Lab Control Sample	Total/NA	Solid	6010C	551368

General Chemistry

Prep Batch: 551169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	9012B	
480-175528-3	SB-208 (10")	Total/NA	Solid	9012B	
MB 480-551169/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-551169/2-A ^20	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 551255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	9012B	551169
480-175528-3	SB-208 (10")	Total/NA	Solid	9012B	551169
MB 480-551169/1-A	Method Blank	Total/NA	Solid	9012B	551169
LCS 480-551169/2-A ^20	Lab Control Sample	Total/NA	Solid	9012B	551169

Analysis Batch: 551266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175528-1	SB-204 (10")	Total/NA	Solid	Moisture	
480-175528-3	SB-208 (10")	Total/NA	Solid	Moisture	

Client Sample ID: SB-204 (10")
Lab Sample ID: 480-175528-1
Date Collected: 09/23/20 11:30
Matrix: Solid
Date Received: 09/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551266	09/25/20 12:01	GSR	TAL BUF

Client Sample ID: SB-204 (10")
Lab Sample ID: 480-175528-1
Date Collected: 09/23/20 11:30
Matrix: Solid
Date Received: 09/24/20 08:00
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			551501	09/24/20 11:00	WJD	TAL BUF
Total/NA	Analysis	8260C		1	551556	09/29/20 00:46	WJD	TAL BUF
Total/NA	Prep	3550C			551103	09/24/20 15:24	SGD	TAL BUF
Total/NA	Analysis	8270D		10	551234	09/25/20 14:31	RJS	TAL BUF
Total/NA	Prep	5035A_H			551469	09/28/20 08:59	JLS	TAL BUF
Total/NA	Analysis	8015D		1	551472	09/28/20 11:55	JLS	TAL BUF
Total/NA	Prep	3550C			551310	09/25/20 15:32	SGD	TAL BUF
Total/NA	Analysis	8015D		1	551571	09/29/20 10:11	MAN	TAL BUF
Total/NA	Prep	3550C			551105	09/24/20 15:34	SGD	TAL BUF
Total/NA	Analysis	8082A		1	551192	09/25/20 10:30	W1T	TAL BUF
Total/NA	Prep	3050B			551368	09/28/20 17:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	551845	09/29/20 19:37	LMH	TAL BUF
Total/NA	Prep	3050B			551368	09/28/20 17:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	551944	09/30/20 14:27	LMH	TAL BUF
Total/NA	Prep	7471B			551144	09/25/20 13:46	BMB	TAL BUF
Total/NA	Analysis	7471B		1	551319	09/25/20 15:23	BMB	TAL BUF
Total/NA	Prep	9012B			551169	09/24/20 20:46	E1T	TAL BUF
Total/NA	Analysis	9012B		1	551255	09/25/20 10:24	CRK	TAL BUF

Client Sample ID: SB-208 (10")
Lab Sample ID: 480-175528-3
Date Collected: 09/23/20 13:50
Matrix: Solid
Date Received: 09/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551266	09/25/20 12:01	GSR	TAL BUF

Client Sample ID: SB-208 (10")
Lab Sample ID: 480-175528-3
Date Collected: 09/23/20 13:50
Matrix: Solid
Date Received: 09/24/20 08:00
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			551436	09/24/20 11:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	551429	09/28/20 00:35	WJD	TAL BUF
Total/NA	Prep	3550C			551103	09/24/20 15:24	SGD	TAL BUF
Total/NA	Analysis	8270D		20	551234	09/25/20 15:21	RJS	TAL BUF
Total/NA	Prep	5035A_H			551469	09/28/20 08:59	JLS	TAL BUF
Total/NA	Analysis	8015D		1	551472	09/28/20 12:31	JLS	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-175528-1
Project/Site: National Grid - North Albany Project

Client Sample ID: SB-208 (10")
Lab Sample ID: 480-175528-3
Date Collected: 09/23/20 13:50
Matrix: Solid
Date Received: 09/24/20 08:00
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			551310	09/25/20 15:32	SGD	TAL BUF
Total/NA	Analysis	8015D		1	551571	09/29/20 10:47	MAN	TAL BUF
Total/NA	Prep	3550C			551105	09/24/20 15:34	SGD	TAL BUF
Total/NA	Analysis	8082A		1	551192	09/25/20 10:55	W1T	TAL BUF
Total/NA	Prep	3050B			551368	09/28/20 17:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	551845	09/29/20 19:41	LMH	TAL BUF
Total/NA	Prep	3050B			551368	09/28/20 17:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	551944	09/30/20 14:31	LMH	TAL BUF
Total/NA	Prep	7471B			551144	09/25/20 13:46	BMB	TAL BUF
Total/NA	Analysis	7471B		1	551319	09/25/20 15:26	BMB	TAL BUF
Total/NA	Prep	9012B			551169	09/24/20 20:46	E1T	TAL BUF
Total/NA	Analysis	9012B		1	551255	09/25/20 10:27	CRK	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-175528-1
Project/Site: National Grid - North Albany Project

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-175528-1
Project/Site: National Grid - North Albany Project

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-175528-1
Project/Site: National Grid - North Albany Project

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-175528-1	SB-204 (10")	Solid	09/23/20 11:30	09/24/20 08:00	
480-175528-3	SB-208 (10")	Solid	09/23/20 13:50	09/24/20 08:00	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Albany #224 Chain of Custody Record

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Client Information	Sampler: K. Liloia	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-151083-33571.2
Client Contact: Mr. John Brussel	Phone: 518-222-5130	E-Mail: John.Schove@Eurofinset.com		Page: Page 1 of 1
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days):			
State, Zip: NY, 13202				
Phone: 315-671-9441(Tel)	PO #: 30058019 Takk 10			
Email: john.brussel@arcadis-us.com	WO #: AUS-T1-EUR30058019-WA1			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012B - Cyanide	6010C, 7471B	8082A, 8270D	8015D_DRO - TPH DRO	8015D_GRO - TPH GRO	8260C - TCL VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N		
SB-204 (10")	9-23-2020	1130	G	Solid	N	N	✓	✓	✓	✓	✓	✓		
SB-206 (10")	9-23-2020	1250	G	Solid	N	N	✓	✓	✓	✓	✓	✓		
SB-208 (10")	9-23-2020	1350	G	Solid	N	N	✓	✓	✓	✓	✓	✓		
SB-202 (10")	9-23-2020	1505	G	Solid	N	N	✓	✓	✓	✓	✓	✓		

Discard the following samples:
- SB-202 (10")
- SB-206 (10")

480-175528 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Kristi J. Liloia	9-23-2020/1615	Arcadis	Karl Jaeke	9/23/20 1615	Eurofins
2	Karl Jaeke	9/23/20 1700	Eurofins			
3					9/24/20 0800	JSA

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

Cooler Temperature(s) °C and Other Remarks: 4.1 #1

Ver: 01/16/2019

10/7/2020

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-175528-1

Login Number: 175528

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	freeze time: 1100
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-175593-1
Client Project/Site: National Grid - North Albany Project

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. John Brussel

Authorized for release by:
10/9/2020 1:00:22 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

John Schove, Project Manager II
(716)504-9838
John.Schove@Eurofinset.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-175593-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-175593-1

Comments
No additional comments.

Receipt
The samples were received on 9/25/2020 8:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.6º C and 2.9º C.

Receipt Exceptions

No labels were on terracore vials.

A revised chain of custody (COC) was received after the samples arrived at the laboratory. The revised COC canceled all analyses on sample SB-207 (10") (480-175593-4).

GC/MS VOA
Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-551556 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,2,4-Trichlorobenzene, Carbon tetrachloride, Dibromochloromethane and Tetrachloroethene. The samples associated with this CCVIS were non-detect for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SB-203 (10") (480-175593-1), SB-201 (10") (480-175593-2), SB-205 (8") (480-175593-3) and DUP-20200924 (480-175593-5).

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-551501 and analytical batch 480-551556 recovered outside control limits for the following analytes: Cyclohexane, Isopropylbenzene and Tetrachloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated samples are: SB-203 (10") (480-175593-1), SB-201 (10") (480-175593-2), SB-205 (8") (480-175593-3) and DUP-20200924 (480-175593-5).

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

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-551551 recovered above the upper control limit for Pyrene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SB-205 (8") (480-175593-3) and DUP-20200924 (480-175593-5).

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Benzaldehyde. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with preparation batch 480-551450 and analytical batch 480-551551 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-551551 recovered outside acceptance criteria, low biased, for 4-Nitrophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: SB-205 (8") (480-175593-3) and DUP-20200924 (480-175593-5). Elevated reporting limits (RL) are provided.

Method 8270D: The following samples required a dilution due to the nature of the sample matrix: SB-205 (8") (480-175593-3) and DUP-20200924 (480-175593-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following samples were diluted due to color and appearance: SB-203 (10") (480-175593-1), SB-201 (10") (480-175593-2), SB-201 (10") (480-175593-2[MS]) and SB-201 (10") (480-175593-2[MSD]). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-551697 recovered above the upper control limit for

Job ID: 480-175593-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

4,6-Dinitro-2-methylphenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SB-203 (10") (480-175593-1) and SB-201 (10") (480-175593-2).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-551697 recovered outside acceptance criteria, low biased, for 2,2'-oxybis[1-chloropropane] and 4-Nitrophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB-201 (10") (480-175593-2). These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-551450 and analytical batch 480-551697 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-551450 and analytical batch 480-551697 were diluted below the method detection limit (MDL) for 2,4-Dinitrophenol; therefore, percent recovery and RPD could not be calculated. The associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC VOA

Method 8015D: The following samples were diluted due to the nature of the sample matrix: SB-203 (10") (480-175593-1), SB-205 (8") (480-175593-3) and DUP-20200924 (480-175593-5). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method 8015D: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB-201 (10") (480-175593-2). Elevated reporting limits (RLs) are provided.

Method 8015D: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-203 (10") (480-175593-1), SB-201 (10") (480-175593-2[MS]) and SB-201 (10") (480-175593-2[MSD]). Elevated reporting limits (RLs) are provided.

Method 8015D: The matrix spike duplicate (MSD) recoveries for preparation batch 480-551310 and analytical batch 480-551571 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: SB-205 (8") (480-175593-3). Elevated reporting limits (RLs) are provided.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-551931 and analytical batch 480-552096 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-551931 and analytical batch 480-552096 was outside control limits. Sample matrix interference is suspected.

Method 8082A: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: SB-201 (10") (480-175593-2[MS]). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

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

Metals

Job ID: 480-175593-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. SB-203 (10") (480-175593-1), SB-201 (10") (480-175593-2), SB-201 (10") (480-175593-2[MS]), SB-201 (10") (480-175593-2[MSD]), SB-205 (8") (480-175593-3), DUP-20200924 (480-175593-5), (LCSSRM 480-551369/2-A) and (MB 480-551369/1-A)

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

General Chemistry
Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-551978 and analytical batch 480-552079 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Organic Prep
Method 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: SB-205 (8") (480-175593-3) and DUP-20200924 (480-175593-5). The reporting limits (RLs) are elevated proportionately.

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

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

Client Sample ID: SB-203 (10")
Lab Sample ID: 480-175593-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	840	J	940	120	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	1100		940	94	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	1100		940	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	1800		940	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1000		940	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	710	J	940	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	1300		940	210	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	230	J	940	170	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1100		940	100	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	790	J	940	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	410	J	940	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	1500		940	110	ug/Kg	5	☼	8270D	Total/NA
GRO (C6-C10)	0.84	J	2.1	0.55	mg/Kg	2	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	200		92	28	mg/Kg	5	☼	8015D	Total/NA
Aluminum	7960		11.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	6.1		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	88.1	^	0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.49		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.078	J	0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	5350	B	57.1	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	14.2		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.9		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	49.2		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	19100		11.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	189		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3010		22.9	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	246	B	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	16.9		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1630		34.3	22.9	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.58	J	4.6	0.46	mg/Kg	1	☼	6010C	Total/NA
Sodium	530		160	14.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	21.4		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	65.0		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.49		0.021	0.0084	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.0		0.99	0.48	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: SB-201 (10")
Lab Sample ID: 480-175593-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Styrene	1.7	J	9.2	0.46	ug/Kg	1	☼	8260C	Total/NA
Acenaphthylene	830	J	950	120	ug/Kg	5	☼	8270D	Total/NA
Acetophenone	360	J	950	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	1300	F1 F2	950	95	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	1400	F1 F2	950	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	2100	F1 F2	950	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1500		950	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1000		950	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	1600	F1 F2	950	210	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	350	J	950	170	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	880	J F1 F2	950	100	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1200		950	120	ug/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: SB-201 (10") (Continued)
Lab Sample ID: 480-175593-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	190	J	950	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	1600	F1	950	110	ug/Kg	5	☼	8270D	Total/NA
GRO (C6-C10)	0.74	J	0.89	0.23	mg/Kg	1	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	450		180	55	mg/Kg	10	☼	8015D	Total/NA
Aluminum	13200		11.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	8.8		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	110	^ F1	0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.53		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.66		0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	2560	B F1	56.9	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	19.8		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.2		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	42.9		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	28200		11.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	694		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3670	F1	22.8	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	321	B F2	0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	18.6		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	2660	F1	34.1	22.8	mg/Kg	1	☼	6010C	Total/NA
Sodium	873		159	14.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	27.9	F1	0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	122	F1	2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.20		0.019	0.0075	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	3.2	F1	1.0	0.51	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: SB-205 (8")
Lab Sample ID: 480-175593-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	12300		11.2	4.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	6.5		2.2	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	69.9	^	0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.60		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.24		0.22	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	19700	B	56.1	3.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	15.9		0.56	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	9.0		0.56	0.056	mg/Kg	1	☼	6010C	Total/NA
Copper	24.8		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	21500		11.2	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	34.3		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	10300		22.4	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	541	B	0.22	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	21.5		5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	2260		33.6	22.4	mg/Kg	1	☼	6010C	Total/NA
Sodium	678		157	14.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	24.6		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	157		2.2	0.72	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.16		0.018	0.0072	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: DUP-20200924
Lab Sample ID: 480-175593-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	66	J	190	56	mg/Kg	1	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-20200924 (Continued)

Lab Sample ID: 480-175593-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	13100		11.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	6.8		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	74.7	^	0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.63		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.25		0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	19200	B	57.2	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	18.0		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	8.7		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	27.8		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	23000		11.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	53.5		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	6530		22.9	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	459	B	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	23.0		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	2420		34.3	22.9	mg/Kg	1	☼	6010C	Total/NA
Sodium	676		160	14.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	27.8		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	165		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.11		0.021	0.0084	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

Client Sample ID: SB-203 (10")
Lab Sample ID: 480-175593-1
Date Collected: 09/24/20 08:00
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.35	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.79	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
1,1,2-Trichloroethane	ND		4.9	0.64	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.4	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
1,2-Dichlorobenzene	ND		4.9	0.38	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
1,2-Dichloropropane	ND		4.9	2.4	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
1,4-Dichlorobenzene	ND		4.9	0.68	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
2-Butanone (MEK)	ND		24	1.8	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Acetone	ND		24	4.1	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Benzene	ND		4.9	0.24	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Bromoform	ND		4.9	2.4	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Bromomethane	ND		4.9	0.44	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Carbon disulfide	ND		4.9	2.4	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Carbon tetrachloride	ND		4.9	0.47	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Chlorobenzene	ND		4.9	0.65	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Chloroethane	ND		4.9	1.1	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Chloroform	ND		4.9	0.30	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Chloromethane	ND		4.9	0.30	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
cis-1,2-Dichloroethene	ND		4.9	0.63	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Cyclohexane	ND	*	4.9	0.68	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Bromodichloromethane	ND		4.9	0.66	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Dichlorodifluoromethane	ND		4.9	0.40	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Ethylbenzene	ND		4.9	0.34	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Isopropylbenzene	ND	*	4.9	0.74	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Methyl acetate	ND		24	3.0	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Methylcyclohexane	ND		4.9	0.74	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Methylene Chloride	ND		4.9	2.2	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Tetrachloroethene	ND	*	4.9	0.66	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Toluene	ND		4.9	0.37	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
trans-1,2-Dichloroethene	ND		4.9	0.50	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
trans-1,3-Dichloropropene	ND		4.9	2.2	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Trichloroethene	ND		4.9	1.1	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Trichlorofluoromethane	ND		4.9	0.46	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Vinyl chloride	ND		4.9	0.60	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Xylenes, Total	ND		9.8	0.82	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
cis-1,3-Dichloropropene	ND		4.9	0.70	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1
Styrene	ND		4.9	0.24	ug/Kg	☼	09/25/20 10:00	09/28/20 23:04	1

