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Date: June 15, 2022
Our Ref: 30084590
Subject: National Grid
North Albany Service Center
Building 2-4 Alterations
Focused Investigation Summary Report

Dear Ms. White,

On behalf of National Grid, this letter summarizes the work performed and findings of a focused investigation performed at the National Grid North Albany Service Center in March 2022. The investigation was performed to evaluate conditions within the footprint of proposed alterations (upgrades) to Building 2-4 at the National Grid North Albany Service Center (see Figure 1 for site location). Building 2-4 is located south of the former manufactured gas plant (MGP), but within the boundaries of New York State Department of Environmental Conservation (NYSDEC) Site No. 401040 (see Figure 2). The investigation characterized soil outside Building 2-4, the concrete floor slab inside the building, concrete aprons adjacent to the building, and soil below the concrete slab/aprons. The investigation was conducted by Arcadis of New York, Inc. (Arcadis) and National Grid's contractor during the week of March 28, 2022. Fieldwork and laboratory analyses were performed in accordance with the work plan contained in a March 23, 2022 letter to the NYSDEC, which was approved by the NYSDEC on March 28, 2022.

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 Building 2-4 alterations. 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 four semi-volatile organic compounds (SVOCs) and arsenic in select samples. The concrete analytical results indicate that the concrete interior floor slab and exterior aprons do not exhibit any detectable polychlorinated biphenyls (PCBs) or any Resource Conservation and Recovery Act (RCRA) hazardous waste characteristics.

Relevant background information, including an overview of the proposed Building 2-4 alterations and historical environmental data for the area near Building 2-4, is presented below and followed by a summary of the focused investigation and proposed environmental requirements for the contractors that will perform the alterations.

I. BACKGROUND INFORMATION

The proposed Building 2-4 alterations include a new roof, siding, and insulation on the building, new concrete aprons inside and outside the building, new natural gas service connecting to the building, and new stormwater drainage piping around the building. The proposed insulation to be installed around the building foundation wall, the new gas service (main) connecting to the building, and the new storm sewer piping to be installed around the

building require the removal of existing concrete immediately outside the building and soil excavation (trenching) to depths between approximately 2 and 5 feet below ground surface (bgs). A site plan prepared by Nelson Associates Architectural Engineering (NAAE) showing Building 2-4 and the approximate removal limits for the proposed alterations is provided in Attachment 1. Details of the ground-intrusive work planned for the Building 2-4 alterations are provided below:

- **Concrete Removal:** Concrete will be removed from three areas, including: (1) two approximately 12-foot long by 10-foot wide aprons on the north side of Building 2-4 for installation of new storm sewer piping and foundation insulation; (2) an approximately 20-foot long by 5-foot wide area inside the north wall of Building 2-4 to replace cracked/deteriorated concrete; and (3) an approximately 40-foot long by 3-foot wide area along the east side of Building 2-4 for installation of foundation installation. The concrete is approximately 4- to 10-inches thick. Therefore, an estimated 12 cubic yards (CY) of concrete debris will be generated by the removal.
- **Stone Removal:** Crusher run stone surface cover will be removed from three areas along the north side of Building 2-4 for installation of the new storm sewer piping and foundation insulation. Each removal area is 10 feet wide, the total length of the removal is 96 feet, and the removal depth is 1.5 feet, for a total of 53 CY of stone. These areas were shown on design drawings to be asphalt paved, but the ground surface was observed to be covered with crusher run stone during the focused investigation.
- **Soil Excavation:** Trenches will be excavated around Building 2-4 for the installation of new natural gas service to the building, new storm sewer piping to convey storm water runoff from the building roof and ground surface away from the building, and insulation around the subgrade building foundation, as described below:
 - **Natural Gas Main:** Approximately 225 lineal feet (LF) of trench will be excavated for a new low-pressure gas main that will extend from an existing gas main located along the east edge of the railroad tracks (i.e., the tie-in location will be directly west of the southwest corner of Building 2-3) and extend to the southwest corner of Building 2-4. Assuming the trench is 3 feet wide and 2 feet deep, the trench excavation will generate approximately 50 CY of spoils.
 - **Storm Sewer Pipe:** Approximately 300 LF of trench will be excavated for new storm sewer pipe to convey roof drainage to an existing manhole northwest of Building 2-4. The new storm sewer pipe will extend around the northern, southern, and western sides of Building 2-4. Assuming the trench is 3 feet wide and an average of 5 feet deep, the trench excavation will generate approximately 167 CY of spoils.
 - **Foundation Insulation:** The design drawings show installation of subsurface insulation around all four sides of Building 2-4. The base of the insulation is shown at a depth of 2 feet bgs. The northern, southern, and western foundation walls will be exposed by the excavation for the proposed new storm sewer pipe. The eastern foundation wall will be exposed by a trench that is assumed to be 2 feet wide, 2 feet deep, and 40 feet long, resulting in the generation of approximately 5.6 CY of excavation spoils (1.1 CY of concrete and 4.5 CY of soil).

Based on the estimates above, the Building 2-4 alterations are anticipated to generate approximately 12 CY of concrete debris and 275 CY of excavation spoils (stone and soil) that will need to be properly managed. The final volume will depend on contractor means and methods. NAAE's utility trench detail shows trenches in paved and gravel areas being backfilled with pipe bedding material (crushed stone) and select fill. The trench detail does not allow excavated soil to be reused as backfill. Therefore, the excavated material will be transported offsite for

disposal unless National Grid and Nelson elect to reuse some of the stone (as either surface or subsurface fill onsite) and/or the underlying material (as subsurface fill greater than 1 foot bgs onsite).

II. FOCUSED INVESTIGATION SUMMARY

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

A. Focused Investigation Fieldwork

Before drilling and sampling began, subsurface utilities in and around the work area were cleared by utility mark-outs by UDig NY, Inc. Concrete coring and soil boring was performed by National Grid's subcontractor (US Ecology, Inc. [US Ecology]) via hammer-drill and vacuum excavation methods, respectively, at each proposed concrete/soil sampling location. Details of the concrete core sampling, soil boring/sampling, and community air monitoring performed in connection with the focused investigation are presented below.

