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**FINAL  
REMEDIAL INVESTIGATION REPORT  
OPERABLE UNITS 1 (SITE 110) AND 2 (SITE 109)  
TONAWANDA COKE SITE  
3875 RIVER ROAD  
TONAWANDA, NEW YORK**

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## LIST OF ACRONYMS

| ACRONYM | Definition  | ACRONYM | Definition                                     |
|---------|---|---------|--|
| BCP     | Brownfield Cleanup Program                              | PPE     | Personal protective equipment                  |
| BMP     | Best Management Practices                               | PRAP    | Proposed Remedial Action Plan                  |
| C&D     | Construction and Demolition                             | PVC     | Polyvinyl chloride                             |
| CAMP    | Community Air Monitoring Plan                           | QAPP    | Quality Assurance Project Plan                 |
| COG     | Coke oven gas   | QC      | Quality Control                                |
| CSM     | Conceptual Site Model                                   | QHHEA   | Qualitative human health exposure assessment   |
| DOT     | Department of Transportation                            | RAO     | Remedial Action Objectives                     |
| DUSR    | Data Usability Summary Report                           | RI      | Remedial Investigation                         |
| FS      | Feasibility Study                                       | RITC    | Riverview Innovation & Technology Campus, Inc. |
| ft bgs  | Feet below ground surface                               | RIWP    | Remedial Investigation Work Plan               |
| ft-amsl | Feet above mean sea level                               | ROD     | Record of Decision                             |
| FWRIA   | Fish and Wildlife Resources Impact Analysis             | RQD     | Rock quality designation                       |
| HDPE    | High-density polyethylene                               | SB      | soil boring                                    |
| HRS     | Hazard Ranking System                                   | SCG     | Standards, Criteria, and Guidance              |
| IDW     | Investigation Derived Waste                             | SCO     | Soil Cleanup Objective                         |
| IRM     | Interim remedial measure                                | SGV     | Standards and Guidance Values                  |
| Koc     | Organic carbon partition coefficient                    | SPDES   | State Pollution Discharge Elimination System   |
| Kow     | Log octanol-water partition coefficient                 | SVOC    | Semivolatile organic compound                  |
| mg/kg   | milligrams per kilogram                                 | SWPPP   | Stormwater Pollution Prevention Plan           |
| mL/min  | Milliliters/minute                                      | TAL     | Target Analyte List                            |
| MNA     | Monitored Natural Attenuation                           | TCC     | Tonawanda Coke Corporation                     |
| MS/MSD  | Matrix spike/matrix spike duplicate                     | TCL     | Target Compound List                           |
| MW      | monitoring well   | TCLP    | Toxicity Characteristic Leaching Procedure     |
| NYCRR   | New York Codes, Rules, and Regulations                  | TOGS    | Technical and Operational Guidance Series      |
| NYSDEC  | New York State Department of Environmental Conservation | TP      | test pit                                       |
| ORP     | Oxidation Reduction Potential                           | USACE   | U.S. Army Corps of Engineers                   |
| OU      | Operable Unit   | USEPA   | U.S. Environmental Protection Agency           |
| PAH     | Polycyclic aromatic hydrocarbon                         | USGS    | U. S. Geological Survey                        |
| PCB     | Polychlorinated biphenyls                               | VOC     | Volatile organic compound                      |
| PFAS    | Per- and Polyfluoroalkyl Substances                     |         |  |
| PID     | Photoionization detector                                |         |  |

## EXECUTIVE SUMMARY

On behalf of Honeywell International Inc. (Honeywell), Parsons has prepared this Remedial Investigation (RI) Report for Operable Units (OU) 1 and 2 of the Tonawanda Coke State Superfund Site. OU-1 and OU-2, also known as Sites 110 and 109, respectively, are portions of the former Tonawanda Coke Corporation (TCC) facility. Site 110 also includes an adjacent National Grid right-of-way. TCC filed for bankruptcy protection in 2018 and all industrial activity on Sites 109 and 110 ceased at that time.

Legacy environmental conditions at the former TCC facility are being addressed under two separate New York State Department of Environmental Conservation (NYSDEC) remedial programs. Sites 109 and 110, which are the subjects of this report, along with Site 108 (presented in a separate report), represent a portion of the former TCC facility property and two sections of National Grid property, and collectively comprise the Tonawanda Coke State Superfund Site, Site #915055. These three areas are being addressed under the New York State Superfund Program. The RI results for Site 108 are detailed in a separate report submitted by Honeywell to NYSDEC. The remainder of the former TCC facility is being addressed under the New York State Brownfield Cleanup Program.