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

Client Sample ID: SB-203 (10")
Lab Sample ID: 480-175593-1
Date Collected: 09/24/20 08:00
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*09/25/20 10:00*	*09/28/20 23:04*	*1*
4-Bromofluorobenzene (Surr)	*82*		*72 - 126*	*09/25/20 10:00*	*09/28/20 23:04*	*1*
Toluene-d8 (Surr)	*113*		*71 - 125*	*09/25/20 10:00*	*09/28/20 23:04*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*09/25/20 10:00*	*09/28/20 23:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		940	140	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
bis (2-chloroisopropyl) ether	ND		940	190	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
2,4,5-Trichlorophenol	ND		940	250	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
2,4,6-Trichlorophenol	ND		940	190	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
2,4-Dichlorophenol	ND		940	100	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
2,4-Dimethylphenol	ND		940	230	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
2,4-Dinitrophenol	ND		9200	4300	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
2,4-Dinitrotoluene	ND		940	190	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
2,6-Dinitrotoluene	ND		940	110	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
2-Chloronaphthalene	ND		940	160	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
2-Chlorophenol	ND		1800	170	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
2-Methylnaphthalene	ND		940	190	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
2-Methylphenol	ND		940	110	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
2-Nitroaniline	ND		1800	140	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
2-Nitrophenol	ND		940	270	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
3,3'-Dichlorobenzidine	ND		1800	1100	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
3-Nitroaniline	ND		1800	260	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
4,6-Dinitro-2-methylphenol	ND		1800	940	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
4-Bromophenyl phenyl ether	ND		940	130	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
4-Chloro-3-methylphenol	ND		940	230	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
4-Chloroaniline	ND		940	230	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
4-Chlorophenyl phenyl ether	ND		940	120	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
4-Methylphenol	ND		1800	110	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
4-Nitroaniline	ND		1800	490	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
4-Nitrophenol	ND		1800	660	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Acenaphthene	ND		940	140	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Acenaphthylene	**840**	**J**	940	120	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Acetophenone	ND		940	130	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Anthracene	ND		940	230	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Atrazine	ND		940	330	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Benzaldehyde	ND		940	750	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Benzo[a]anthracene	**1100**		940	94	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Benzo[a]pyrene	**1100**		940	140	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Benzo[b]fluoranthene	**1800**		940	150	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Benzo[g,h,i]perylene	**1000**		940	100	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Benzo[k]fluoranthene	**710**	**J**	940	120	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Bis(2-chloroethoxy)methane	ND		940	200	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Bis(2-chloroethyl)ether	ND		940	120	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Bis(2-ethylhexyl) phthalate	ND		940	320	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Butyl benzyl phthalate	ND		940	160	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Caprolactam	ND		940	280	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Carbazole	ND		940	110	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Chrysene	**1300**		940	210	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5

Client Sample ID: SB-203 (10")
Lab Sample ID: 480-175593-1
Date Collected: 09/24/20 08:00
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		940	160	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Di-n-octyl phthalate	ND		940	110	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Dibenz(a,h)anthracene	**230**	**J**	940	170	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Dibenzofuran	ND		940	110	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Diethyl phthalate	ND		940	120	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Dimethyl phthalate	ND		940	110	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Fluoranthene	**1100**		940	100	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Fluorene	ND		940	110	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Hexachlorobenzene	ND		940	130	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Hexachlorobutadiene	ND		940	140	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Hexachlorocyclopentadiene	ND		940	130	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Hexachloroethane	ND		940	120	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Indeno[1,2,3-cd]pyrene	**790**	**J**	940	120	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Isophorone	ND		940	200	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
N-Nitrosodi-n-propylamine	ND		940	160	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
N-Nitrosodiphenylamine	ND		940	760	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Naphthalene	ND		940	120	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Nitrobenzene	ND		940	110	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Pentachlorophenol	ND		1800	940	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Phenanthrene	**410**	**J**	940	140	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Phenol	ND		940	140	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5
Pyrene	**1500**		940	110	ug/Kg	☼	09/28/20 07:54	09/29/20 18:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*63*		*54 - 120*	*09/28/20 07:54*	*09/29/20 18:17*	*5*
2-Fluorobiphenyl	*91*		*60 - 120*	*09/28/20 07:54*	*09/29/20 18:17*	*5*
2-Fluorophenol	*82*		*52 - 120*	*09/28/20 07:54*	*09/29/20 18:17*	*5*
Nitrobenzene-d5	*80*		*53 - 120*	*09/28/20 07:54*	*09/29/20 18:17*	*5*
p-Terphenyl-d14	*91*		*79 - 130*	*09/28/20 07:54*	*09/29/20 18:17*	*5*
Phenol-d5	*88*		*54 - 120*	*09/28/20 07:54*	*09/29/20 18:17*	*5*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	**0.84**	**J**	2.1	0.55	mg/Kg	☼	09/28/20 08:59	09/28/20 17:24	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*46 - 156*	*09/28/20 08:59*	*09/28/20 17:24*	*2*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**200**		92	28	mg/Kg	☼	09/25/20 15:32	09/30/20 07:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*48 - 125*	*09/25/20 15:32*	*09/30/20 07:45*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	09/30/20 16:21	10/01/20 23:48	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	09/30/20 16:21	10/01/20 23:48	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	09/30/20 16:21	10/01/20 23:48	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	09/30/20 16:21	10/01/20 23:48	1

Client Sample ID: SB-203 (10")
Lab Sample ID: 480-175593-1

Date Collected: 09/24/20 08:00
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		0.23	0.045	mg/Kg	☼	09/30/20 16:21	10/01/20 23:48	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	09/30/20 16:21	10/01/20 23:48	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	09/30/20 16:21	10/01/20 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*60 - 154*	*09/30/20 16:21*	*10/01/20 23:48*	*1*
Tetrachloro-m-xylene	*85*		*60 - 154*	*09/30/20 16:21*	*10/01/20 23:48*	*1*
DCB Decachlorobiphenyl	*99*		*65 - 174*	*09/30/20 16:21*	*10/01/20 23:48*	*1*
DCB Decachlorobiphenyl	*68*		*65 - 174*	*09/30/20 16:21*	*10/01/20 23:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7960**		11.4	5.0	mg/Kg	☼	09/28/20 17:35	09/30/20 13:04	1
Antimony	ND		17.1	0.46	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Arsenic	**6.1**		2.3	0.46	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Barium	**88.1**	^	0.57	0.13	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Beryllium	**0.49**		0.23	0.032	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Cadmium	**0.078**	J	0.23	0.034	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Calcium	**5350**	B	57.1	3.8	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Chromium	**14.2**		0.57	0.23	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Cobalt	**6.9**		0.57	0.057	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Copper	**49.2**		1.1	0.24	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Iron	**19100**		11.4	4.0	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Lead	**189**		1.1	0.27	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Magnesium	**3010**		22.9	1.1	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Manganese	**246**	B	0.23	0.037	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Nickel	**16.9**		5.7	0.26	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Potassium	**1630**		34.3	22.9	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Selenium	**0.58**	J	4.6	0.46	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Silver	ND		0.69	0.23	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Sodium	**530**		160	14.9	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Thallium	ND		6.9	0.34	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Vanadium	**21.4**		0.57	0.13	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1
Zinc	**65.0**		2.3	0.73	mg/Kg	☼	09/28/20 17:35	09/29/20 18:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.49**		0.021	0.0084	mg/Kg	☼	10/08/20 16:10	10/08/20 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**1.0**		0.99	0.48	mg/Kg	☼	09/30/20 22:16	10/01/20 11:30	1

Client Sample ID: SB-201 (10")
Lab Sample ID: 480-175593-2

Date Collected: 09/24/20 09:30
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		9.2	0.67	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
1,1,2,2-Tetrachloroethane	ND		9.2	1.5	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

Client Sample ID: SB-201 (10")
Lab Sample ID: 480-175593-2
Date Collected: 09/24/20 09:30
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.2	2.1	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
1,1,2-Trichloroethane	ND		9.2	1.2	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
1,1-Dichloroethane	ND		9.2	1.1	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
1,1-Dichloroethene	ND		9.2	1.1	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
1,2,4-Trichlorobenzene	ND	F1	9.2	0.56	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
1,2-Dibromo-3-Chloropropane	ND		9.2	4.6	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
1,2-Dichlorobenzene	ND	F1	9.2	0.72	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
1,2-Dichloroethane	ND	F1	9.2	0.46	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
1,2-Dichloropropane	ND		9.2	4.6	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
1,3-Dichlorobenzene	ND	F1	9.2	0.47	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
1,4-Dichlorobenzene	ND	F1	9.2	1.3	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
2-Butanone (MEK)	ND	F1	46	3.4	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
2-Hexanone	ND		46	4.6	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
4-Methyl-2-pentanone (MIBK)	ND		46	3.0	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Acetone	ND	F1	46	7.8	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Benzene	ND		9.2	0.45	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Bromoform	ND	F1	9.2	4.6	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Bromomethane	ND		9.2	0.83	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Carbon disulfide	ND		9.2	4.6	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Carbon tetrachloride	ND		9.2	0.89	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Chlorobenzene	ND		9.2	1.2	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Dibromochloromethane	ND		9.2	1.2	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Chloroethane	ND		9.2	2.1	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Chloroform	ND		9.2	0.57	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Chloromethane	ND		9.2	0.56	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
cis-1,2-Dichloroethene	ND		9.2	1.2	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Cyclohexane	ND	*	9.2	1.3	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Bromodichloromethane	ND		9.2	1.2	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Dichlorodifluoromethane	ND	F1	9.2	0.76	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Ethylbenzene	ND		9.2	0.64	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
1,2-Dibromoethane	ND	F1	9.2	1.2	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Isopropylbenzene	ND	*	9.2	1.4	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Methyl acetate	ND		46	5.6	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Methyl tert-butyl ether	ND		9.2	0.91	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Methylcyclohexane	ND		9.2	1.4	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Methylene Chloride	ND		9.2	4.2	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Tetrachloroethene	ND	*	9.2	1.2	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Toluene	ND		9.2	0.70	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
trans-1,2-Dichloroethene	ND		9.2	0.95	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
trans-1,3-Dichloropropene	ND		9.2	4.1	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Trichloroethene	ND	F1	9.2	2.0	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Trichlorofluoromethane	ND		9.2	0.87	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Vinyl chloride	ND		9.2	1.1	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Xylenes, Total	ND		18	1.6	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
cis-1,3-Dichloropropene	ND	F1	9.2	1.3	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1
Styrene	**1.7**	**J**	9.2	0.46	ug/Kg	☼	09/25/20 10:00	09/28/20 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*09/25/20 10:00*	*09/28/20 23:29*	*1*
4-Bromofluorobenzene (Surr)	*88*		*72 - 126*	*09/25/20 10:00*	*09/28/20 23:29*	*1*

Client Sample ID: SB-201 (10")
Lab Sample ID: 480-175593-2
Date Collected: 09/24/20 09:30
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*71 - 125*	*09/25/20 10:00*	*09/28/20 23:29*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*09/25/20 10:00*	*09/28/20 23:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		950	140	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
bis (2-chloroisopropyl) ether	ND		950	190	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
2,4,5-Trichlorophenol	ND		950	260	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
2,4,6-Trichlorophenol	ND		950	190	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
2,4-Dichlorophenol	ND		950	100	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
2,4-Dimethylphenol	ND		950	230	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
2,4-Dinitrophenol	ND		9200	4400	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
2,4-Dinitrotoluene	ND		950	190	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
2,6-Dinitrotoluene	ND		950	110	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
2-Chloronaphthalene	ND		950	160	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
2-Chlorophenol	ND		1800	170	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
2-Methylnaphthalene	ND		950	190	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
2-Methylphenol	ND		950	110	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
2-Nitroaniline	ND		1800	140	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
2-Nitrophenol	ND		950	270	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
3,3'-Dichlorobenzidine	ND	F1	1800	1100	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
3-Nitroaniline	ND		1800	260	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
4,6-Dinitro-2-methylphenol	ND		1800	950	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
4-Bromophenyl phenyl ether	ND		950	130	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
4-Chloro-3-methylphenol	ND		950	230	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
4-Chloroaniline	ND		950	230	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
4-Chlorophenyl phenyl ether	ND		950	120	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
4-Methylphenol	ND		1800	110	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
4-Nitroaniline	ND		1800	500	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
4-Nitrophenol	ND		1800	660	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Acenaphthene	ND		950	140	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Acenaphthylene	**830**	**J**	950	120	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Acetophenone	**360**	**J**	950	130	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Anthracene	ND		950	230	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Atrazine	ND	F1 F2	950	330	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Benzaldehyde	ND		950	750	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Benzo[a]anthracene	**1300**	**F1 F2**	950	95	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Benzo[a]pyrene	**1400**	**F1 F2**	950	140	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Benzo[b]fluoranthene	**2100**	**F1 F2**	950	150	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Benzo[g,h,i]perylene	**1500**		950	100	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Benzo[k]fluoranthene	**1000**		950	120	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Bis(2-chloroethoxy)methane	ND		950	200	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Bis(2-chloroethyl)ether	ND		950	120	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Bis(2-ethylhexyl) phthalate	ND		950	320	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Butyl benzyl phthalate	ND		950	160	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Caprolactam	ND		950	280	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Carbazole	ND		950	110	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Chrysene	**1600**	**F1 F2**	950	210	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Di-n-butyl phthalate	ND		950	160	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5

Client Sample ID: SB-201 (10")
Lab Sample ID: 480-175593-2

Date Collected: 09/24/20 09:30
Matrix: Solid

Date Received: 09/25/20 08:00
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		950	110	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Dibenz(a,h)anthracene	**350**	**J**	950	170	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Dibenzofuran	ND		950	110	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Diethyl phthalate	ND		950	120	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Dimethyl phthalate	ND		950	110	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Fluoranthene	**880**	**J F1 F2**	950	100	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Fluorene	ND		950	110	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Hexachlorobenzene	ND		950	130	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Hexachlorobutadiene	ND		950	140	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Hexachlorocyclopentadiene	ND	F1	950	130	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Hexachloroethane	ND		950	120	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Indeno[1,2,3-cd]pyrene	**1200**		950	120	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Isophorone	ND		950	200	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
N-Nitrosodi-n-propylamine	ND		950	160	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
N-Nitrosodiphenylamine	ND		950	770	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Naphthalene	ND		950	120	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Nitrobenzene	ND		950	110	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Pentachlorophenol	ND		1800	950	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Phenanthrene	**190**	**J**	950	140	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Phenol	ND		950	140	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5
Pyrene	**1600**	**F1**	950	110	ug/Kg	☼	09/28/20 07:54	09/29/20 17:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*65*		*54 - 120*	*09/28/20 07:54*	*09/29/20 17:53*	*5*
2-Fluorobiphenyl	*81*		*60 - 120*	*09/28/20 07:54*	*09/29/20 17:53*	*5*
2-Fluorophenol	*76*		*52 - 120*	*09/28/20 07:54*	*09/29/20 17:53*	*5*
Nitrobenzene-d5	*72*		*53 - 120*	*09/28/20 07:54*	*09/29/20 17:53*	*5*
p-Terphenyl-d14	*74*	*X*	*79 - 130*	*09/28/20 07:54*	*09/29/20 17:53*	*5*
Phenol-d5	*77*		*54 - 120*	*09/28/20 07:54*	*09/29/20 17:53*	*5*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	**0.74**	**J**	0.89	0.23	mg/Kg	☼	09/28/20 08:59	09/28/20 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*46 - 156*	*09/28/20 08:59*	*09/28/20 15:34*	*1*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**450**		180	55	mg/Kg	☼	09/25/20 15:32	09/28/20 10:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*48 - 125*	*09/25/20 15:32*	*09/28/20 10:11*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F2 F1	0.26	0.052	mg/Kg	☼	09/30/20 16:21	10/01/20 21:20	1
PCB-1221	ND		0.26	0.052	mg/Kg	☼	09/30/20 16:21	10/01/20 21:20	1
PCB-1232	ND		0.26	0.052	mg/Kg	☼	09/30/20 16:21	10/01/20 21:20	1
PCB-1242	ND		0.26	0.052	mg/Kg	☼	09/30/20 16:21	10/01/20 21:20	1
PCB-1248	ND		0.26	0.052	mg/Kg	☼	09/30/20 16:21	10/01/20 21:20	1