Concrete Sampling

US Ecology collected pulverized concrete samples from the two concrete aprons north of Building 2-4 (locations B2-4 CONC-1 and B2-4 CONC-2), the floor slab location inside Building 2-4 (location B2-4 CONC-3), and the concrete apron extending along the east side of Building 2-4 (location B2-4 CONC-4), as shown on the drawing included in Attachment 1. Concrete sampling locations B2-4 CONC-1 and B2-4 CONC-2 were each shifted approximately 7 feet east of the locations identified in the work plan (i.e., to the eastern edge of the concrete aprons), to eliminate potential trip hazards associated with the core holes, while the aprons continue to be used by site personnel for building access until construction begins. Pulverized concrete samples were collected from two different intervals at each sampling location for laboratory analysis as follows:

- *Top 3 Inches of Existing Concrete:* One sample from the top 3 inches of the concrete at each of the four sampling locations (total of four samples) was submitted for laboratory analysis for PCBs.
- *Full Depth of Concrete Slab:* Samples were collected through the full depth of the concrete slab at each of the four concrete sampling locations. The full-depth samples from locations B2-4 CONC-1 (0-10") and B2-4 CONC-2 (0-10") were composited to form sample B2-4 CONC-1-2, and the full depth samples from locations B2-4 CONC-3 (0-10") and B2-4 CONC-4 (0-4") were composited to form sample B2-4 CONC-3-4. The two composite samples were submitted for laboratory analysis for RCRA waste characteristics (i.e., Toxicity Characteristic Leaching Procedure [TCLP] VOCs, TCLP SVOCs, TCLP metals, ignitability, reactivity) and asbestos.

The concrete sampling locations, core hole depths, and sampling intervals are summarized in the Table 1. Each of the core holes drilled through the concrete was backfilled to ground surface with clean crusher run stone.

Soil Sampling

US Ecology completed soil borings at 11 locations within the proposed Building 2-4 alterations construction limits (locations SB-301 through SB-311 as shown on the drawing in Attachment 1). The sampling locations were marked in the field by Arcadis using tie-distance measurements obtained from Building 2-4 Alterations Design Drawing C100, with sampling locations from the March 23, 2022 work plan overlaid on the drawing. Soil boring locations SB-304 and SB-305, which aligned with concrete core sampling locations B2-4 CONC-1 and B2-4 CONC-2, were shifted approximately 7 feet east of the locations identified in the work plan, as indicated above. The soil boring locations, boring depths, and sampling intervals are summarized in the Table 1.

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 3 to 12-inches of material encountered at each sampling location consisted of asphalt, concrete, or crusher run stone. Historic fill material, consisting primarily of coarse sand, gravel, crushed stone, and/or brick, was encountered below the surface cover. 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, concrete, or crusher run stone at each location were submitted for laboratory analysis of PCBs. In addition, soil samples from that same interval at seven of the 11 sampling locations (locations SB-301, SB-303, SB-304, SB-306, SB-307, SB-309, and SB-311) were submitted for laboratory analysis for Target Compound List (TCL) volatile organic compounds (VOCs), TCL SVOCs, Target Analyte List (TAL) inorganic constituents (including cyanide), total petroleum hydrocarbons (TPH) diesel range organics (DRO), and TPH gasoline range organics (GRO), heat of combustion, and/or percent sulfur.

The soil borings were backfilled to ground surface with clean crusher run stone. Excavated soil was staged north of Building 2-4 for subsequent waste characterization and offsite disposal by National Grid.

Community Air Monitoring

Community air monitoring was performed by Arcadis during ground-intrusive work (concrete coring, 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, and no visible dust was observed leaving the work area.

The VOC vapor and particulate data could not be downloaded in the field by Arcadis, because the necessary cable was not provided with the rental equipment. Arcadis coordinated with the rental equipment vendor, Pine Environmental (Pine), to have the data downloaded when the equipment was returned to their facility. This approach was consistent with that used on other projects in response to software incompatibility issues or missing cables preventing data download in the field. However, from follow-up discussions with Pine, there were some internal miscommunications and their field technicians overlooked the reminder labels that Arcadis had placed on the equipment. Pine apparently deleted the data before shipping the equipment out for the next rental.

B. Focused Investigation Findings

The laboratory analytical data reports for the concrete and soil samples collected as part of the March 2022 focused investigation (NYSDEC Analytical Services Protocol Category B data deliverables package) are presented in the electronic attachment. 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 will be separately e-mailed to the NYSDEC for upload to the NYSDEC's EQulS database. The concrete and soil analytical results are summarized below.

Concrete Analytical Results

The concrete analytical results for PCBs and RCRA waste characteristics are presented in Table 2. The concrete analytical results for asbestos are provided in the laboratory report included in the electronic attachment (asbestos was not detected in any of the samples).

PCBs were not detected above laboratory detection limits in any of the four discrete concrete samples. The concrete analytical results indicate that the concrete does not exhibit any RCRA hazardous waste characteristics. No VOCs or SVOCs were detected in leachate from TCLP sample extraction. Only three metals (barium, chromium, and lead) were detected in leachate from TCLP sample extraction, but the concentrations were two orders of magnitude or more below the regulatory limits presented in 6 NYCRR Part 371. The laboratory results also indicate that the samples were not ignitable or reactive.