Client Sample ID: SB-201 (10")
Lab Sample ID: 480-175593-2

Date Collected: 09/24/20 09:30
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		0.26	0.12	mg/Kg	☼	09/30/20 16:21	10/01/20 21:20	1
PCB-1260	ND	F2 F1	0.26	0.12	mg/Kg	☼	09/30/20 16:21	10/01/20 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*125*		*60 - 154*	*09/30/20 16:21*	*10/01/20 21:20*	*1*
Tetrachloro-m-xylene	*97*		*60 - 154*	*09/30/20 16:21*	*10/01/20 21:20*	*1*
DCB Decachlorobiphenyl	*117*		*65 - 174*	*09/30/20 16:21*	*10/01/20 21:20*	*1*
DCB Decachlorobiphenyl	*80*		*65 - 174*	*09/30/20 16:21*	*10/01/20 21:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13200**		11.4	5.0	mg/Kg	☼	09/28/20 17:35	09/30/20 13:19	1
Antimony	ND	F1	17.1	0.46	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Arsenic	**8.8**		2.3	0.46	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Barium	**110**	**^ F1**	0.57	0.13	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Beryllium	**0.53**		0.23	0.032	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Cadmium	**0.66**		0.23	0.034	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Calcium	**2560**	**B F1**	56.9	3.8	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Chromium	**19.8**		0.57	0.23	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Cobalt	**6.2**		0.57	0.057	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Copper	**42.9**		1.1	0.24	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Iron	**28200**		11.4	4.0	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Lead	**694**		1.1	0.27	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Magnesium	**3670**	**F1**	22.8	1.1	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Manganese	**321**	**B F2**	0.23	0.036	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Nickel	**18.6**		5.7	0.26	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Potassium	**2660**	**F1**	34.1	22.8	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Selenium	ND		4.6	0.46	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Silver	ND		0.68	0.23	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Sodium	**873**		159	14.8	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Thallium	ND		6.8	0.34	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Vanadium	**27.9**	**F1**	0.57	0.13	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1
Zinc	**122**	**F1**	2.3	0.73	mg/Kg	☼	09/28/20 17:35	09/29/20 18:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.019	0.0075	mg/Kg	☼	10/08/20 16:10	10/08/20 18:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**3.2**	**F1**	1.0	0.51	mg/Kg	☼	09/30/20 22:16	10/01/20 11:26	1

Client Sample ID: SB-205 (8")
Lab Sample ID: 480-175593-3

Date Collected: 09/24/20 10:50
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.6	0.33	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.75	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.1	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

Client Sample ID: SB-205 (8")
Lab Sample ID: 480-175593-3
Date Collected: 09/24/20 10:50
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		4.6	0.60	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
1,1-Dichloroethene	ND		4.6	0.56	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
1,2-Dibromo-3-Chloropropane	ND		4.6	2.3	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
1,2-Dichloroethane	ND		4.6	0.23	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
1,4-Dichlorobenzene	ND		4.6	0.65	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Acetone	ND		23	3.9	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Benzene	ND		4.6	0.23	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Bromomethane	ND		4.6	0.41	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Carbon tetrachloride	ND		4.6	0.45	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Chlorobenzene	ND		4.6	0.61	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Chloroform	ND		4.6	0.28	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Chloromethane	ND		4.6	0.28	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
cis-1,2-Dichloroethene	ND		4.6	0.59	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Cyclohexane	ND	*	4.6	0.65	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Bromodichloromethane	ND		4.6	0.62	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Dichlorodifluoromethane	ND		4.6	0.38	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
1,2-Dibromoethane	ND		4.6	0.59	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Isopropylbenzene	ND	*	4.6	0.69	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Methylene Chloride	ND		4.6	2.1	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Tetrachloroethene	ND	*	4.6	0.62	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Toluene	ND		4.6	0.35	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
trans-1,2-Dichloroethene	ND		4.6	0.48	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Trichloroethene	ND		4.6	1.0	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Trichlorofluoromethane	ND		4.6	0.44	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Xylenes, Total	ND		9.2	0.77	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
cis-1,3-Dichloropropene	ND		4.6	0.66	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1
Styrene	ND		4.6	0.23	ug/Kg	☼	09/25/20 10:00	09/28/20 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*09/25/20 10:00*	*09/28/20 23:55*	*1*
4-Bromofluorobenzene (Surr)	*90*		*72 - 126*	*09/25/20 10:00*	*09/28/20 23:55*	*1*
Toluene-d8 (Surr)	*106*		*71 - 125*	*09/25/20 10:00*	*09/28/20 23:55*	*1*

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

Client Sample ID: SB-205 (8")
Lab Sample ID: 480-175593-3
Date Collected: 09/24/20 10:50
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 94.2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*09/25/20 10:00*	*09/28/20 23:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		3600	530	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
bis (2-chloroisopropyl) ether	ND		3600	720	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
2,4,5-Trichlorophenol	ND		3600	970	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
2,4,6-Trichlorophenol	ND		3600	720	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
2,4-Dichlorophenol	ND		3600	380	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
2,4-Dimethylphenol	ND		3600	860	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
2,4-Dinitrophenol	ND		35000	16000	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
2,4-Dinitrotoluene	ND		3600	740	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
2,6-Dinitrotoluene	ND		3600	420	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
2-Chloronaphthalene	ND		3600	590	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
2-Chlorophenol	ND		6900	650	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
2-Methylnaphthalene	ND		3600	720	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
2-Methylphenol	ND		3600	420	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
2-Nitroaniline	ND		6900	530	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
2-Nitrophenol	ND		3600	1000	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
3,3'-Dichlorobenzidine	ND		6900	4200	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
3-Nitroaniline	ND		6900	990	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
4,6-Dinitro-2-methylphenol	ND		6900	3600	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
4-Bromophenyl phenyl ether	ND		3600	500	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
4-Chloro-3-methylphenol	ND		3600	880	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
4-Chloroaniline	ND		3600	880	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
4-Chlorophenyl phenyl ether	ND		3600	440	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
4-Methylphenol	ND		6900	420	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
4-Nitroaniline	ND		6900	1900	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
4-Nitrophenol	ND		6900	2500	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Acenaphthene	ND		3600	530	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Acenaphthylene	ND		3600	460	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Acetophenone	ND		3600	480	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Anthracene	ND		3600	880	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Atrazine	ND		3600	1200	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Benzaldehyde	ND		3600	2800	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Benzo[a]anthracene	ND		3600	360	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Benzo[a]pyrene	ND		3600	530	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Benzo[b]fluoranthene	ND		3600	570	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Benzo[g,h,i]perylene	ND		3600	380	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Benzo[k]fluoranthene	ND		3600	460	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Bis(2-chloroethoxy)methane	ND		3600	760	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Bis(2-chloroethyl)ether	ND		3600	460	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Bis(2-ethylhexyl) phthalate	ND		3600	1200	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Butyl benzyl phthalate	ND		3600	590	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Caprolactam	ND		3600	1100	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Carbazole	ND		3600	420	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Chrysene	ND		3600	800	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Di-n-butyl phthalate	ND		3600	610	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Di-n-octyl phthalate	ND		3600	420	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20

Client Sample ID: SB-205 (8")
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Date Collected: 09/24/20 10:50
Matrix: Solid
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Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		3600	630	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Dibenzofuran	ND		3600	420	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Diethyl phthalate	ND		3600	460	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Dimethyl phthalate	ND		3600	420	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Fluoranthene	ND		3600	380	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Fluorene	ND		3600	420	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Hexachlorobenzene	ND		3600	480	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Hexachlorobutadiene	ND		3600	530	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Hexachlorocyclopentadiene	ND		3600	480	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Hexachloroethane	ND		3600	460	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Indeno[1,2,3-cd]pyrene	ND		3600	440	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Isophorone	ND		3600	760	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
N-Nitrosodi-n-propylamine	ND		3600	610	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
N-Nitrosodiphenylamine	ND		3600	2900	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Naphthalene	ND		3600	460	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Nitrobenzene	ND		3600	400	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Pentachlorophenol	ND		6900	3600	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Phenanthrene	ND		3600	530	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Phenol	ND		3600	550	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20
Pyrene	ND		3600	420	ug/Kg	☼	09/28/20 07:54	09/28/20 19:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*54 - 120*	*09/28/20 07:54*	*09/28/20 19:30*	*20*
2-Fluorobiphenyl	*68*		*60 - 120*	*09/28/20 07:54*	*09/28/20 19:30*	*20*
2-Fluorophenol	*63*		*52 - 120*	*09/28/20 07:54*	*09/28/20 19:30*	*20*
Nitrobenzene-d5	*59*		*53 - 120*	*09/28/20 07:54*	*09/28/20 19:30*	*20*
p-Terphenyl-d14	*65*	*X*	*79 - 130*	*09/28/20 07:54*	*09/28/20 19:30*	*20*
Phenol-d5	*62*		*54 - 120*	*09/28/20 07:54*	*09/28/20 19:30*	*20*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.3	0.60	mg/Kg	☼	09/28/20 08:59	09/28/20 18:00	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*46 - 156*	*09/28/20 08:59*	*09/28/20 18:00*	*2*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		170	52	mg/Kg	☼	09/25/20 15:32	09/29/20 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*48 - 125*	*09/25/20 15:32*	*09/29/20 16:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.43	0.084	mg/Kg	☼	09/30/20 16:21	10/01/20 23:11	2
PCB-1221	ND		0.43	0.084	mg/Kg	☼	09/30/20 16:21	10/01/20 23:11	2
PCB-1232	ND		0.43	0.084	mg/Kg	☼	09/30/20 16:21	10/01/20 23:11	2
PCB-1242	ND		0.43	0.084	mg/Kg	☼	09/30/20 16:21	10/01/20 23:11	2
PCB-1248	ND		0.43	0.084	mg/Kg	☼	09/30/20 16:21	10/01/20 23:11	2
PCB-1254	ND		0.43	0.20	mg/Kg	☼	09/30/20 16:21	10/01/20 23:11	2

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Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.43	0.20	mg/Kg	☼	09/30/20 16:21	10/01/20 23:11	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*108*		*60 - 154*	*09/30/20 16:21*	*10/01/20 23:11*	*2*
Tetrachloro-m-xylene	*94*		*60 - 154*	*09/30/20 16:21*	*10/01/20 23:11*	*2*
DCB Decachlorobiphenyl	*100*		*65 - 174*	*09/30/20 16:21*	*10/01/20 23:11*	*2*
DCB Decachlorobiphenyl	*68*		*65 - 174*	*09/30/20 16:21*	*10/01/20 23:11*	*2*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12300**		11.2	4.9	mg/Kg	☼	09/28/20 17:35	09/30/20 13:30	1
Antimony	ND		16.8	0.45	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Arsenic	**6.5**		2.2	0.45	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Barium	**69.9**	^	0.56	0.12	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Beryllium	**0.60**		0.22	0.031	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Cadmium	**0.24**		0.22	0.034	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Calcium	**19700**	B	56.1	3.7	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Chromium	**15.9**		0.56	0.22	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Cobalt	**9.0**		0.56	0.056	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Copper	**24.8**		1.1	0.24	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Iron	**21500**		11.2	3.9	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Lead	**34.3**		1.1	0.27	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Magnesium	**10300**		22.4	1.0	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Manganese	**541**	B	0.22	0.036	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Nickel	**21.5**		5.6	0.26	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Potassium	**2260**		33.6	22.4	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Selenium	ND		4.5	0.45	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Silver	ND		0.67	0.22	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Sodium	**678**		157	14.6	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Thallium	ND		6.7	0.34	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Vanadium	**24.6**		0.56	0.12	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1
Zinc	**157**		2.2	0.72	mg/Kg	☼	09/28/20 17:35	09/29/20 18:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.018	0.0072	mg/Kg	☼	10/08/20 16:10	10/08/20 18:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.0	0.51	mg/Kg	☼	09/30/20 22:16	10/01/20 11:31	1

Client Sample ID: DUP-20200924
Lab Sample ID: 480-175593-5

Date Collected: 09/24/20 13:00
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.35	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.79	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
1,1,2-Trichloroethane	ND		4.9	0.63	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

Client Sample ID: DUP-20200924
Lab Sample ID: 480-175593-5
Date Collected: 09/24/20 13:00
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.4	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
1,2-Dichlorobenzene	ND		4.9	0.38	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
1,2-Dichloropropane	ND		4.9	2.4	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
1,4-Dichlorobenzene	ND		4.9	0.68	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
2-Butanone (MEK)	ND		24	1.8	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Acetone	ND		24	4.1	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Benzene	ND		4.9	0.24	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Bromoform	ND		4.9	2.4	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Bromomethane	ND		4.9	0.44	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Carbon disulfide	ND		4.9	2.4	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Carbon tetrachloride	ND		4.9	0.47	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Chlorobenzene	ND		4.9	0.64	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Chloroethane	ND		4.9	1.1	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Chloroform	ND		4.9	0.30	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Chloromethane	ND		4.9	0.29	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
cis-1,2-Dichloroethene	ND		4.9	0.63	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Cyclohexane	ND	*	4.9	0.68	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Bromodichloromethane	ND		4.9	0.65	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Dichlorodifluoromethane	ND		4.9	0.40	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Ethylbenzene	ND		4.9	0.34	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Isopropylbenzene	ND	*	4.9	0.74	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Methylcyclohexane	ND		4.9	0.74	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Methylene Chloride	ND		4.9	2.2	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Tetrachloroethene	ND	*	4.9	0.66	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Toluene	ND		4.9	0.37	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
trans-1,2-Dichloroethene	ND		4.9	0.50	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
trans-1,3-Dichloropropene	ND		4.9	2.1	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Trichloroethene	ND		4.9	1.1	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Trichlorofluoromethane	ND		4.9	0.46	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Vinyl chloride	ND		4.9	0.60	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Xylenes, Total	ND		9.8	0.82	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
cis-1,3-Dichloropropene	ND		4.9	0.70	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1
Styrene	ND		4.9	0.24	ug/Kg	☼	09/25/20 10:00	09/29/20 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*	*09/25/20 10:00*	*09/29/20 00:21*	*1*
4-Bromofluorobenzene (Surr)	*90*		*72 - 126*	*09/25/20 10:00*	*09/29/20 00:21*	*1*
Toluene-d8 (Surr)	*106*		*71 - 125*	*09/25/20 10:00*	*09/29/20 00:21*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*09/25/20 10:00*	*09/29/20 00:21*	*1*