Soil Analytical Results

The soil analytical results are presented in Table 3, conservatively compared to the commercial use SCOs presented in 6 NYCRR Part 375-6.8(b). As indicated in Table 3, no PCBs, VOCs, SVOCs, or inorganic constituents were identified at concentrations exceeding the NYSDEC commercial SCOs with the minor exceptions identified below:

- **SB-301:** Arsenic was identified at a concentration of 16.8 ppm, which slightly exceeds the 16 ppm commercial SCO.
- **SB-303:** Benzo(a)pyrene was identified at a concentration of 1.5 ppm, which slightly exceeds the 1 ppm commercial SCO.
- **SB-306 and SB-307:** Four SVOCs were identified at concentrations slightly exceeding the commercial use SCOs, as identified in the table below.

Constituent	Commercial SCO (ppm)	Concentration (ppm)	
		SB-306	SB-307
Benzo(a)anthracene	5.6	8.2	6.1
Benzo(a)pyrene	1	7.9	5.9
Benzo(b)fluoranthene	5.6	9.2	7.5
Dibenz(a,h)anthracene	0.56	1.2	1

No commercial SCOs for heat of combustion, TPH DRO, TPH GRO, or percent sulfur 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 visual soil characterization data (absence of NAPL) and the analytical data as summarized above, soil within the proposed Building 2-4 alterations construction limits appears to be minimally affected by the former MGP and/or other site activities.

While lead was not identified at concentrations exceeding the commercial use SCOs in any of the soil samples, lead was identified at concentrations of 328 and 383 ppm samples collected from locations SB-301 (along the alignment for the proposed natural gas main) and SB-306 (south of Building 2-4), respectively. Per Section 1.2 of the TCLP, for a waste that is 100% solid, the results of the total constituent analysis may be divided by 20 to convert the total results into the maximum leachable concentration. This factor is derived from the 20:1 liquid-to-

solid ratio employed in the TCLP. Accordingly, the maximum lead concentration in the leachate of the soil samples collected from locations SB-301 and SB-306 would be 16.4 and 19.5 ppm (i.e., 328 and 383 ppm divided by 20). These values are slightly more than the 5 ppm regulatory limit for a characteristic hazardous waste for lead (waste code D008). This data does not necessarily mean that the soil from these locations, as generated, is a hazardous waste; it simply suggests the potential for the soil to be hazardous for lead.

III. PROPOSED ENVIRONMENTAL REQUIREMENTS FOR BUILDING 2-4 ALTERATIONS

The proposed excavation for the Building 2-4 alterations will be accomplished using a standard excavator or backhoe. Sidewall support (e.g., trench boxes, sloping, benching, etc.) will be provided 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 alterations 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 fence, barrels, and/or caution tape attached to temporary/moveable posts or drums will be used to demarcate the work area. 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 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 concrete within the proposed excavation area will be removed and transported for offsite recycling. The crusher run stone and 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 fill material from around sampling locations SB-301 and SB-306 will be stockpiled separately from other materials for waste characterization sampling (to further evaluate lead concentrations). 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 sidewalks 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 lined and loads will be covered with a low-permeability tarp (mesh tarps are prohibited) before the truck departs the site. Loads will 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 work will be installed 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 east (toward the property boundary). 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 will 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 for reuse or offsite disposal 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 a combination of 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 gravel and sand is to be used as backfill, the material 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 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 June 2021 [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:* A demarcation layer will be installed to line the excavation bottom and sidewalls at least near sampling locations SB-301 and SB-306. 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

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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 storm sewer piping or the natural gas main or compact soil around these utilities. To the extent possible, the work will be performed without manned entry into the excavation.

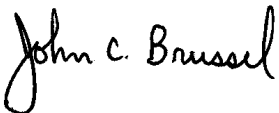
8. *Decontamination*: The contractor will be required to decontaminate equipment that contacts potentially-impacted soil. The equipment will be decontaminated by wiping and/or brushing off adhered soil/debris over the roll-off waste container or material staging area. The limited wash water anticipated 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 will observe and document the soil management work and perform community air monitoring. A report will be prepared 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.

We trust that the environmental requirements proposed above are acceptable to the NYSDEC. National Grid anticipates the ground intrusive portion of the work to begin on May 16, 2022. Let us know if you would like to visit the site during construction, and we can arrange to meet you there.

Please do not hesitate to contact Garry Cummins (National Grid Site Investigation and Remediation Project Manager at 315.440.5825), Matt Root (National Grid Environment Compliance at 518.227.7508) 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, P.E.
Principal Engineer/Certified Project Manager

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CC:
Matthew Root, National Grid
Brian Key, National Grid
Gerald P. Cummins, National Grid
Mark W. Lawlor, Nelson Associates Architectural Engineering
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Enclosures:

Tables

- 1 Summary of Sampling Locations and Laboratory Analyses
- 2 Concrete Analytical Results for PCBs and RCRA Waste Characteristics
- 3 Soil Analytical Results for Detected PCBs, VOCs, SVOCs, Inorganics, and Miscellaneous

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Figures

- 1 Site Location Map
- 2 Site Layout and Soil Investigation Area

Attachments

- 1 Building 2-4 Alterations Design Drawing and Investigation Locations
- 2 Soil Boring Logs

Electronic Attachment

- 1 Laboratory Analytical Data Reports

TABLES



Table 1
Summary of Sampling Locations and Laboratory Analyses



National Grid
Building 2-4 Alterations
North Albany Former Manufactured Gas Plant Site
Albany, New York

Sample ID	Sample Collection Date	Sampling Location	Sample Depth (feet bgs)	Boring/ Coring Depth (feet)	Lab SDG #	Analytical Parameters					
						PCBs	VOCs, SVOCs, Inorganics	TPH DRO & GRO	RCRA Waste Characteristics and Asbestos	Heat of Combustion & % Sulfur	
Concrete Samples											
B2-4 CONC-1	3/30/2022	Concrete pad north of building, approximately 45 feet east of west wall	0-0.25	0.8	J196264-1	X					
B2-4 CONC-2		Concrete pad north of building, approximately 85 feet east of west wall	0-0.25	0.8		X					
B2-4 CONC-3		Interior cracked/deteriorated concrete pad	0-0.25	0.3		X					
B2-4 CONC-4		Concrete apron adjacent to the eastern side of building	0-0.25	0.8		X					
B2-4 CONC-1-2		Composite of B2-4 CONC-1 (0-0.8') and B2-4 CONC-2 (0-0.8')	Composite	-		-	X			X	
B2-4 CONC-3-4		Composite of B2-4 CONC-3 (0-0.3') and B2-4 CONC-4 (0-0.8')					X			X	
Soil Samples											
SB-301	3/30/2022	Proposed natural gas main alignment	0.4-0.9	2	J196266-1	X	X	X		X	
SB-302			0.4-0.9	2		X					
SB-303	3/29/2022	Proposed natural gas main and storm sewer alignment (overlap) and foundation insulation installation area	1-1.5	5	J196250-1	X	X	X		X	
SB-304	3/30/2022	Proposed storm sewer alignment and foundation insulation installation area	0.8-1.3	5	J196266-1	X	X	X		X	
SB-305			1-1.5	5	J196250-1	X					
SB-306			0.25-0.75	5	J196266-1	X	X	X		X	
SB-307	3/29/2022	Proposed storm sewer alignment and foundation insulation installation area	0.3-0.8	2.5	J196250-1	X	X	X		X	
SB-308	3/30/2022	Proposed interior concrete pad replacement	0.8-1.3	1.3	J196266-1	X					
SB-309	3/29/2022	Proposed gravel/soil cover removal and replacement	0.5-1	1.5	J196250-1	X	X	X		X	
SB-310			0.2-0.7	1.5		X					
SB-311			0.7-1.2	2		X	X	X		X	

Table 1
Summary of Sampling Locations and Laboratory Analyses

National Grid
Building 2-4 Alterations
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 above.
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.
 - % Sulfur using ASTM D3177.
 - Heat of combustion using ASTM Method D-240-87.
 - Resource Conservation and Recovery Act (RCRA) waste characteristics:
 - Toxicity Characteristic Leaching Procedure (TCLP) VOCs using USEPA SW-846 Method 1311/8260C.
 - TCLP SVOCs using USEPA SW-846 Method 1311/8270D.
 - TCLP Resource Conservation Recovery Act (RCRA) metals using USEPA SW-846 Method 1311/7470A/6010C .
 - Ignitability using USEPA SW-846 Method 1010A.
 - Reactivity (reactive sulfide and reactive cyanide) using USEPA Methods 9012/9034.
4. Samples were analyzed by LaBella Associates of Rochester, New York for asbestos using New York Department of Health Method 198.1 (polarized light microscopy - PLM).
5. bgs = below ground surface.
6. SDG = sample delivery group.
7. - - = not applicable.
8. An **X** indicates analysis was conducted.
9. Analytical results have not been validated.

Table 2
Concrete Analytical Results for PCBs and RCRA Characteristics



National Grid
Building 2-4 Alterations
North Albany Former Manufactured Gas Plant Site
Albany, New York

Location ID: Sample Depth (Feet):	NYSDEC Part 371 TCLP Criteria	Units	B2-4 CONC-1 0 - 0.25	B2-4 CONC-2 0 - 0.25	B2-4 CONC-3 0 - 0.25	B2-4 CONC-4 0 - 0.25	B2-4 CONC-1-2 --	B2-4 CONC-3-4 --
PCBs								
Total PCBs	--	mg/kg	<0.22	<0.23	<0.21	<0.20	NA	NA
Detected TCLP VOCs								
None Detected	--	--	NA	NA	NA	NA	--	--
Detected TCLP SVOCs								
None Detected	--	--	NA	NA	NA	NA	--	--
Detected TCLP Inorganics								
Barium	100	mg/L	NA	NA	NA	NA	0.180 J	0.160 J
Chromium	5	mg/L	NA	NA	NA	NA	0.0140 J	<0.0200
Lead	5	mg/L	NA	NA	NA	NA	0.00530 J	0.00780 J
Miscellaneous								
Ignitability	--	°F	NA	NA	NA	NA	<50	<50
Reactivity, Cyanide	--	mg/kg	NA	NA	NA	NA	<9.70	<9.90
Reactivity, Sulfide	--	mg/kg	NA	NA	NA	NA	<9.7	<9.9

Notes:

- Samples were collected by Arcadis of New York, Inc. (Arcadis) on March 30, 2022
- 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.
 - Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs) using USEPA SW-846 Method 1311/8260C.
 - TCLP SVOCs using USEPA SW-846 Method 1311/8270D.
 - TCLP Resource Conservation Recovery Act (RCRA) metals using USEPA SW-846 Method 1311/7470A/6010C.
 - Ignitability using USEPA SW-846 Method 1010A.
 - Reactivity (reactive sulfide and reactive cyanide) using USEPA Methods 9012/9034.
- Data are reported in the following units:
 - PCBs and reactivity (cyanide and sulfide): milligrams per kilogram (mg/kg), which is equivalent to parts per million (ppm).
 - TCLP VOCs, TCLP SVOCs, and TCLP inorganics: milligrams per liter (mg/L), which is equivalent to ppm.
 - Ignitability: degrees Fahrenheit (deg F).
- Only those VOCs, SVOCs, and inorganic constituents detected in one or more samples are summarized.
- Data qualifiers are defined as follows:
 - < - Constituent not detected at a concentration above the reported detection limit.
 - J - Indicates that the associated numerical value is an estimated concentration.
- 6 NYCRR Part 371 TCLP Criteria are from Title 6 of the Official Compilation of Codes, Rules, and Regulations of the State of New York (6 NYCRR) Part 371-3(e) Table 1, current through June 30, 2019.
- = No 6 NYCRR Part 371 TCLP criteria listed.
- NA = not analyzed.
- Results have not been validated.