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

Client Sample ID: DUP-20200924
Lab Sample ID: 480-175593-5
Date Collected: 09/24/20 13:00
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		3800	560	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
bis (2-chloroisopropyl) ether	ND		3800	760	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
2,4,5-Trichlorophenol	ND		3800	1000	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
2,4,6-Trichlorophenol	ND		3800	760	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
2,4-Dichlorophenol	ND		3800	400	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
2,4-Dimethylphenol	ND		3800	920	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
2,4-Dinitrophenol	ND		37000	18000	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
2,4-Dinitrotoluene	ND		3800	780	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
2,6-Dinitrotoluene	ND		3800	450	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
2-Chloronaphthalene	ND		3800	630	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
2-Chlorophenol	ND		7400	690	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
2-Methylnaphthalene	ND		3800	760	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
2-Methylphenol	ND		3800	450	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
2-Nitroaniline	ND		7400	560	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
2-Nitrophenol	ND		3800	1100	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
3,3'-Dichlorobenzidine	ND		7400	4500	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
3-Nitroaniline	ND		7400	1100	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
4,6-Dinitro-2-methylphenol	ND		7400	3800	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
4-Bromophenyl phenyl ether	ND		3800	540	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
4-Chloro-3-methylphenol	ND		3800	940	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
4-Chloroaniline	ND		3800	940	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
4-Chlorophenyl phenyl ether	ND		3800	470	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
4-Methylphenol	ND		7400	450	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
4-Nitroaniline	ND		7400	2000	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
4-Nitrophenol	ND		7400	2700	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Acenaphthene	ND		3800	560	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Acenaphthylene	ND		3800	490	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Acetophenone	ND		3800	510	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Anthracene	ND		3800	940	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Atrazine	ND		3800	1300	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Benzaldehyde	ND		3800	3000	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Benzo[a]anthracene	ND		3800	380	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Benzo[a]pyrene	ND		3800	560	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Benzo[b]fluoranthene	ND		3800	600	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Benzo[g,h,i]perylene	ND		3800	400	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Benzo[k]fluoranthene	ND		3800	490	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Bis(2-chloroethoxy)methane	ND		3800	810	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Bis(2-chloroethyl)ether	ND		3800	490	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Bis(2-ethylhexyl) phthalate	ND		3800	1300	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Butyl benzyl phthalate	ND		3800	630	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Caprolactam	ND		3800	1100	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Carbazole	ND		3800	450	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Chrysene	ND		3800	850	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Di-n-butyl phthalate	ND		3800	650	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Di-n-octyl phthalate	ND		3800	450	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Dibenz(a,h)anthracene	ND		3800	670	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Dibenzofuran	ND		3800	450	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Diethyl phthalate	ND		3800	490	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Dimethyl phthalate	ND		3800	450	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20

Client Sample ID: DUP-20200924
Lab Sample ID: 480-175593-5
Date Collected: 09/24/20 13:00
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		3800	400	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Fluorene	ND		3800	450	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Hexachlorobenzene	ND		3800	510	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Hexachlorobutadiene	ND		3800	560	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Hexachlorocyclopentadiene	ND		3800	510	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Hexachloroethane	ND		3800	490	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Indeno[1,2,3-cd]pyrene	ND		3800	470	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Isophorone	ND		3800	810	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
N-Nitrosodi-n-propylamine	ND		3800	650	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
N-Nitrosodiphenylamine	ND		3800	3100	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Naphthalene	ND		3800	490	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Nitrobenzene	ND		3800	430	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Pentachlorophenol	ND		7400	3800	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Phenanthrene	ND		3800	560	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Phenol	ND		3800	580	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20
Pyrene	ND		3800	450	ug/Kg	☼	09/28/20 07:54	09/28/20 19:54	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*66*		*54 - 120*	*09/28/20 07:54*	*09/28/20 19:54*	*20*
2-Fluorobiphenyl	*65*		*60 - 120*	*09/28/20 07:54*	*09/28/20 19:54*	*20*
2-Fluorophenol	*57*		*52 - 120*	*09/28/20 07:54*	*09/28/20 19:54*	*20*
Nitrobenzene-d5	*53*		*53 - 120*	*09/28/20 07:54*	*09/28/20 19:54*	*20*
p-Terphenyl-d14	*61*	*X*	*79 - 130*	*09/28/20 07:54*	*09/28/20 19:54*	*20*
Phenol-d5	*58*		*54 - 120*	*09/28/20 07:54*	*09/28/20 19:54*	*20*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.4	0.63	mg/Kg	☼	09/28/20 08:59	09/28/20 18:37	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*46 - 156*	*09/28/20 08:59*	*09/28/20 18:37*	*2*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**66**	**J**	190	56	mg/Kg	☼	09/25/20 15:32	09/29/20 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*48 - 125*	*09/25/20 15:32*	*09/29/20 17:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.048	mg/Kg	☼	09/30/20 16:21	10/02/20 00:00	1
PCB-1221	ND		0.24	0.048	mg/Kg	☼	09/30/20 16:21	10/02/20 00:00	1
PCB-1232	ND		0.24	0.048	mg/Kg	☼	09/30/20 16:21	10/02/20 00:00	1
PCB-1242	ND		0.24	0.048	mg/Kg	☼	09/30/20 16:21	10/02/20 00:00	1
PCB-1248	ND		0.24	0.048	mg/Kg	☼	09/30/20 16:21	10/02/20 00:00	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	09/30/20 16:21	10/02/20 00:00	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	09/30/20 16:21	10/02/20 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*103*		*60 - 154*	*09/30/20 16:21*	*10/02/20 00:00*	*1*

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

Client Sample ID: DUP-20200924
Lab Sample ID: 480-175593-5
Date Collected: 09/24/20 13:00
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*60 - 154*	*09/30/20 16:21*	*10/02/20 00:00*	*1*
DCB Decachlorobiphenyl	*97*		*65 - 174*	*09/30/20 16:21*	*10/02/20 00:00*	*1*
DCB Decachlorobiphenyl	*65*		*65 - 174*	*09/30/20 16:21*	*10/02/20 00:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13100**		11.4	5.0	mg/Kg	☼	09/28/20 17:35	09/30/20 13:34	1
Antimony	ND		17.1	0.46	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Arsenic	**6.8**		2.3	0.46	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Barium	**74.7**	^	0.57	0.13	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Beryllium	**0.63**		0.23	0.032	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Cadmium	**0.25**		0.23	0.034	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Calcium	**19200**	B	57.2	3.8	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Chromium	**18.0**		0.57	0.23	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Cobalt	**8.7**		0.57	0.057	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Copper	**27.8**		1.1	0.24	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Iron	**23000**		11.4	4.0	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Lead	**53.5**		1.1	0.27	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Magnesium	**6530**		22.9	1.1	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Manganese	**459**	B	0.23	0.037	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Nickel	**23.0**		5.7	0.26	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Potassium	**2420**		34.3	22.9	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Selenium	ND		4.6	0.46	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Silver	ND		0.69	0.23	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Sodium	**676**		160	14.9	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Thallium	ND		6.9	0.34	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Vanadium	**27.8**		0.57	0.13	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1
Zinc	**165**		2.3	0.73	mg/Kg	☼	09/28/20 17:35	09/29/20 18:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.021	0.0084	mg/Kg	☼	10/08/20 16:10	10/08/20 18:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1	0.51	mg/Kg	☼	09/30/20 22:16	10/01/20 11:33	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-175593-1	SB-203 (10")	104	82	113	102
480-175593-2	SB-201 (10")	101	88	106	99
480-175593-2 MS	SB-201 (10")	92	93	108	98
480-175593-2 MSD	SB-201 (10")	88	89	112	95
480-175593-3	SB-205 (8")	103	90	106	101
480-175593-5	DUP-20200924	102	90	106	99
LCS 480-551501/1-A	Lab Control Sample	97	97	104	98
MB 480-551501/2-A	Method Blank	101	93	100	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(79-130)	(54-120)
480-175593-1	SB-203 (10")	63	91	82	80	91	88
480-175593-2	SB-201 (10")	65	81	76	72	74 X	77
480-175593-2 MS	SB-201 (10")	89	97	85	84	89	92
480-175593-2 MSD	SB-201 (10")	83	96	88	81	86	99
480-175593-3	SB-205 (8")	64	68	63	59	65 X	62
480-175593-5	DUP-20200924	66	65	57	53	61 X	58
LCS 480-551450/2-A	Lab Control Sample	87	97	85	80	109	89
MB 480-551450/1-A	Method Blank	76	96	88	83	116	91

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		TFT2
Lab Sample ID	Client Sample ID	(46-156)
480-175593-1	SB-203 (10")	100
480-175593-2	SB-201 (10")	105
480-175593-2 MS	SB-201 (10")	90
480-175593-2 MSD	SB-201 (10")	93
480-175593-3	SB-205 (8")	100
480-175593-5	DUP-20200924	100
LCS 480-551469/2-A	Lab Control Sample	102

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)
		TFT2
Lab Sample ID	Client Sample ID	(46-156)
LCSD 480-551469/3-A	Lab Control Sample Dup	101
MB 480-551469/1-A	Method Blank	105

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015D - Diesel Range Organics (DRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH
Lab Sample ID	Client Sample ID	(48-125)
480-175593-1	SB-203 (10")	80
480-175593-2	SB-201 (10")	81
480-175593-2 MS	SB-201 (10")	101
480-175593-2 MSD	SB-201 (10")	77
480-175593-3	SB-205 (8")	91
480-175593-5	DUP-20200924	87
LCS 480-551310/2-A	Lab Control Sample	84
MB 480-551310/1-A	Method Blank	77

Surrogate Legend

OTPH = o-Terphenyl

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-175593-1	SB-203 (10")	85	91	68	99
480-175593-2	SB-201 (10")	97	125	80	117
480-175593-2 MS	SB-201 (10")	127	372 X	110	154
480-175593-2 MSD	SB-201 (10")	103	128	85	129
480-175593-3	SB-205 (8")	94	108	68	100
480-175593-5	DUP-20200924	84	103	65	97
LCS 480-551931/2-A	Lab Control Sample	113	139	118	153
MB 480-551931/1-A	Method Blank	108	117	102	129

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

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

Lab Sample ID: MB 480-551501/2-A
Matrix: Solid
Analysis Batch: 551556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
2-Hexanone	ND		25	2.5	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Acetone	ND		25	4.2	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Benzene	ND		5.0	0.25	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Bromoform	ND		5.0	2.5	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Bromomethane	ND		5.0	0.45	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Chloroethane	ND		5.0	1.1	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Chloroform	ND		5.0	0.31	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Chloromethane	ND		5.0	0.30	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Cyclohexane	ND		5.0	0.70	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Methyl acetate	ND		25	3.0	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Toluene	ND		5.0	0.38	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Trichloroethene	ND		5.0	1.1	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Xylenes, Total	ND		10	0.84	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		09/28/20 11:29	09/28/20 20:54	1
Styrene	ND		5.0	0.25	ug/Kg		09/28/20 11:29	09/28/20 20:54	1

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

Lab Sample ID: MB 480-551501/2-A
Matrix: Solid
Analysis Batch: 551556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551501

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*09/28/20 11:29*	*09/28/20 20:54*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*	*09/28/20 11:29*	*09/28/20 20:54*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*09/28/20 11:29*	*09/28/20 20:54*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 140*	*09/28/20 11:29*	*09/28/20 20:54*	*1*

Lab Sample ID: LCS 480-551501/1-A
Matrix: Solid
Analysis Batch: 551556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	57.8		ug/Kg		116	77 - 121
1,1,2,2-Tetrachloroethane	50.0	54.5		ug/Kg		109	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	62.7		ug/Kg		125	60 - 140
1,1,2-Trichloroethane	50.0	53.3		ug/Kg		107	78 - 122
1,1-Dichloroethane	50.0	54.5		ug/Kg		109	73 - 126
1,1-Dichloroethene	50.0	59.8		ug/Kg		120	59 - 125
1,2,4-Trichlorobenzene	50.0	59.9		ug/Kg		120	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	55.7		ug/Kg		111	63 - 124
1,2-Dichlorobenzene	50.0	55.8		ug/Kg		112	75 - 120
1,2-Dichloroethane	50.0	47.9		ug/Kg		96	77 - 122
1,2-Dichloropropane	50.0	51.8		ug/Kg		104	75 - 124
1,3-Dichlorobenzene	50.0	58.0		ug/Kg		116	74 - 120
1,4-Dichlorobenzene	50.0	57.4		ug/Kg		115	73 - 120
2-Butanone (MEK)	250	221		ug/Kg		88	70 - 134
2-Hexanone	250	258		ug/Kg		103	59 - 130
4-Methyl-2-pentanone (MIBK)	250	254		ug/Kg		102	65 - 133
Acetone	250	216		ug/Kg		86	61 - 137
Benzene	50.0	53.9		ug/Kg		108	79 - 127
Bromoform	50.0	50.5		ug/Kg		101	68 - 126
Bromomethane	50.0	48.2		ug/Kg		96	37 - 149
Carbon disulfide	50.0	56.5		ug/Kg		113	64 - 131
Carbon tetrachloride	50.0	61.2		ug/Kg		122	75 - 135
Chlorobenzene	50.0	56.4		ug/Kg		113	76 - 124
Dibromochloromethane	50.0	61.7		ug/Kg		123	76 - 125
Chloroethane	50.0	51.9		ug/Kg		104	69 - 135
Chloroform	50.0	51.5		ug/Kg		103	80 - 120
Chloromethane	50.0	43.9		ug/Kg		88	63 - 127
cis-1,2-Dichloroethene	50.0	53.5		ug/Kg		107	81 - 120
Cyclohexane	50.0	60.9	*	ug/Kg		122	65 - 120
Bromodichloromethane	50.0	54.3		ug/Kg		109	80 - 122
Dichlorodifluoromethane	50.0	42.8		ug/Kg		86	57 - 142
Ethylbenzene	50.0	58.6		ug/Kg		117	80 - 120
1,2-Dibromoethane	50.0	54.0		ug/Kg		108	78 - 120
Isopropylbenzene	50.0	60.6	*	ug/Kg		121	72 - 120
Methyl acetate	100	96.2		ug/Kg		96	55 - 136
Methyl tert-butyl ether	50.0	50.0		ug/Kg		100	63 - 125
Methylcyclohexane	50.0	60.9		ug/Kg		122	60 - 140
Methylene Chloride	50.0	51.3		ug/Kg		103	61 - 127

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

Lab Sample ID: LCS 480-551501/1-A
Matrix: Solid
Analysis Batch: 551556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551501

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Tetrachloroethene			50.0	62.9	*	ug/Kg		126	74 - 122		
Toluene			50.0	58.4		ug/Kg		117	74 - 128		
trans-1,2-Dichloroethene			50.0	56.7		ug/Kg		113	78 - 126		
trans-1,3-Dichloropropene			50.0	57.1		ug/Kg		114	73 - 123		
Trichloroethene			50.0	55.1		ug/Kg		110	77 - 129		
Trichlorofluoromethane			50.0	63.5		ug/Kg		127	65 - 146		
Vinyl chloride			50.0	51.7		ug/Kg		103	61 - 133		
cis-1,3-Dichloropropene			50.0	53.0		ug/Kg		106	80 - 120		
Styrene			50.0	54.6		ug/Kg		109	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 126*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*
Toluene-d8 (Surr)	*104*		*71 - 125*
Dibromofluoromethane (Surr)	*98*		*60 - 140*

Lab Sample ID: 480-175593-2 MS
Matrix: Solid
Analysis Batch: 551556

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane	ND		45.1	45.6		ug/Kg	☼	101	77 - 121		
1,1,2,2-Tetrachloroethane	ND		45.1	42.2		ug/Kg	☼	94	80 - 120		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		45.1	47.7		ug/Kg	☼	106	60 - 140		
1,1,2-Trichloroethane	ND		45.1	39.8		ug/Kg	☼	88	78 - 122		
1,1-Dichloroethane	ND		45.1	43.0		ug/Kg	☼	95	73 - 126		
1,1-Dichloroethene	ND		45.1	45.4		ug/Kg	☼	101	59 - 125		
1,2,4-Trichlorobenzene	ND	F1	45.1	22.8	F1	ug/Kg	☼	51	64 - 120		
1,2-Dibromo-3-Chloropropane	ND		45.1	33.6		ug/Kg	☼	74	63 - 124		
1,2-Dichlorobenzene	ND	F1	45.1	35.7		ug/Kg	☼	79	75 - 120		
1,2-Dichloroethane	ND	F1	45.1	37.0		ug/Kg	☼	82	77 - 122		
1,2-Dichloropropane	ND		45.1	40.7		ug/Kg	☼	90	75 - 124		
1,3-Dichlorobenzene	ND	F1	45.1	37.0		ug/Kg	☼	82	74 - 120		
1,4-Dichlorobenzene	ND	F1	45.1	36.1		ug/Kg	☼	80	73 - 120		
2-Butanone (MEK)	ND	F1	226	151	F1	ug/Kg	☼	67	70 - 134		
2-Hexanone	ND		226	179		ug/Kg	☼	79	59 - 130		
4-Methyl-2-pentanone (MIBK)	ND		226	187		ug/Kg	☼	83	65 - 133		
Acetone	ND	F1	226	139		ug/Kg	☼	61	61 - 137		
Benzene	ND		45.1	41.2		ug/Kg	☼	91	79 - 127		
Bromoform	ND	F1	45.1	30.3	F1	ug/Kg	☼	67	68 - 126		
Bromomethane	ND		45.1	40.6		ug/Kg	☼	90	37 - 149		
Carbon disulfide	ND		45.1	37.4		ug/Kg	☼	83	64 - 131		
Carbon tetrachloride	ND		45.1	46.2		ug/Kg	☼	102	75 - 135		
Chlorobenzene	ND		45.1	40.4		ug/Kg	☼	89	76 - 124		
Dibromochloromethane	ND		45.1	42.4		ug/Kg	☼	94	76 - 125		
Chloroethane	ND		45.1	43.3		ug/Kg	☼	96	69 - 135		
Chloroform	ND		45.1	40.9		ug/Kg	☼	91	80 - 120		
Chloromethane	ND		45.1	31.8		ug/Kg	☼	70	63 - 127		