Table 3
Soil Analytical Results for Detected PCBs, VOCs, SVOCs, Inorganics, and Miscellaneous



National Grid
Building 2-4 Alterations
North Albany Former Manufactured Gas Plant Site
Albany, New York

Location ID: Sample Depth (Feet): Date Collected:	NYSDEC Part 375 Restricted Use Commercial SCOs	Units	SB-301 0.4 - 0.9 03/30/22	SB-302 0.4 - 0.9 03/30/22	SB-303 1 - 1.5 03/29/22	SB-304 0.8 - 1.3 03/30/22	SB-305 1 - 1.5 03/29/22	SB-306 0.25 - 0.75 03/30/22	SB-307 0.3 - 0.8 03/29/22	SB-308 0.8 - 1.3 03/30/22	SB-309 0.5 - 1 03/29/22	SB-310 0.2 - 0.7 03/29/22	SB-311 0.7 - 1.2 03/29/22
PCBs													
Total PCBs	1	mg/kg	<0.24	<0.26	<0.27	<0.20	<0.21	<0.24	<0.24	<0.22	<0.24	<0.28	<0.24
Detected VOCs													
Acetone	500	mg/kg	0.0064 J	NA	<0.023	<0.022	NA	<0.026	<0.027	NA	<0.021	NA	<0.024
Trichloroethene	200	mg/kg	0.0017 JB	NA	<0.0045	<0.0044	NA	<0.0051	<0.0054	NA	<0.0043	NA	<0.0047
Detected SVOCs													
2-Methylnaphthalene	--	mg/kg	<1.0	NA	0.046 J	<0.18	NA	<1.9	<0.99	NA	<0.18	NA	<0.18
Acenaphthene	500	mg/kg	<1.0	NA	0.11 J	<0.18	NA	0.97 J	0.75 J	NA	<0.18	NA	<0.18
Acenaphthylene	500	mg/kg	<1.0	NA	0.22	<0.18	NA	1.2 J	0.46 J	NA	<0.18	NA	<0.18
Anthracene	500	mg/kg	<1.0	NA	0.52	<0.18	NA	3.2	1.8	NA	<0.18	NA	<0.18
Benzo(a)anthracene	5.6	mg/kg	0.44 J	NA	1.7	0.044 JF1F2	NA	8.2	6.1	NA	<0.18	NA	<0.18
Benzo(a)pyrene	1	mg/kg	0.55 J	NA	1.5	0.052 JF2	NA	7.9	5.9	NA	<0.18	NA	<0.18
Benzo(b)fluoranthene	5.6	mg/kg	0.71 J	NA	1.9	0.057 JF2	NA	9.2	7.5	NA	<0.18	NA	<0.18
Benzo(g,h,i)perylene	500	mg/kg	0.42 J	NA	1.2	0.037 J	NA	5.7	4.7	NA	<0.18	NA	<0.18
Benzo(k)fluoranthene	56	mg/kg	0.29 J	NA	0.70	0.031 J	NA	4.0	2.7	NA	<0.18	NA	<0.18
Carbazole	--	mg/kg	<1.0	NA	0.18 J	<0.18	NA	0.72 J	0.86 J	NA	<0.18	NA	<0.18
Chrysene	56	mg/kg	0.55 J	NA	1.7	0.050 JF2	NA	7.9	6.3	NA	<0.18	NA	<0.18
Dibenz(a,h)anthracene	0.56	mg/kg	<1.0	NA	0.28	<0.18	NA	1.2 J	1.0	NA	<0.18	NA	<0.18
Dibenzofuran	350	mg/kg	<1.0	NA	0.092 J	<0.18	NA	0.57 J	0.31 J	NA	<0.18	NA	<0.18
Fluoranthene	500	mg/kg	0.88 J	NA	3.9	0.10 JF1F2	NA	20	14	NA	<0.18	NA	<0.18
Fluorene	500	mg/kg	<1.0	NA	0.14 J	<0.18	NA	1.2 J	0.57 J	NA	<0.18	NA	<0.18
Indeno(1,2,3-cd)pyrene	5.6	mg/kg	0.37 J	NA	1.1	0.032 J	NA	4.9	3.9	NA	<0.18	NA	<0.18
Naphthalene	500	mg/kg	<1.0	NA	0.16 J	<0.18	NA	0.34 J	0.18 J	NA	<0.18	NA	<0.18
Phenanthrene	500	mg/kg	0.39 J	NA	2.7	0.060 JF1F2	NA	13	9.3	NA	<0.18	NA	<0.18
Pyrene	500	mg/kg	0.77 J	NA	4.0	0.096 JF1F2	NA	18	13	NA	<0.18	NA	<0.18
Detected Inorganics													
Arsenic	16	mg/kg	16.8	NA	7.10	5.90	NA	7.50	6.00	NA	6.00	NA	6.40
Barium	400	mg/kg	303	NA	82.2	90.5	NA	86.3	76.4	NA	74.2	NA	70.3 F1
Cadmium	9.3	mg/kg	0.440	NA	0.210 J	0.0760 J	NA	0.170 J	0.0400 J	NA	0.180 J	NA	<0.220
Chromium	--	mg/kg	26.2	NA	22.0	18.3	NA	18.5	20.6	NA	18.6	NA	22.3
Lead	1,000	mg/kg	328	NA	51.2	66.3	NA	383	36.5	NA	19.6	NA	15.8
Mercury	2.8	mg/kg	0.150	NA	0.290	0.0370	NA	0.160	0.0650	NA	0.0290	NA	0.0250
Selenium	1,500	mg/kg	2.90 J	NA	1.80 J	1.00 J	NA	1.50 J	1.80 J	NA	1.60 J	NA	1.70 J
Miscellaneous													
Heat of Combustion	--	btu/lb	<200	NA	<200	<200	NA	<200	<200	NA	<200	NA	<200
TPH DRO	--	mg/kg	23	NA	21	8.6 J	NA	84	210	NA	96	NA	<17
TPH GRO	--	mg/kg	1.3 JB	NA	0.98 JB	1 B	NA	1.7 B	1.2 JB	NA	2.4 B	NA	1.1 JB
Sulfur	--	mg/kg	513 B	NA	330 B	374 B	NA	745 B	459 B	NA	339 B	NA	296 B