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

Lab Sample ID: 480-175593-2 MS
Matrix: Solid
Analysis Batch: 551556

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	ND		45.1	41.5		ug/Kg	☼	92	80 - 120
Cyclohexane	ND	*	45.1	44.1		ug/Kg	☼	98	65 - 120
Bromodichloromethane	ND		45.1	40.1		ug/Kg	☼	89	80 - 122
Dichlorodifluoromethane	ND	F1	45.1	24.2	F1	ug/Kg	☼	54	57 - 142
Ethylbenzene	ND		45.1	42.6		ug/Kg	☼	94	80 - 120
1,2-Dibromoethane	ND	F1	45.1	36.6		ug/Kg	☼	81	78 - 120
Isopropylbenzene	ND	*	45.1	51.2		ug/Kg	☼	113	72 - 120
Methyl acetate	ND		90.2	93.0		ug/Kg	☼	103	55 - 136
Methyl tert-butyl ether	ND		45.1	41.1		ug/Kg	☼	91	63 - 125
Methylcyclohexane	ND		45.1	40.7		ug/Kg	☼	90	60 - 140
Methylene Chloride	ND		45.1	50.5		ug/Kg	☼	112	61 - 127
Tetrachloroethene	ND	*	45.1	44.5		ug/Kg	☼	99	74 - 122
Toluene	ND		45.1	44.8		ug/Kg	☼	99	74 - 128
trans-1,2-Dichloroethene	ND		45.1	43.0		ug/Kg	☼	95	78 - 126
trans-1,3-Dichloropropene	ND		45.1	40.1		ug/Kg	☼	89	73 - 123
Trichloroethene	ND	F1	45.1	40.0		ug/Kg	☼	89	77 - 129
Trichlorofluoromethane	ND		45.1	46.7		ug/Kg	☼	103	65 - 146
Vinyl chloride	ND		45.1	37.2		ug/Kg	☼	83	61 - 133
cis-1,3-Dichloropropene	ND	F1	45.1	37.7		ug/Kg	☼	84	80 - 120
Styrene	1.7	J	45.1	40.2		ug/Kg	☼	85	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 126*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*
Toluene-d8 (Surr)	*108*		*71 - 125*
Dibromofluoromethane (Surr)	*98*		*60 - 140*

Lab Sample ID: 480-175593-2 MSD
Matrix: Solid
Analysis Batch: 551556

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		53.0	48.6		ug/Kg	☼	92	77 - 121	6	30
1,1,2,2-Tetrachloroethane	ND		53.0	49.6		ug/Kg	☼	94	80 - 120	16	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		53.0	51.8		ug/Kg	☼	98	60 - 140	8	30
1,1,2-Trichloroethane	ND		53.0	44.8		ug/Kg	☼	85	78 - 122	12	30
1,1-Dichloroethane	ND		53.0	46.5		ug/Kg	☼	88	73 - 126	8	30
1,1-Dichloroethene	ND		53.0	48.1		ug/Kg	☼	91	59 - 125	6	30
1,2,4-Trichlorobenzene	ND	F1	53.0	18.0	F1	ug/Kg	☼	34	64 - 120	24	30
1,2-Dibromo-3-Chloropropane	ND		53.0	37.3		ug/Kg	☼	70	63 - 124	11	30
1,2-Dichlorobenzene	ND	F1	53.0	33.5	F1	ug/Kg	☼	63	75 - 120	6	30
1,2-Dichloroethane	ND	F1	53.0	40.2	F1	ug/Kg	☼	76	77 - 122	8	30
1,2-Dichloropropane	ND		53.0	43.3		ug/Kg	☼	82	75 - 124	6	30
1,3-Dichlorobenzene	ND	F1	53.0	34.2	F1	ug/Kg	☼	65	74 - 120	8	30
1,4-Dichlorobenzene	ND	F1	53.0	33.1	F1	ug/Kg	☼	62	73 - 120	9	30
2-Butanone (MEK)	ND	F1	265	164	F1	ug/Kg	☼	62	70 - 134	8	30
2-Hexanone	ND		265	203		ug/Kg	☼	77	59 - 130	13	30
4-Methyl-2-pentanone (MIBK)	ND		265	222		ug/Kg	☼	84	65 - 133	17	30

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

Lab Sample ID: 480-175593-2 MSD
Matrix: Solid
Analysis Batch: 551556

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND	F1	265	159	F1	ug/Kg	☼	60	61 - 137	14	30
Benzene	ND		53.0	43.5		ug/Kg	☼	82	79 - 127	5	30
Bromoform	ND	F1	53.0	29.8	F1	ug/Kg	☼	56	68 - 126	2	30
Bromomethane	ND		53.0	45.6		ug/Kg	☼	86	37 - 149	12	30
Carbon disulfide	ND		53.0	35.6		ug/Kg	☼	67	64 - 131	5	30
Carbon tetrachloride	ND		53.0	47.7		ug/Kg	☼	90	75 - 135	3	30
Chlorobenzene	ND		53.0	40.1		ug/Kg	☼	76	76 - 124	1	30
Dibromochloromethane	ND		53.0	43.9		ug/Kg	☼	83	76 - 125	4	30
Chloroethane	ND		53.0	48.7		ug/Kg	☼	92	69 - 135	12	30
Chloroform	ND		53.0	43.5		ug/Kg	☼	82	80 - 120	6	30
Chloromethane	ND		53.0	36.2		ug/Kg	☼	68	63 - 127	13	30
cis-1,2-Dichloroethene	ND		53.0	44.7		ug/Kg	☼	84	80 - 120	7	30
Cyclohexane	ND	*	53.0	43.1		ug/Kg	☼	81	65 - 120	2	30
Bromodichloromethane	ND		53.0	42.4		ug/Kg	☼	80	80 - 122	6	30
Dichlorodifluoromethane	ND	F1	53.0	27.1	F1	ug/Kg	☼	51	57 - 142	11	30
Ethylbenzene	ND		53.0	42.4		ug/Kg	☼	80	80 - 120	0	30
1,2-Dibromoethane	ND	F1	53.0	38.5	F1	ug/Kg	☼	73	78 - 120	5	30
Isopropylbenzene	ND	*	53.0	54.6		ug/Kg	☼	103	72 - 120	6	30
Methyl acetate	ND		106	111		ug/Kg	☼	105	55 - 136	18	30
Methyl tert-butyl ether	ND		53.0	47.4		ug/Kg	☼	89	63 - 125	14	30
Methylcyclohexane	ND		53.0	37.5		ug/Kg	☼	71	60 - 140	8	30
Methylene Chloride	ND		53.0	57.7		ug/Kg	☼	109	61 - 127	13	30
Tetrachloroethene	ND	*	53.0	43.3		ug/Kg	☼	82	74 - 122	3	30
Toluene	ND		53.0	47.9		ug/Kg	☼	90	74 - 128	7	30
trans-1,2-Dichloroethene	ND		53.0	45.7		ug/Kg	☼	86	78 - 126	6	30
trans-1,3-Dichloropropene	ND		53.0	42.9		ug/Kg	☼	81	73 - 123	7	30
Trichloroethene	ND	F1	53.0	39.4	F1	ug/Kg	☼	74	77 - 129	2	30
Trichlorofluoromethane	ND		53.0	50.4		ug/Kg	☼	95	65 - 146	8	30
Vinyl chloride	ND		53.0	41.0		ug/Kg	☼	77	61 - 133	10	30
cis-1,3-Dichloropropene	ND	F1	53.0	38.7	F1	ug/Kg	☼	73	80 - 120	3	30
Styrene	1.7	J	53.0	46.1		ug/Kg	☼	84	80 - 120	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*64 - 126*
4-Bromofluorobenzene (Surr)	*89*		*72 - 126*
Toluene-d8 (Surr)	*112*		*71 - 125*
Dibromofluoromethane (Surr)	*95*		*60 - 140*

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

Lab Sample ID: MB 480-551450/1-A
Matrix: Solid
Analysis Batch: 551551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		09/28/20 07:54	09/28/20 16:59	1

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

Lab Sample ID: MB 480-551450/1-A
Matrix: Solid
Analysis Batch: 551551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		170	18	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
2-Chloronaphthalene	ND		170	28	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
2-Chlorophenol	ND		330	31	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
2-Methylnaphthalene	ND		170	34	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
2-Methylphenol	ND		170	20	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
2-Nitroaniline	ND		330	25	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
2-Nitrophenol	ND		170	48	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
3-Nitroaniline	ND		330	47	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
4-Chloroaniline	ND		170	42	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
4-Methylphenol	ND		330	20	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
4-Nitroaniline	ND		330	89	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
4-Nitrophenol	ND		330	120	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Acenaphthene	ND		170	25	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Acenaphthylene	ND		170	22	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Acetophenone	ND		170	23	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Anthracene	ND		170	42	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Atrazine	ND		170	59	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Benzaldehyde	ND		170	130	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Benzo[a]anthracene	ND		170	17	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Benzo[a]pyrene	ND		170	25	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Caprolactam	ND		170	51	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Carbazole	ND		170	20	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Chrysene	ND		170	38	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Dibenzofuran	ND		170	20	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Diethyl phthalate	ND		170	22	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Dimethyl phthalate	ND		170	20	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Fluoranthene	ND		170	18	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Fluorene	ND		170	20	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Hexachlorobenzene	ND		170	23	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Hexachlorobutadiene	ND		170	25	ug/Kg		09/28/20 07:54	09/28/20 16:59	1

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

Lab Sample ID: MB 480-551450/1-A
Matrix: Solid
Analysis Batch: 551551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Hexachloroethane	ND		170	22	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Isophorone	ND		170	36	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Naphthalene	ND		170	22	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Nitrobenzene	ND		170	19	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Pentachlorophenol	ND		330	170	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Phenanthrene	ND		170	25	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Phenol	ND		170	26	ug/Kg		09/28/20 07:54	09/28/20 16:59	1
Pyrene	ND		170	20	ug/Kg		09/28/20 07:54	09/28/20 16:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*54 - 120*	*09/28/20 07:54*	*09/28/20 16:59*	*1*
2-Fluorobiphenyl	*96*		*60 - 120*	*09/28/20 07:54*	*09/28/20 16:59*	*1*
2-Fluorophenol	*88*		*52 - 120*	*09/28/20 07:54*	*09/28/20 16:59*	*1*
Nitrobenzene-d5	*83*		*53 - 120*	*09/28/20 07:54*	*09/28/20 16:59*	*1*
p-Terphenyl-d14	*116*		*79 - 130*	*09/28/20 07:54*	*09/28/20 16:59*	*1*
Phenol-d5	*91*		*54 - 120*	*09/28/20 07:54*	*09/28/20 16:59*	*1*

Lab Sample ID: LCS 480-551450/2-A
Matrix: Solid
Analysis Batch: 551551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1650	1610		ug/Kg		97	59 - 120
bis (2-chloroisopropyl) ether	1650	1100		ug/Kg		67	44 - 120
2,4,5-Trichlorophenol	1650	1670		ug/Kg		101	59 - 126
2,4,6-Trichlorophenol	1650	1640		ug/Kg		99	59 - 123
2,4-Dichlorophenol	1650	1550		ug/Kg		94	61 - 120
2,4-Dimethylphenol	1650	1400		ug/Kg		84	59 - 120
2,4-Dinitrophenol	3300	3430		ug/Kg		104	41 - 146
2,4-Dinitrotoluene	1650	1520		ug/Kg		92	63 - 120
2,6-Dinitrotoluene	1650	1570		ug/Kg		95	66 - 120
2-Chloronaphthalene	1650	1550		ug/Kg		94	57 - 120
2-Chlorophenol	1650	1430		ug/Kg		86	53 - 120
2-Methylnaphthalene	1650	1530		ug/Kg		93	59 - 120
2-Methylphenol	1650	1550		ug/Kg		94	54 - 120
2-Nitroaniline	1650	1370		ug/Kg		83	61 - 120
2-Nitrophenol	1650	1620		ug/Kg		98	56 - 120
3,3'-Dichlorobenzidine	3300	3310		ug/Kg		100	54 - 120
3-Nitroaniline	1650	1460		ug/Kg		88	48 - 120
4,6-Dinitro-2-methylphenol	3300	3820		ug/Kg		116	49 - 122
4-Bromophenyl phenyl ether	1650	1600		ug/Kg		97	58 - 120
4-Chloro-3-methylphenol	1650	1470		ug/Kg		89	61 - 120
4-Chloroaniline	1650	1320		ug/Kg		80	38 - 120
4-Chlorophenyl phenyl ether	1650	1500		ug/Kg		91	63 - 124

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

Lab Sample ID: LCS 480-551450/2-A
Matrix: Solid
Analysis Batch: 551551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methylphenol	1650	1530		ug/Kg		92	55 - 120
4-Nitroaniline	1650	1560		ug/Kg		94	56 - 120
4-Nitrophenol	3300	2450		ug/Kg		74	43 - 147
Acenaphthene	1650	1650		ug/Kg		100	62 - 120
Acenaphthylene	1650	1630		ug/Kg		99	58 - 121
Acetophenone	1650	1390		ug/Kg		84	54 - 120
Anthracene	1650	1760		ug/Kg		107	62 - 120
Atrazine	3300	2890		ug/Kg		87	60 - 127
Benzaldehyde	3300	2740	E	ug/Kg		83	10 - 150
Benzo[a]anthracene	1650	1740		ug/Kg		106	65 - 120
Benzo[a]pyrene	1650	1830		ug/Kg		111	64 - 120
Benzo[b]fluoranthene	1650	1900		ug/Kg		115	64 - 120
Benzo[g,h,i]perylene	1650	1620		ug/Kg		98	45 - 145
Benzo[k]fluoranthene	1650	1800		ug/Kg		109	65 - 120
Bis(2-chloroethoxy)methane	1650	1460		ug/Kg		88	55 - 120
Bis(2-chloroethyl)ether	1650	1430		ug/Kg		87	45 - 120
Bis(2-ethylhexyl) phthalate	1650	1800		ug/Kg		109	61 - 133
Butyl benzyl phthalate	1650	1800		ug/Kg		109	61 - 129
Caprolactam	3300	3230		ug/Kg		98	47 - 120
Carbazole	1650	1670		ug/Kg		101	65 - 120
Chrysene	1650	1750		ug/Kg		106	64 - 120
Di-n-butyl phthalate	1650	1600		ug/Kg		97	58 - 130
Di-n-octyl phthalate	1650	1640		ug/Kg		99	57 - 133
Dibenz(a,h)anthracene	1650	1630		ug/Kg		99	54 - 132
Dibenzofuran	1650	1600		ug/Kg		97	63 - 120
Diethyl phthalate	1650	1410		ug/Kg		85	66 - 120
Dimethyl phthalate	1650	1550		ug/Kg		94	65 - 124
Fluoranthene	1650	1620		ug/Kg		98	62 - 120
Fluorene	1650	1550		ug/Kg		94	63 - 120
Hexachlorobenzene	1650	1440		ug/Kg		87	60 - 120
Hexachlorobutadiene	1650	1340		ug/Kg		81	45 - 120
Hexachlorocyclopentadiene	1650	1360		ug/Kg		83	47 - 120
Hexachloroethane	1650	1270		ug/Kg		77	41 - 120
Indeno[1,2,3-cd]pyrene	1650	1600		ug/Kg		97	56 - 134
Isophorone	1650	1480		ug/Kg		90	56 - 120
N-Nitrosodi-n-propylamine	1650	1350		ug/Kg		82	52 - 120
Naphthalene	1650	1510		ug/Kg		91	55 - 120
Nitrobenzene	1650	1330		ug/Kg		80	54 - 120
Pentachlorophenol	3300	3240		ug/Kg		98	51 - 120
Phenanthrene	1650	1760		ug/Kg		106	60 - 120
Phenol	1650	1470		ug/Kg		89	53 - 120
Pyrene	1650	1940		ug/Kg		117	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*87*		*54 - 120*
2-Fluorobiphenyl	*97*		*60 - 120*
2-Fluorophenol	*85*		*52 - 120*
Nitrobenzene-d5	*80*		*53 - 120*