Table 3
Soil Analytical Results for Detected PCBs, VOCs, SVOCs, Inorganics, and Miscellaneous



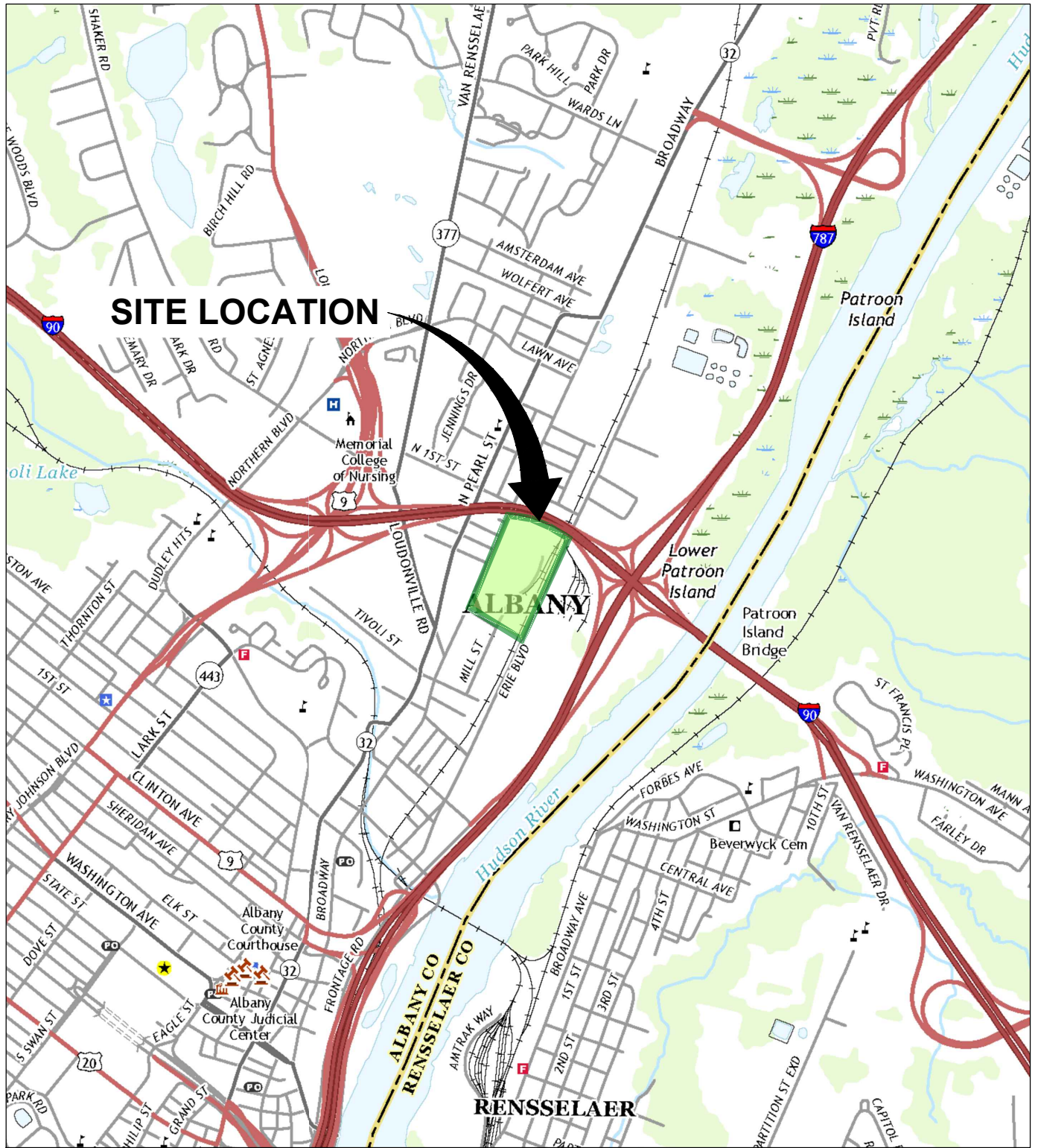
National Grid
Building 2-4 Alterations
North Albany Former Manufactured Gas Plant Site
Albany, New York

Notes:

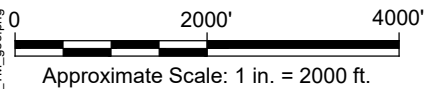
1. Samples were collected by Arcadis of New York, Inc. (Arcadis) on the dates indicated.
2. Samples were analyzed by Eurofins TestAmerica of Amherst, New York for the following:
 - Polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082A
 - Target 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.
 - % Sulfur using ASTM D3177.
 - Heat of combustion using ASTM Method D-240-87.
3. Data are reported in the following units:
 - PCBs, TLC VOCs, TCL SVOCs, TAL inorganics, TPH DRO, TPH GRO, and % Sulfur: milligrams per kilogram, which is equivalent to ppm.
 - Heat of Combustion: British thermal units per pound (BTU/lb).
4. Only those VOCs, SVOCs, and inorganic constituents detected in one or more samples are summarized.
5. 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.
6. 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.
7. Shading indicates that the result exceeds the 6 NYCRR Part 375 Commercial Use SCO.
8. NA = not analyzed.
9. - - = No 6 NYCRR Part 375 SCO listed.
10. Results have not been validated.