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

Lab Sample ID: LCS 480-551450/2-A
Matrix: Solid
Analysis Batch: 551551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551450

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl-d14	109		79 - 130
Phenol-d5	89		54 - 120

Lab Sample ID: 480-175593-2 MS
Matrix: Solid
Analysis Batch: 551697

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	ND		1850	1820		ug/Kg	☼	98	58 - 120
bis (2-chloroisopropyl) ether	ND		1850	1360		ug/Kg	☼	73	31 - 120
2,4,5-Trichlorophenol	ND		1850	1730		ug/Kg	☼	93	46 - 120
2,4,6-Trichlorophenol	ND		1850	1740		ug/Kg	☼	94	41 - 123
2,4-Dichlorophenol	ND		1850	1690		ug/Kg	☼	91	45 - 120
2,4-Dimethylphenol	ND		1850	1580		ug/Kg	☼	85	52 - 120
2,4-Dinitrophenol	ND		3700	4700	J	ug/Kg	☼	NC	41 - 146
2,4-Dinitrotoluene	ND		1850	2020		ug/Kg	☼	109	63 - 125
2,6-Dinitrotoluene	ND		1850	2010		ug/Kg	☼	108	66 - 120
2-Chloronaphthalene	ND		1850	1780		ug/Kg	☼	96	57 - 120
2-Chlorophenol	ND		1850	1640	J	ug/Kg	☼	89	43 - 120
2-Methylnaphthalene	ND		1850	1760		ug/Kg	☼	95	55 - 120
2-Methylphenol	ND		1850	1920		ug/Kg	☼	103	48 - 120
2-Nitroaniline	ND		1850	1490	J	ug/Kg	☼	80	61 - 120
2-Nitrophenol	ND		1850	2100		ug/Kg	☼	113	37 - 120
3,3'-Dichlorobenzidine	ND	F1	3700	1320	J F1	ug/Kg	☼	36	37 - 126
3-Nitroaniline	ND		1850	1730	J	ug/Kg	☼	94	48 - 120
4,6-Dinitro-2-methylphenol	ND		3700	4070		ug/Kg	☼	110	23 - 149
4-Bromophenyl phenyl ether	ND		1850	1680		ug/Kg	☼	91	58 - 120
4-Chloro-3-methylphenol	ND		1850	1720		ug/Kg	☼	93	49 - 125
4-Chloroaniline	ND		1850	1310		ug/Kg	☼	71	38 - 120
4-Chlorophenyl phenyl ether	ND		1850	1720		ug/Kg	☼	93	63 - 124
4-Methylphenol	ND		1850	1900		ug/Kg	☼	103	50 - 120
4-Nitroaniline	ND		1850	1980		ug/Kg	☼	107	47 - 120
4-Nitrophenol	ND		3700	3020		ug/Kg	☼	82	31 - 147
Acenaphthene	ND		1850	1900		ug/Kg	☼	103	60 - 120
Acenaphthylene	830	J	1850	2460		ug/Kg	☼	88	58 - 121
Acetophenone	360	J	1850	2010		ug/Kg	☼	89	47 - 120
Anthracene	ND		1850	2050		ug/Kg	☼	111	62 - 120
Atrazine	ND	F1 F2	3700	1690	F1	ug/Kg	☼	46	60 - 150
Benzaldehyde	ND		3700	3390		ug/Kg	☼	91	10 - 150
Benzo[a]anthracene	1300	F1 F2	1850	3150		ug/Kg	☼	101	65 - 120
Benzo[a]pyrene	1400	F1 F2	1850	3360		ug/Kg	☼	109	64 - 120
Benzo[b]fluoranthene	2100	F1 F2	1850	3410		ug/Kg	☼	69	10 - 150
Benzo[g,h,i]perylene	1500		1850	3450		ug/Kg	☼	104	45 - 145
Benzo[k]fluoranthene	1000		1850	3080		ug/Kg	☼	111	23 - 150
Bis(2-chloroethoxy)methane	ND		1850	1850		ug/Kg	☼	100	52 - 120
Bis(2-chloroethyl)ether	ND		1850	1840		ug/Kg	☼	99	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1850	1890		ug/Kg	☼	102	61 - 133
Butyl benzyl phthalate	ND		1850	1820		ug/Kg	☼	98	61 - 120

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

Lab Sample ID: 480-175593-2 MS
Matrix: Solid
Analysis Batch: 551697

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Caprolactam	ND		3700	4030		ug/Kg	☼	109	37 - 133
Carbazole	ND		1850	1910		ug/Kg	☼	103	59 - 120
Chrysene	1600	F1 F2	1850	3390		ug/Kg	☼	98	64 - 120
Di-n-butyl phthalate	ND		1850	1820		ug/Kg	☼	98	58 - 130
Di-n-octyl phthalate	ND		1850	1960		ug/Kg	☼	106	57 - 133
Dibenz(a,h)anthracene	350	J	1850	2200		ug/Kg	☼	100	54 - 132
Dibenzofuran	ND		1850	1760		ug/Kg	☼	95	62 - 120
Diethyl phthalate	ND		1850	1700		ug/Kg	☼	92	66 - 120
Dimethyl phthalate	ND		1850	1750		ug/Kg	☼	95	65 - 124
Fluoranthene	880	J F1 F2	1850	3110		ug/Kg	☼	120	62 - 120
Fluorene	ND		1850	1820		ug/Kg	☼	98	63 - 120
Hexachlorobenzene	ND		1850	1540		ug/Kg	☼	83	60 - 120
Hexachlorobutadiene	ND		1850	1510		ug/Kg	☼	82	45 - 120
Hexachlorocyclopentadiene	ND	F1	1850	215	J F1	ug/Kg	☼	12	31 - 120
Hexachloroethane	ND		1850	1550		ug/Kg	☼	84	21 - 120
Indeno[1,2,3-cd]pyrene	1200		1850	3090		ug/Kg	☼	104	56 - 134
Isophorone	ND		1850	1730		ug/Kg	☼	94	56 - 120
N-Nitrosodi-n-propylamine	ND		1850	1660		ug/Kg	☼	90	46 - 120
Naphthalene	ND		1850	1750		ug/Kg	☼	94	46 - 120
Nitrobenzene	ND		1850	1550		ug/Kg	☼	83	49 - 120
Pentachlorophenol	ND		3700	3160		ug/Kg	☼	85	25 - 136
Phenanthrene	190	J	1850	2140		ug/Kg	☼	105	60 - 122
Phenol	ND		1850	1640		ug/Kg	☼	89	50 - 120
Pyrene	1600	F1	1850	3550		ug/Kg	☼	104	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*89*		*54 - 120*
2-Fluorobiphenyl	*97*		*60 - 120*
2-Fluorophenol	*85*		*52 - 120*
Nitrobenzene-d5	*84*		*53 - 120*
p-Terphenyl-d14	*89*		*79 - 130*
Phenol-d5	*92*		*54 - 120*

Lab Sample ID: 480-175593-2 MSD
Matrix: Solid
Analysis Batch: 551697

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biphenyl	ND		1850	1770		ug/Kg	☼	95	58 - 120	3	20
bis (2-chloroisopropyl) ether	ND		1850	1350		ug/Kg	☼	73	31 - 120	1	24
2,4,5-Trichlorophenol	ND		1850	1730		ug/Kg	☼	94	46 - 120	0	18
2,4,6-Trichlorophenol	ND		1850	1710		ug/Kg	☼	92	41 - 123	2	19
2,4-Dichlorophenol	ND		1850	1690		ug/Kg	☼	91	45 - 120	0	19
2,4-Dimethylphenol	ND		1850	1650		ug/Kg	☼	89	52 - 120	5	42
2,4-Dinitrophenol	ND		3710	ND		ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	ND		1850	1970		ug/Kg	☼	106	63 - 125	3	20
2,6-Dinitrotoluene	ND		1850	1870		ug/Kg	☼	101	66 - 120	7	15
2-Chloronaphthalene	ND		1850	1760		ug/Kg	☼	95	57 - 120	1	21

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

Lab Sample ID: 480-175593-2 MSD
Client Sample ID: SB-201 (10")
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 551697
Prep Batch: 551450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorophenol	ND		1850	1710	J	ug/Kg	☼	92	43 - 120	4	25
2-Methylnaphthalene	ND		1850	1810		ug/Kg	☼	97	55 - 120	2	21
2-Methylphenol	ND		1850	1900		ug/Kg	☼	103	48 - 120	1	27
2-Nitroaniline	ND		1850	1660	J	ug/Kg	☼	90	61 - 120	11	15
2-Nitrophenol	ND		1850	2190		ug/Kg	☼	118	37 - 120	5	18
3,3'-Dichlorobenzidine	ND	F1	3710	ND	F1	ug/Kg	☼	0	37 - 126	NC	25
3-Nitroaniline	ND		1850	1630	J	ug/Kg	☼	88	48 - 120	6	19
4,6-Dinitro-2-methylphenol	ND		3710	4140		ug/Kg	☼	112	23 - 149	2	15
4-Bromophenyl phenyl ether	ND		1850	1600		ug/Kg	☼	86	58 - 120	5	15
4-Chloro-3-methylphenol	ND		1850	1850		ug/Kg	☼	100	49 - 125	7	27
4-Chloroaniline	ND		1850	1140		ug/Kg	☼	62	38 - 120	13	22
4-Chlorophenyl phenyl ether	ND		1850	1750		ug/Kg	☼	94	63 - 124	2	16
4-Methylphenol	ND		1850	1900		ug/Kg	☼	102	50 - 120	0	24
4-Nitroaniline	ND		1850	1650	J	ug/Kg	☼	89	47 - 120	18	24
4-Nitrophenol	ND		3710	3150		ug/Kg	☼	85	31 - 147	4	25
Acenaphthene	ND		1850	1910		ug/Kg	☼	103	60 - 120	1	35
Acenaphthylene	830	J	1850	2760		ug/Kg	☼	104	58 - 121	11	18
Acetophenone	360	J	1850	2130		ug/Kg	☼	96	47 - 120	6	20
Anthracene	ND		1850	2070		ug/Kg	☼	112	62 - 120	1	15
Atrazine	ND	F1 F2	3710	1350	F1 F2	ug/Kg	☼	36	60 - 150	23	20
Benzaldehyde	ND		3710	3340		ug/Kg	☼	90	10 - 150	1	20
Benzo[a]anthracene	1300	F1 F2	1850	4150	F1 F2	ug/Kg	☼	156	65 - 120	28	15
Benzo[a]pyrene	1400	F1 F2	1850	4760	F1 F2	ug/Kg	☼	184	64 - 120	34	15
Benzo[b]fluoranthene	2100	F1 F2	1850	5130	F1 F2	ug/Kg	☼	161	10 - 150	40	15
Benzo[g,h,i]perylene	1500		1850	3650		ug/Kg	☼	115	45 - 145	6	15
Benzo[k]fluoranthene	1000		1850	3520		ug/Kg	☼	135	23 - 150	13	22
Bis(2-chloroethoxy)methane	ND		1850	1800		ug/Kg	☼	97	52 - 120	3	17
Bis(2-chloroethyl)ether	ND		1850	1670		ug/Kg	☼	90	45 - 120	10	21
Bis(2-ethylhexyl) phthalate	ND		1850	1880		ug/Kg	☼	101	61 - 133	1	15
Butyl benzyl phthalate	ND		1850	1850		ug/Kg	☼	100	61 - 120	2	16
Caprolactam	ND		3710	4110		ug/Kg	☼	111	37 - 133	2	20
Carbazole	ND		1850	1900		ug/Kg	☼	102	59 - 120	1	20
Chrysene	1600	F1 F2	1850	4410	F1 F2	ug/Kg	☼	153	64 - 120	26	15
Di-n-butyl phthalate	ND		1850	1810		ug/Kg	☼	98	58 - 130	0	15
Di-n-octyl phthalate	ND		1850	1900		ug/Kg	☼	103	57 - 133	3	16
Dibenz(a,h)anthracene	350	J	1850	2120		ug/Kg	☼	96	54 - 132	3	15
Dibenzofuran	ND		1850	1770		ug/Kg	☼	95	62 - 120	0	15
Diethyl phthalate	ND		1850	1750		ug/Kg	☼	95	66 - 120	3	15
Dimethyl phthalate	ND		1850	1770		ug/Kg	☼	96	65 - 124	1	15
Fluoranthene	880	J F1 F2	1850	4520	F1 F2	ug/Kg	☼	196	62 - 120	37	15
Fluorene	ND		1850	1840		ug/Kg	☼	99	63 - 120	1	15
Hexachlorobenzene	ND		1850	1510		ug/Kg	☼	81	60 - 120	2	15
Hexachlorobutadiene	ND		1850	1520		ug/Kg	☼	82	45 - 120	1	44
Hexachlorocyclopentadiene	ND	F1	1850	ND	F1	ug/Kg	☼	0	31 - 120	NC	49
Hexachloroethane	ND		1850	1650		ug/Kg	☼	89	21 - 120	6	46
Indeno[1,2,3-cd]pyrene	1200		1850	3500		ug/Kg	☼	126	56 - 134	12	15
Isophorone	ND		1850	1760		ug/Kg	☼	95	56 - 120	1	17
N-Nitrosodi-n-propylamine	ND		1850	1600		ug/Kg	☼	86	46 - 120	4	31
Naphthalene	ND		1850	1870		ug/Kg	☼	101	46 - 120	7	29

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

Lab Sample ID: 480-175593-2 MSD
Client Sample ID: SB-201 (10")
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 551697
Prep Batch: 551450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrobenzene	ND		1850	1470		ug/Kg	☼	79	49 - 120	5	24
Pentachlorophenol	ND		3710	3080		ug/Kg	☼	83	25 - 136	3	35
Phenanthrene	190	J	1850	2270		ug/Kg	☼	113	60 - 122	6	15
Phenol	ND		1850	1620		ug/Kg	☼	88	50 - 120	1	35
Pyrene	1600	F1	1850	4790	F1	ug/Kg	☼	170	61 - 133	30	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*83*		*54 - 120*
2-Fluorobiphenyl	*96*		*60 - 120*
2-Fluorophenol	*88*		*52 - 120*
Nitrobenzene-d5	*81*		*53 - 120*
p-Terphenyl-d14	*86*		*79 - 130*
Phenol-d5	*99*		*54 - 120*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 480-551469/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 551472
Prep Batch: 551469

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		1.3	0.33	mg/Kg		09/28/20 08:59	09/28/20 09:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*46 - 156*	*09/28/20 08:59*	*09/28/20 09:29*	*1*

Lab Sample ID: LCS 480-551469/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 551472
Prep Batch: 551469

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C6-C10)			10.0	9.33		mg/Kg		93	64 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*102*		*46 - 156*

Lab Sample ID: LCSD 480-551469/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 551472
Prep Batch: 551469

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C6-C10)			10.0	9.22		mg/Kg		92	64 - 129	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*101*		*46 - 156*

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 480-175593-2 MS
Matrix: Solid
Analysis Batch: 551472

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551469

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C6-C10)	0.74	J	8.51	8.21		mg/Kg	☼	88	41 - 142

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*90*		*46 - 156*

Lab Sample ID: 480-175593-2 MSD
Matrix: Solid
Analysis Batch: 551472

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551469

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C6-C10)	0.74	J	9.18	8.22		mg/Kg	☼	81	41 - 142	0	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*93*		*46 - 156*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-551310/1-A
Matrix: Solid
Analysis Batch: 551437

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		16	4.9	mg/Kg		09/25/20 15:32	09/28/20 07:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*48 - 125*	*09/25/20 15:32*	*09/28/20 07:47*	*1*

Lab Sample ID: LCS 480-551310/2-A
Matrix: Solid
Analysis Batch: 551437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551310

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	49.4	42.5		mg/Kg		86	63 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*84*		*48 - 125*

Lab Sample ID: 480-175593-2 MS
Matrix: Solid
Analysis Batch: 551571

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551310

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	450		54.8	475	4	mg/Kg	☼	43	43 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*101*		*48 - 125*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: 480-175593-2 MSD
Matrix: Solid
Analysis Batch: 551571

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551310

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	450		55.6	414	4	mg/Kg	☼	-66	43 - 150	14	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*77*		*48 - 125*

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

Lab Sample ID: MB 480-551931/1-A
Matrix: Solid
Analysis Batch: 552096

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551931

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg		09/30/20 16:21	10/01/20 20:06	1
PCB-1221	ND		0.22	0.043	mg/Kg		09/30/20 16:21	10/01/20 20:06	1
PCB-1232	ND		0.22	0.043	mg/Kg		09/30/20 16:21	10/01/20 20:06	1
PCB-1242	ND		0.22	0.043	mg/Kg		09/30/20 16:21	10/01/20 20:06	1
PCB-1248	ND		0.22	0.043	mg/Kg		09/30/20 16:21	10/01/20 20:06	1
PCB-1254	ND		0.22	0.10	mg/Kg		09/30/20 16:21	10/01/20 20:06	1
PCB-1260	ND		0.22	0.10	mg/Kg		09/30/20 16:21	10/01/20 20:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*		*60 - 154*	*09/30/20 16:21*	*10/01/20 20:06*	*1*
Tetrachloro-m-xylene	*108*		*60 - 154*	*09/30/20 16:21*	*10/01/20 20:06*	*1*
DCB Decachlorobiphenyl	*129*		*65 - 174*	*09/30/20 16:21*	*10/01/20 20:06*	*1*
DCB Decachlorobiphenyl	*102*		*65 - 174*	*09/30/20 16:21*	*10/01/20 20:06*	*1*

Lab Sample ID: LCS 480-551931/2-A
Matrix: Solid
Analysis Batch: 552096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551931

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.95	2.38		mg/Kg		122	51 - 185		
PCB-1260			1.95	2.58		mg/Kg		132	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*139*		*60 - 154*
Tetrachloro-m-xylene	*113*		*60 - 154*
DCB Decachlorobiphenyl	*153*		*65 - 174*
DCB Decachlorobiphenyl	*118*		*65 - 174*

Lab Sample ID: 480-175593-2 MS
Matrix: Solid
Analysis Batch: 552096

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551931

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND	F2 F1	2.09	5.94	F1	mg/Kg	☼	283	50 - 177		
PCB-1260	ND	F2 F1	2.09	11.2	F1	mg/Kg	☼	533	33 - 200		

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

Lab Sample ID: 480-175593-2 MS
Matrix: Solid
Analysis Batch: 552096

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551931

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*372*	*X*	*60 - 154*
Tetrachloro-m-xylene	*127*		*60 - 154*
DCB Decachlorobiphenyl	*154*		*65 - 174*
DCB Decachlorobiphenyl	*110*		*65 - 174*

Lab Sample ID: 480-175593-2 MSD
Matrix: Solid
Analysis Batch: 552096

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551931

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F2 F1	2.15	2.70	F2	mg/Kg	☼	125	50 - 177	75	50
PCB-1260	ND	F2 F1	2.15	5.86	F1 F2	mg/Kg	☼	272	33 - 200	62	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*128*		*60 - 154*
Tetrachloro-m-xylene	*103*		*60 - 154*
DCB Decachlorobiphenyl	*129*		*65 - 174*
DCB Decachlorobiphenyl	*85*		*65 - 174*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-551369/1-A
Matrix: Solid
Analysis Batch: 551844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551369

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		14.6	0.39	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Arsenic	ND		1.9	0.39	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Barium	ND	^	0.49	0.11	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Beryllium	ND		0.19	0.027	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Cadmium	ND		0.19	0.029	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Calcium	3.85	J	48.6	3.2	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Chromium	ND		0.49	0.19	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Cobalt	ND		0.49	0.049	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Copper	ND		0.97	0.20	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Iron	ND		9.7	3.4	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Lead	ND		0.97	0.23	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Magnesium	ND		19.5	0.90	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Manganese	0.0389	J	0.19	0.031	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Nickel	ND		4.9	0.22	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Potassium	ND		29.2	19.5	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Selenium	ND		3.9	0.39	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Silver	ND		0.58	0.19	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Sodium	ND		136	12.6	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Thallium	ND		5.8	0.29	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Vanadium	ND		0.49	0.11	mg/Kg		09/28/20 17:35	09/29/20 17:17	1
Zinc	ND		1.9	0.62	mg/Kg		09/28/20 17:35	09/29/20 17:17	1

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

Lab Sample ID: MB 480-551369/1-A
Matrix: Solid
Analysis Batch: 551942

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551369

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.7	4.3	mg/Kg		09/28/20 17:35	09/30/20 12:15	1

Lab Sample ID: LCSSRM 480-551369/2-A
Matrix: Solid
Analysis Batch: 551844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551369

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	206	67.74		mg/Kg		32.9	10.0 - 123.8
Arsenic	106	88.93		mg/Kg		83.9	64.4 - 119.8
Barium	340	293.3	^	mg/Kg		86.3	70.6 - 117.6
Beryllium	43.8	38.02		mg/Kg		86.8	71.0 - 118.3
Cadmium	125	102.7		mg/Kg		82.1	68.4 - 114.4
Calcium	5190	4419		mg/Kg		85.1	66.1 - 116.0
Chromium	158	142.2		mg/Kg		90.0	65.2 - 120.9
Cobalt	48.5	47.99		mg/Kg		99.0	72.4 - 120.4
Copper	102	87.92		mg/Kg		86.2	71.9 - 119.6
Iron	15000	15480		mg/Kg		103.2	32.7 - 154.7
Lead	106	110.5		mg/Kg		104.2	69.8 - 127.4
Magnesium	2570	2302		mg/Kg		89.6	55.6 - 124.1
Manganese	287	259.1		mg/Kg		90.3	71.8 - 122.3
Nickel	130	124.1		mg/Kg		95.5	64.0 - 119.2
Potassium	2420	2237		mg/Kg		92.5	49.6 - 118.6
Selenium	103	83.39		mg/Kg		81.0	58.3 - 122.3
Silver	34.0	30.03		mg/Kg		88.3	64.4 - 123.8
Sodium	161	155.8		mg/Kg		96.8	38.0 - 154.0
Thallium	113	108.8		mg/Kg		96.3	61.9 - 121.2
Vanadium	189	162.3		mg/Kg		85.8	67.7 - 116.4
Zinc	222	192.8		mg/Kg		86.9	66.7 - 123.9

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

Lab Sample ID: LCSSRM 480-551369/2-A
Matrix: Solid
Analysis Batch: 551942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551369

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			10100	11220		mg/Kg		111.0	42.4 - 125.7		

Lab Sample ID: 480-175593-2 MS
Matrix: Solid
Analysis Batch: 551844

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551369

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony	ND	F1	46.2	22.05	F1	mg/Kg	☼	48	75 - 125		
Arsenic	8.8		46.2	48.96		mg/Kg	☼	87	75 - 125		
Barium	110	^ F1	46.2	217.9	^ F1	mg/Kg	☼	233	75 - 125		
Beryllium	0.53		46.2	43.69		mg/Kg	☼	93	75 - 125		
Cadmium	0.66		46.2	41.47		mg/Kg	☼	88	75 - 125		
Calcium	2560	B F1	2310	3479	F1	mg/Kg	☼	40	75 - 125		
Chromium	19.8		46.2	71.27		mg/Kg	☼	111	75 - 125		
Cobalt	6.2		46.2	52.53		mg/Kg	☼	100	75 - 125		
Copper	42.9		46.2	79.08		mg/Kg	☼	78	75 - 125		
Iron	28200		2310	30470	4	mg/Kg	☼	98	75 - 125		
Lead	694		46.2	256.6	4	mg/Kg	☼	-947	75 - 125		
Magnesium	3670	F1	2310	6668	F1	mg/Kg	☼	130	75 - 125		
Manganese	321	B F2	46.2	356.9	4	mg/Kg	☼	77	75 - 125		
Nickel	18.6		46.2	63.89		mg/Kg	☼	98	75 - 125		
Potassium	2660	F1	2310	8493	F1	mg/Kg	☼	252	75 - 125		
Selenium	ND		46.2	40.12		mg/Kg	☼	87	75 - 125		
Silver	ND		11.6	11.15		mg/Kg	☼	96	75 - 125		
Sodium	873		2320	3441		mg/Kg	☼	111	75 - 125		
Thallium	ND		46.2	43.87		mg/Kg	☼	95	75 - 125		
Vanadium	27.9	F1	46.2	83.52		mg/Kg	☼	120	75 - 125		
Zinc	122	F1	46.2	131.9	F1	mg/Kg	☼	20	75 - 125		

Lab Sample ID: 480-175593-2 MS
Matrix: Solid
Analysis Batch: 551942

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551369

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum	13200		2310	25540	4	mg/Kg	☼	536	75 - 125		

Lab Sample ID: 480-175593-2 MSD
Matrix: Solid
Analysis Batch: 551844

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551369

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	45.5	21.28	F1	mg/Kg	☼	47	75 - 125	4	20
Arsenic	8.8		45.5	50.09		mg/Kg	☼	91	75 - 125	2	20
Barium	110	^ F1	45.5	199.0	^ F1	mg/Kg	☼	195	75 - 125	9	20
Beryllium	0.53		45.5	43.58		mg/Kg	☼	95	75 - 125	0	20
Cadmium	0.66		45.5	40.97		mg/Kg	☼	89	75 - 125	1	20
Calcium	2560	B F1	2280	3659	F1	mg/Kg	☼	48	75 - 125	5	20
Chromium	19.8		45.5	72.58		mg/Kg	☼	116	75 - 125	2	20

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

Lab Sample ID: 480-175593-2 MSD
Matrix: Solid
Analysis Batch: 551844

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551369

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	6.2		45.5	51.29		mg/Kg	☼	99	75 - 125	2	20
Copper	42.9		45.5	82.49		mg/Kg	☼	87	75 - 125	4	20
Iron	28200		2280	33690	4	mg/Kg	☼	241	75 - 125	10	20
Lead	694		45.5	229.3	4	mg/Kg	☼	-1021	75 - 125	11	20
Magnesium	3670	F1	2280	6383		mg/Kg	☼	119	75 - 125	4	20
Manganese	321	B F2	45.5	282.7	4 F2	mg/Kg	☼	-84	75 - 125	23	20
Nickel	18.6		45.5	63.05		mg/Kg	☼	98	75 - 125	1	20
Potassium	2660	F1	2280	9084	F1	mg/Kg	☼	282	75 - 125	7	20
Selenium	ND		45.5	40.69		mg/Kg	☼	89	75 - 125	1	20
Silver	ND		11.4	10.93		mg/Kg	☼	96	75 - 125	2	20
Sodium	873		2280	3220		mg/Kg	☼	103	75 - 125	7	20
Thallium	ND		45.5	43.80		mg/Kg	☼	96	75 - 125	0	20
Vanadium	27.9	F1	45.5	86.44	F1	mg/Kg	☼	129	75 - 125	3	20
Zinc	122	F1	45.5	117.4	F1	mg/Kg	☼	-11	75 - 125	12	20

Lab Sample ID: 480-175593-2 MSD
Matrix: Solid
Analysis Batch: 551942

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551369

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	13200		2280	26060	4	mg/Kg	☼	566	75 - 125	2	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-553034/1-A
Matrix: Solid
Analysis Batch: 553159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553034

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019	0.0076	mg/Kg		10/08/20 16:10	10/08/20 18:12	1

Lab Sample ID: LCSSRM 480-553034/2-A ^5
Matrix: Solid
Analysis Batch: 553159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553034

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.79	6.00		mg/Kg		103.6	62.2 - 144.9		

Lab Sample ID: 480-175593-2 MS
Matrix: Solid
Analysis Batch: 553159

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 553034

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.20		0.289	0.538		mg/Kg	☼	116	80 - 120		

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 480-175593-2 MSD
Matrix: Solid
Analysis Batch: 553159

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 553034

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20		0.284	0.516		mg/Kg	☼	110	80 - 120	4	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-551978/1-A
Matrix: Solid
Analysis Batch: 552079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.99	0.48	mg/Kg		09/30/20 22:16	10/01/20 11:23	1

Lab Sample ID: LCSSRM 480-551978/2-A ^20
Matrix: Solid
Analysis Batch: 552079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551978

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	86.4	34.44		mg/Kg		39.9	29.1 - 119.2

Lab Sample ID: 480-175593-2 MS
Matrix: Solid
Analysis Batch: 552079

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	3.2	F1	1.13	2.41	F1	mg/Kg	☼	-68	85 - 115

Lab Sample ID: 480-175593-2 MSD
Matrix: Solid
Analysis Batch: 552079

Client Sample ID: SB-201 (10")
Prep Type: Total/NA
Prep Batch: 551978

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	3.2	F1	1.18	2.59	F1	mg/Kg	☼	-50	85 - 115	7	15

GC/MS VOA

Prep Batch: 551501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	5035A_L	
480-175593-2	SB-201 (10")	Total/NA	Solid	5035A_L	
480-175593-3	SB-205 (8")	Total/NA	Solid	5035A_L	
480-175593-5	DUP-20200924	Total/NA	Solid	5035A_L	
MB 480-551501/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-551501/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	5035A_L	
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	5035A_L	

Analysis Batch: 551556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	8260C	551501
480-175593-2	SB-201 (10")	Total/NA	Solid	8260C	551501
480-175593-3	SB-205 (8")	Total/NA	Solid	8260C	551501
480-175593-5	DUP-20200924	Total/NA	Solid	8260C	551501
MB 480-551501/2-A	Method Blank	Total/NA	Solid	8260C	551501
LCS 480-551501/1-A	Lab Control Sample	Total/NA	Solid	8260C	551501
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	8260C	551501
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	8260C	551501

GC/MS Semi VOA

Prep Batch: 551450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	3550C	
480-175593-2	SB-201 (10")	Total/NA	Solid	3550C	
480-175593-3	SB-205 (8")	Total/NA	Solid	3550C	
480-175593-5	DUP-20200924	Total/NA	Solid	3550C	
MB 480-551450/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-551450/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	3550C	
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	3550C	

Analysis Batch: 551551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-3	SB-205 (8")	Total/NA	Solid	8270D	551450
480-175593-5	DUP-20200924	Total/NA	Solid	8270D	551450
MB 480-551450/1-A	Method Blank	Total/NA	Solid	8270D	551450
LCS 480-551450/2-A	Lab Control Sample	Total/NA	Solid	8270D	551450

Analysis Batch: 551697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	8270D	551450
480-175593-2	SB-201 (10")	Total/NA	Solid	8270D	551450
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	8270D	551450
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	8270D	551450

GC VOA

Prep Batch: 551469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	5035A_H	

GC VOA (Continued)

Prep Batch: 551469 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-2	SB-201 (10")	Total/NA	Solid	5035A_H	
480-175593-3	SB-205 (8")	Total/NA	Solid	5035A_H	
480-175593-5	DUP-20200924	Total/NA	Solid	5035A_H	
MB 480-551469/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-551469/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-551469/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	5035A_H	
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	5035A_H	

Analysis Batch: 551472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	8015D	551469
480-175593-2	SB-201 (10")	Total/NA	Solid	8015D	551469
480-175593-3	SB-205 (8")	Total/NA	Solid	8015D	551469
480-175593-5	DUP-20200924	Total/NA	Solid	8015D	551469
MB 480-551469/1-A	Method Blank	Total/NA	Solid	8015D	551469
LCS 480-551469/2-A	Lab Control Sample	Total/NA	Solid	8015D	551469
LCSD 480-551469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	551469
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	8015D	551469
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	8015D	551469