FIGURES





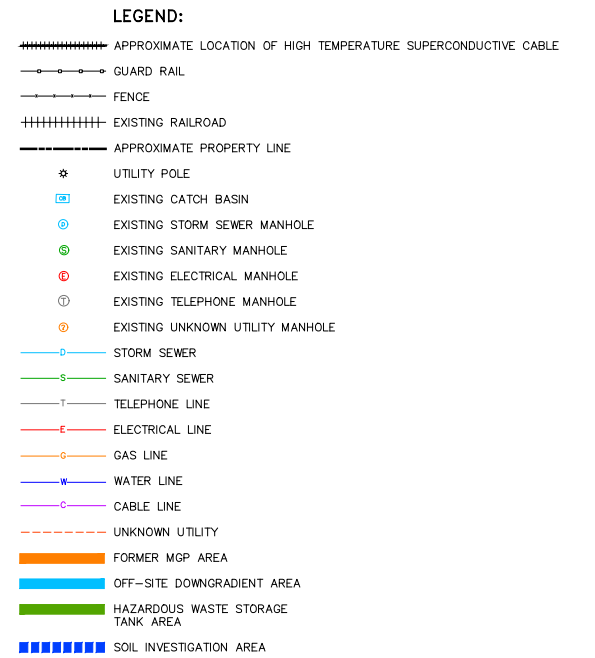
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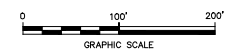
NEW YORK

NATIONAL GRID
 NORTH ALBANY FORMER MGP SITE
 ALBANY, NEW YORK

SITE LOCATION MAP



- ## 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-F, FILE INDEX NO. 20.3-A1-1-52, DATED JULY 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 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.



NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
BUILDING 2-4 ALTERATIONS

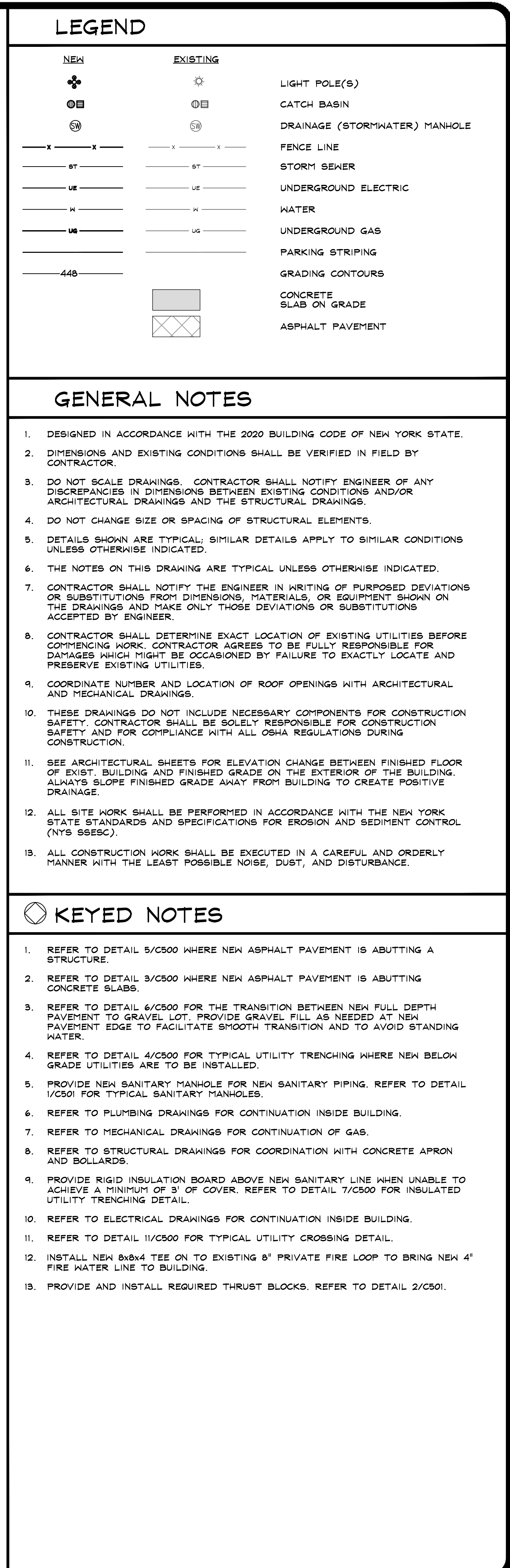
SITE LAYOUT AND SOIL INVESTIGATION AREA



ATTACHMENT 1

Building 2-4 Alterations Design Drawing and
Investigation Locations





ATTACHMENT 2

Soil Boring Logs



Sample/Core Log

Boring/Well SB-301 Project/No. 30084582 Page 1 of 1

Site	NG N. Albam	Drilling	1340	Drilling
Location		Started		Completed

Total Depth Drilled 2' Feet Hole Diameter 12" inches Type of Sample/
Coring Device Hydraulic Air Knife

Length and Diameter of Coring Device

Sampling Interval

Land-Surface Elev. feet Surveyed Estimated Datum

Drilling Fluid Used None Drilling Method Vac-Huck Air Line

Drilling Contractor US Ecology Driller Helper

Prepared		Hammer	Hammer	
By	J.Duquette	Weight	Drop	ins.

Sample/Core Depth	Time/Hydraulic
-------------------	----------------

(feet below land surface)		Core	PID	Pressure or
		Recovery	Reading	Blows per 6
From	To	(feet)	(ppm)	Inches

From	To	(feet)	(ppm)	Inches	Sample/Core Description
------	----	--------	-------	--------	-------------------------

[illegible]

Sample/Core Log

Boring/Well SB-302 Project/No. 30084582 Page 1 of 1

Site Location	Drilling Started	Drilling Completed
NG N. Albany		

Total Depth Drilled 2 Feet Hole Diameter 12" inches Type of Sample/
Coring Device Vac truck / Air kn.se

Length and Diameter of Coring Device  Sampling Interval  feet

Land-Surface Elev. feet Surveyed Estimated Datum

Drilling Fluid Used	None	Drilling Method	Vacuum Air Lift
---------------------	------	-----------------	-----------------

Drilling Contractor US Ecology Driller — Helper —

Prepared		Hammer	Hammer	
By	J.Duquette	Weight	Drop	ins.

Sample/Core Depth (feet below land surface)		Core Recovery	PID Reading	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
From	To	(feet)	(ppm)		

[illegible]

Sample/Core Log

Boring/Well SB-303 Project/No. 30084582 Page 1 of 1

Site	Drilling	Drilling
Location	Started	Completed
NG N. Albany		

Total Depth Drilled 5 Feet Hole Diameter 12 inches Type of Sample/
Coring Device Air Knife/VAC

Length and Diameter of Coring Device _____

Sampling Interval _____ feet

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

Drilling Fluid Used None Drilling Method Air Knife/VAC

Drilling Contractor US Ecology Driller Helper

Prepared By J. Duquette Hammer Weight Hammer Drop ins.

Sample/Core Depth (feet below land surface)		Core Recovery	PID Reading	Time/Hydraulic Pressure or Blows per 6 Inches
From	To	(feet)	(ppm)	

From	To	(feet)	(ppm)	Inches	Sample/Core Description
------	----	--------	-------	--------	-------------------------

[illegible]

Sample/Core Log

Boring/Well SB-304 Project/No. 30084582 Page 1 of 1

Site	Drilling	Drilling
Location	Started	Completed
NG N. Albany		

Total Depth Drilled 1.5 Feet Hole Diameter 12" inches Type of Sample/
Coring Device Air Knife / vac

Length and Diameter of Coring Device _____

Sampling Interval _____ feet

Land-Surface Elev. feet Surveyed Estimated Datum

Drilling Fluid Used None Drilling Method AN Knife / MAC

Drilling Contractor US Ecology - NRC Driller Helper

Prepared By J. Duquette Hammer Weight Hammer Drop _____ ins.

Sample/Core Depth	Time/Hydraulic
-------------------	----------------

(feet below land surface)	Core Recovery	PID Reading	Pressure or Blows per 6
---------------------------	------------------	----------------	----------------------------

From	To	(feet)	(ppm)	Inches	Sample/Core Description
------	----	--------	-------	--------	-------------------------

[illegible]

[illegible]

Sample/Core Log

Boring/Well S13-307 Project/No. 30084582 Page 1 of 1

Site NG N. Albany Drilling Started 1120 Drilling Completed 1130

Total Depth Drilled 25 Feet Hole Diameter ~12" inches Type of Sample/
Coring Device Air Knife / Vac Truck

Length and Diameter of Coring Device _____ Sampling Interval _____ feet

Land-Surface Elev. feet Surveyed Estimated Datum

Drilling Fluid Used None Drilling Method Air / Air / Vacuum

Drilling Contractor NRC US Ecology Driller _____ Helper _____

Prepared By J. Duquette Hammer Weight Hammer Drop ins.

Sample/Core Depth	Time/Hydraulic
-------------------	----------------

(feet below land surface)		Core	PID	Pressure or
		Recovery	Reading	Blows per 6
From	To	(feet)	(ppm)	Inches

From	To	(feet)	(ppm)	Inches	Sample/Core Description
------	----	--------	-------	--------	-------------------------

[illegible]

Sample/Core Log

Boring/Well SB-306 Project/No. 3008 4582 Page 1 of 1

Site	NG N. Albany	Drilling	Drilling
Location		Started	Completed

Total Depth Drilled 2' Feet Hole Diameter 6" inches Type of Sample/
Coring Device Vac truck/ Core drill

Length and Diameter of Coring Device  Sampling Interval  feet

Land-Surface Elev. feet Surveyed Estimated Datum

Drilling Fluid Used None Drilling Method Core drill

Drilling Contractor U.S. Ecology Driller _____ Helper _____

Prepared By J. Duquette Hammer Weight Hammer Drop ins.

Sample/Core Depth (feet below land surface)		Core Recovery (feet)	PID Reading (ppm)	Time/Hydraulic Pressure or Blows per 6 Inches
From	To			

From	To	(feet)	(ppm)	Inches	Sample/Core Description
------	----	--------	-------	--------	-------------------------

[illegible]



Sample/Core Log

Boring/Well SB-310 Project/No. 30084582 Page 1 of 1

Site	NG N A16	Drilling	Drilling
Location		Started	Completed

Total Depth Drilled 1.5 Feet Hole Diameter 12" inches Type of Sample/
Coring Device Air Knife/Vac

Length and Diameter of Coring Device _____

Sampling Interval 2 feet

Land-Surface Elev. feet Surveyed Estimated Datum

Drilling Fluid Used None Drilling Method Air Knife/Vac

Drilling Contractor US Ecology - NRC Driller — Helper —

Prepared By J. Duquette Hammer Weight Hammer Drop ins.

Sample/Core Depth	Time/Hydraulic
-------------------	----------------

(feet below land surface)	Core Recovery	PID Reading	Pressure or Blows per 6
---------------------------	------------------	----------------	----------------------------

From	To	(feet)	(ppm)	Inches	Sample/Core Description
------	----	--------	-------	--------	-------------------------

[illegible]

Sample/Core Log

Boring/Well SB-311 Project/No. 50084582 Page 1 of 1

Site NG. N. Albany Drilling Started 1150 Drilling Completed 1200

Total Depth Drilled 2 Feet Hole Diameter 12 inches Type of Sample/
Coring Device Air Knife / vsc

Length and Diameter of Coring Device  Sampling Interval  feet

Land-Surface Elev. feet **Surveyed** ☒ **Estimated** Datum

Drilling Fluid Used None Drilling Method Air Knife

Drilling Contractor US Ecology - NRC Driller Helper

Prepared		Hammer	Hammer	
By	J.Duquette	Weight	Drop	ins.

Sample/Core Depth (feet below land surface)		Core Recovery (feet)	PID Reading (ppm)	Time/Hydraulic Pressure or Blows per 6 Inches
From	To			

From	To	(feet)	(ppm)	Inches	Sample/Core Description
------	----	--------	-------	--------	-------------------------

[illegible]