GC Semi VOA

Prep Batch: 551310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	3550C	
480-175593-2	SB-201 (10")	Total/NA	Solid	3550C	
480-175593-3	SB-205 (8")	Total/NA	Solid	3550C	
480-175593-5	DUP-20200924	Total/NA	Solid	3550C	
MB 480-551310/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-551310/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	3550C	
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	3550C	

Analysis Batch: 551437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-2	SB-201 (10")	Total/NA	Solid	8015D	551310
MB 480-551310/1-A	Method Blank	Total/NA	Solid	8015D	551310
LCS 480-551310/2-A	Lab Control Sample	Total/NA	Solid	8015D	551310

Analysis Batch: 551571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	8015D	551310
480-175593-3	SB-205 (8")	Total/NA	Solid	8015D	551310
480-175593-5	DUP-20200924	Total/NA	Solid	8015D	551310
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	8015D	551310
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	8015D	551310

Prep Batch: 551931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	3550C	

GC Semi VOA (Continued)

Prep Batch: 551931 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-2	SB-201 (10")	Total/NA	Solid	3550C	
480-175593-3	SB-205 (8")	Total/NA	Solid	3550C	
480-175593-5	DUP-20200924	Total/NA	Solid	3550C	
MB 480-551931/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-551931/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	3550C	
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	3550C	

Analysis Batch: 552096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	8082A	551931
480-175593-2	SB-201 (10")	Total/NA	Solid	8082A	551931
480-175593-3	SB-205 (8")	Total/NA	Solid	8082A	551931
480-175593-5	DUP-20200924	Total/NA	Solid	8082A	551931
MB 480-551931/1-A	Method Blank	Total/NA	Solid	8082A	551931
LCS 480-551931/2-A	Lab Control Sample	Total/NA	Solid	8082A	551931
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	8082A	551931
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	8082A	551931

Metals

Prep Batch: 551369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	3050B	
480-175593-2	SB-201 (10")	Total/NA	Solid	3050B	
480-175593-3	SB-205 (8")	Total/NA	Solid	3050B	
480-175593-5	DUP-20200924	Total/NA	Solid	3050B	
MB 480-551369/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-551369/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	3050B	
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	3050B	

Analysis Batch: 551844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	6010C	551369
480-175593-2	SB-201 (10")	Total/NA	Solid	6010C	551369
480-175593-3	SB-205 (8")	Total/NA	Solid	6010C	551369
480-175593-5	DUP-20200924	Total/NA	Solid	6010C	551369
MB 480-551369/1-A	Method Blank	Total/NA	Solid	6010C	551369
LCSSRM 480-551369/2-A	Lab Control Sample	Total/NA	Solid	6010C	551369
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	6010C	551369
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	6010C	551369

Analysis Batch: 551942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	6010C	551369
480-175593-2	SB-201 (10")	Total/NA	Solid	6010C	551369
480-175593-3	SB-205 (8")	Total/NA	Solid	6010C	551369
480-175593-5	DUP-20200924	Total/NA	Solid	6010C	551369
MB 480-551369/1-A	Method Blank	Total/NA	Solid	6010C	551369
LCSSRM 480-551369/2-A	Lab Control Sample	Total/NA	Solid	6010C	551369

Metals (Continued)

Analysis Batch: 551942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	6010C	551369
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	6010C	551369

Prep Batch: 553034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	7471B	
480-175593-2	SB-201 (10")	Total/NA	Solid	7471B	
480-175593-3	SB-205 (8")	Total/NA	Solid	7471B	
480-175593-5	DUP-20200924	Total/NA	Solid	7471B	
MB 480-553034/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-553034/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	7471B	
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	7471B	

Analysis Batch: 553159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	7471B	553034
480-175593-2	SB-201 (10")	Total/NA	Solid	7471B	553034
480-175593-3	SB-205 (8")	Total/NA	Solid	7471B	553034
480-175593-5	DUP-20200924	Total/NA	Solid	7471B	553034
MB 480-553034/1-A	Method Blank	Total/NA	Solid	7471B	553034
LCSSRM 480-553034/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	553034
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	7471B	553034
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	7471B	553034

General Chemistry

Analysis Batch: 551526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	Moisture	
480-175593-2	SB-201 (10")	Total/NA	Solid	Moisture	
480-175593-3	SB-205 (8")	Total/NA	Solid	Moisture	
480-175593-5	DUP-20200924	Total/NA	Solid	Moisture	
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	Moisture	
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	Moisture	

Prep Batch: 551978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	9012B	
480-175593-2	SB-201 (10")	Total/NA	Solid	9012B	
480-175593-3	SB-205 (8")	Total/NA	Solid	9012B	
480-175593-5	DUP-20200924	Total/NA	Solid	9012B	
MB 480-551978/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-551978/2-A ^20	Lab Control Sample	Total/NA	Solid	9012B	
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	9012B	
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	9012B	

Analysis Batch: 552079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-1	SB-203 (10")	Total/NA	Solid	9012B	551978
480-175593-2	SB-201 (10")	Total/NA	Solid	9012B	551978

General Chemistry (Continued)

Analysis Batch: 552079 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175593-3	SB-205 (8")	Total/NA	Solid	9012B	551978
480-175593-5	DUP-20200924	Total/NA	Solid	9012B	551978
MB 480-551978/1-A	Method Blank	Total/NA	Solid	9012B	551978
LCSSRM 480-551978/2-A ^20	Lab Control Sample	Total/NA	Solid	9012B	551978
480-175593-2 MS	SB-201 (10")	Total/NA	Solid	9012B	551978
480-175593-2 MSD	SB-201 (10")	Total/NA	Solid	9012B	551978

Client Sample ID: SB-203 (10")
Lab Sample ID: 480-175593-1
Date Collected: 09/24/20 08:00
Matrix: Solid
Date Received: 09/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551526	09/28/20 14:04	DSC	TAL BUF

Client Sample ID: SB-203 (10")
Lab Sample ID: 480-175593-1
Date Collected: 09/24/20 08:00
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			551501	09/25/20 10:00	WJD	TAL BUF
Total/NA	Analysis	8260C		1	551556	09/28/20 23:04	WJD	TAL BUF
Total/NA	Prep	3550C			551450	09/28/20 07:54	VXF	TAL BUF
Total/NA	Analysis	8270D		5	551697	09/29/20 18:17	JMM	TAL BUF
Total/NA	Prep	5035A_H			551469	09/28/20 08:59	JLS	TAL BUF
Total/NA	Analysis	8015D		2	551472	09/28/20 17:24	JLS	TAL BUF
Total/NA	Prep	3550C			551310	09/25/20 15:32	SGD	TAL BUF
Total/NA	Analysis	8015D		5	551571	09/30/20 07:45	MAN	TAL BUF
Total/NA	Prep	3550C			551931	09/30/20 16:21	SGD	TAL BUF
Total/NA	Analysis	8082A		1	552096	10/01/20 23:48	W1T	TAL BUF
Total/NA	Prep	3050B			551369	09/28/20 17:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	551844	09/29/20 18:05	LMH	TAL BUF
Total/NA	Prep	3050B			551369	09/28/20 17:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	551942	09/30/20 13:04	LMH	TAL BUF
Total/NA	Prep	7471B			553034	10/08/20 16:10	BMB	TAL BUF
Total/NA	Analysis	7471B		1	553159	10/08/20 18:17	BMB	TAL BUF
Total/NA	Prep	9012B			551978	09/30/20 22:16	E1T	TAL BUF
Total/NA	Analysis	9012B		1	552079	10/01/20 11:30	CRK	TAL BUF

Client Sample ID: SB-201 (10")
Lab Sample ID: 480-175593-2
Date Collected: 09/24/20 09:30
Matrix: Solid
Date Received: 09/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551526	09/28/20 14:04	DSC	TAL BUF

Client Sample ID: SB-201 (10")
Lab Sample ID: 480-175593-2
Date Collected: 09/24/20 09:30
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			551501	09/25/20 10:00	WJD	TAL BUF
Total/NA	Analysis	8260C		1	551556	09/28/20 23:29	WJD	TAL BUF
Total/NA	Prep	3550C			551450	09/28/20 07:54	VXF	TAL BUF
Total/NA	Analysis	8270D		5	551697	09/29/20 17:53	JMM	TAL BUF
Total/NA	Prep	5035A_H			551469	09/28/20 08:59	JLS	TAL BUF
Total/NA	Analysis	8015D		1	551472	09/28/20 15:34	JLS	TAL BUF

Client Sample ID: SB-201 (10")
Lab Sample ID: 480-175593-2

Date Collected: 09/24/20 09:30
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			551310	09/25/20 15:32	SGD	TAL BUF
Total/NA	Analysis	8015D		10	551437	09/28/20 10:11	JLS	TAL BUF
Total/NA	Prep	3550C			551931	09/30/20 16:21	SGD	TAL BUF
Total/NA	Analysis	8082A		1	552096	10/01/20 21:20	W1T	TAL BUF
Total/NA	Prep	3050B			551369	09/28/20 17:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	551844	09/29/20 18:09	LMH	TAL BUF
Total/NA	Prep	3050B			551369	09/28/20 17:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	551942	09/30/20 13:19	LMH	TAL BUF
Total/NA	Prep	7471B			553034	10/08/20 16:10	BMB	TAL BUF
Total/NA	Analysis	7471B		1	553159	10/08/20 18:18	BMB	TAL BUF
Total/NA	Prep	9012B			551978	09/30/20 22:16	E1T	TAL BUF
Total/NA	Analysis	9012B		1	552079	10/01/20 11:26	CRK	TAL BUF

Client Sample ID: SB-205 (8")
Lab Sample ID: 480-175593-3

Date Collected: 09/24/20 10:50
Matrix: Solid
Date Received: 09/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551526	09/28/20 14:04	DSC	TAL BUF

Client Sample ID: SB-205 (8")
Lab Sample ID: 480-175593-3

Date Collected: 09/24/20 10:50
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			551501	09/25/20 10:00	WJD	TAL BUF
Total/NA	Analysis	8260C		1	551556	09/28/20 23:55	WJD	TAL BUF
Total/NA	Prep	3550C			551450	09/28/20 07:54	VXF	TAL BUF
Total/NA	Analysis	8270D		20	551551	09/28/20 19:30	RJS	TAL BUF
Total/NA	Prep	5035A_H			551469	09/28/20 08:59	JLS	TAL BUF
Total/NA	Analysis	8015D		2	551472	09/28/20 18:00	JLS	TAL BUF
Total/NA	Prep	3550C			551310	09/25/20 15:32	SGD	TAL BUF
Total/NA	Analysis	8015D		1	551571	09/29/20 16:46	MAN	TAL BUF
Total/NA	Prep	3550C			551931	09/30/20 16:21	SGD	TAL BUF
Total/NA	Analysis	8082A		2	552096	10/01/20 23:11	W1T	TAL BUF
Total/NA	Prep	3050B			551369	09/28/20 17:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	551844	09/29/20 18:32	LMH	TAL BUF
Total/NA	Prep	3050B			551369	09/28/20 17:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	551942	09/30/20 13:30	LMH	TAL BUF
Total/NA	Prep	7471B			553034	10/08/20 16:10	BMB	TAL BUF
Total/NA	Analysis	7471B		1	553159	10/08/20 18:24	BMB	TAL BUF
Total/NA	Prep	9012B			551978	09/30/20 22:16	E1T	TAL BUF
Total/NA	Analysis	9012B		1	552079	10/01/20 11:31	CRK	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

Client Sample ID: DUP-20200924
Lab Sample ID: 480-175593-5
Date Collected: 09/24/20 13:00
Matrix: Solid
Date Received: 09/25/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551526	09/28/20 14:04	DSC	TAL BUF

Client Sample ID: DUP-20200924
Lab Sample ID: 480-175593-5
Date Collected: 09/24/20 13:00
Matrix: Solid
Date Received: 09/25/20 08:00
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			551501	09/25/20 10:00	WJD	TAL BUF
Total/NA	Analysis	8260C		1	551556	09/29/20 00:21	WJD	TAL BUF
Total/NA	Prep	3550C			551450	09/28/20 07:54	VXF	TAL BUF
Total/NA	Analysis	8270D		20	551551	09/28/20 19:54	RJS	TAL BUF
Total/NA	Prep	5035A_H			551469	09/28/20 08:59	JLS	TAL BUF
Total/NA	Analysis	8015D		2	551472	09/28/20 18:37	JLS	TAL BUF
Total/NA	Prep	3550C			551310	09/25/20 15:32	SGD	TAL BUF
Total/NA	Analysis	8015D		1	551571	09/29/20 17:21	MAN	TAL BUF
Total/NA	Prep	3550C			551931	09/30/20 16:21	SGD	TAL BUF
Total/NA	Analysis	8082A		1	552096	10/02/20 00:00	W1T	TAL BUF
Total/NA	Prep	3050B			551369	09/28/20 17:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	551844	09/29/20 18:35	LMH	TAL BUF
Total/NA	Prep	3050B			551369	09/28/20 17:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	551942	09/30/20 13:34	LMH	TAL BUF
Total/NA	Prep	7471B			553034	10/08/20 16:10	BMB	TAL BUF
Total/NA	Analysis	7471B		1	553159	10/08/20 18:28	BMB	TAL BUF
Total/NA	Prep	9012B			551978	09/30/20 22:16	E1T	TAL BUF
Total/NA	Analysis	9012B		1	552079	10/01/20 11:33	CRK	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-175593-1
Project/Site: National Grid - North Albany Project

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-175593-1	SB-203 (10")	Solid	09/24/20 08:00	09/25/20 08:00	
480-175593-2	SB-201 (10")	Solid	09/24/20 09:30	09/25/20 08:00	
480-175593-3	SB-205 (8")	Solid	09/24/20 10:50	09/25/20 08:00	
480-175593-5	DUP-20200924	Solid	09/24/20 13:00	09/25/20 08:00	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Albany #224

eurofins | Environment Testing America

Client Information	Sampler: K. Liloia	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-151083-33571.1
Client Contact: Mr. John Brussel	Phone: 518-222-5130	E-Mail: John.Schove@Eurofinset.com		Page: Page 1 of 2
Company: ARCADIS U.S. Inc		Analysis Requested		Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Syracuse	TAT Requested (days):			
State, Zip: NY, 13202				Other:
Phone: 315-671-9441(Tel)	PO #: 30058019 Takk 10			
Email: john.brussel@arcadis-us.com	WO #: AUS-T1-EUR30058019-WA1			
Project Name: National Grid - North Albany Project	Project #: 48016528			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012B - Cyanide	6010C, 7471B	8082A, 8270D	8015D_DRO - TPH DRO	8015D_GRO - TPH GRO	8260C - TCL VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N		
SB-203 (10")	9-24-2020	0800	G	Solid	N	N	✓	✓	✓	✓	✓	✓		
SB-201 (10")	9-24-2020	0930	G	Solid	N	Y	✓	✓	✓	✓	✓	✓		
SB-201 (10") -MSD	9-24-2020	0930	G	Solid	N	Y	✓	✓	✓	✓	✓	✓		
SB-201 (10") -MS	9-24-2020	0930	G	Solid	N	Y	✓	✓	✓	✓	✓	✓		
SB-205 (8") -	9-24-2020	1050	G	Solid	N	N	✓	✓	✓	✓	✓	✓		
~~SB-207 (10")~~	9-24-2020	1225	G	Solid	N	N	✓	✓	✓	✓	✓	✓		
DUP-20200924	9-24-2020	1300	G	Solid	N	N	✓	✓	✓	✓	✓	✓		
				Solid										
				Solid										
				Solid										
				Solid										

Discard sample SB-207 (10")

480-175593 Chain of Custody

Possibl
☐ No ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Delivera

Special Instructions/QC Requirements:

Empty K | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	9-24-2020/1400	Arcadis		9-24-2020 1400	EUTA
Relinquished by:	9-24-2020 1700	Eurofins	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	9/25/20 0900	TA

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

Cooler Temperature(s) °C and Other Remarks: 2.9, 2.6 #1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-175593-1

Login Number: 175593

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	freeze time: 1000
Sample containers have legible labels.	False	No labels on terracore containers
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	