Site 109 is an approximately 7.5-acre rectangular area oriented perpendicular to the east side of River Road, in the southwestern portion of the former TCC facility property. The western boundary of Site 109 is approximately 0.3 miles east of the Niagara River. Two drainage ditches run through Site 109, one along the southern edge of the Site 109 boundary and one through the north-central portion of Site 109. The eastern section of Site 109 is paved and includes the former truck scale, tarping station and the security office. In 1977, an unknown quantity of brick, rubble, and demolition material was placed within Site 109. A coal conveyor historically ran along the southern site boundary rising from a tunnel under River Road and then elevated adjacent to, and over, the southern drainage ditch on Site 109.

Site 110 is an approximately 6.1-acre irregular-shaped area located in the northeast portion of the former TCC facility property. A 1.8-acre triangular portion of Site 110 is located east of the former TCC property on land owned by National Grid. The western boundary of Site 110 is approximately 1 mile east of the Niagara River. Site 110 was bound by numerous rail tracks. Placement of industrial and construction and demolition (C&D) wastes from plant operations occurred at multiple areas throughout Site 110. Prior to 1978, materials such as tar sludge, fly ash, and cinders were reportedly deposited within Site 110.

No industrial production processes are known to have occurred on Site 109 or Site 110. The final stormwater treatment ponds for Sites 109, 110 and the Brownfield Cleanup Site are located on Site 109. Based on historical test pits as well as test pits and monitoring wells installed during the Focused RI, fill is present across most of Site 109 and all of Site 110.

Riverview Innovation & Technology Campus, Inc. (RITC) owns the former TCC properties and is proposing a commercial/industrial complex on the former TCC facility properties at 3875 River Road and 3800 River Road. The campus will bring high technology, jobs, and environmental stewardship to properties that had been abused for decades. Dramatic progress transforming the former TCC facility from an abandoned coke facility to a property with a viable long-term vision has already occurred. The cleanup and redevelopment will allow Sites 108, 109, 110, and the remainder of the former TCC facility to be restored to productive use. The property can support a number of uses supporting the technology and commercial resources across the approximately 140-acre campus.

Following completion of an earlier Remedial Investigation and Feasibility Study (RI/FS), a Record of Decision (2008 ROD) was issued by NYSDEC on March 31, 2008, which presented the selected remedies for Site 109 and Site 110. The remedies were based on industrial use of the property and required institutional and

engineering controls involving restricting access and filing an environmental easement to control future use. The required easement was never filed by the Tonawanda Coke Corporation

The TCC facility was an active industrial facility at the time of the 2008 ROD. The former TCC facility is now inactive and future site use for Sites 109 and 110 is anticipated to include commercial as well as industrial operations. Therefore, as specified in the February 2020 Order on Consent:

“The supplemental investigation of Sites 109 and 110 will be limited to a Focused RI/FS to determine whether and to what extent additional investigation and/or remedial work may be necessary due to the change in use of the site.”

## Focused RI Field Activities Summary

There have been historical data gathering events at Sites 109 and 110 focused on on-site soils, groundwater, surface water, and drainage ditch soils. The scope of the Focused Remedial Investigation (RI), completed in 2020 through 2023, was designed to address data gaps identified through review of existing data.

The 2020 through 2023 Focused RI scope included:

- Surface and subsurface soil investigation
- Groundwater investigation
- Drainage ditch soil investigation
- Surveying of all test pits, monitoring wells, and soil sampling locations

## Waste and Residual Characteristics

The coke plant at the former TCC facility heated coal in the absence of oxygen to separate the liquids and gasses from the coal and leave the residual carbon. The residual carbon, referred to as coke, was the primary product produced at the former TCC facility. The processes followed to produce coke and its associated by-products are well understood. The materials used and resulting from the production of coke that may have impacted materials disposed of at Sites 109 and 110 are also well understood:

- Coal  
Three types of metallurgical “met” coal were used to produce coke at the former TCC facility. Coal is a naturally occurring sedimentary material.
- Coke/Breeze  
Coke is the carbon left after the liquids and gasses have been removed from the met coal. Coke is a relatively inert material. Fine-grained coke, typically resulting from crushing and screening, is referred to as breeze.
- Tar  
Tar was removed from coal as part of the coke manufacturing process and was processed at the coke plant of the former TCC facility as part of the coke by-products operations. Tar in its production form was sold and used as a component of asphalt, roof shingles, and other commercial and industrial goods.
- Oil  
Oils containing benzene, toluene and xylenes and other chemicals were by-products of the coking operations. These compounds are similar to the components of gasoline. These liquids were present in containers, pipes, tanks, and process equipment at the main plant. In their pure clean form, they are used to produce other chemicals and plastics. Fuel oil, diesel fuel and lubricating oils were used for power production, heavy equipment, rail operations, and machinery.

The majority of these materials can be identified at Site 109 and 110 either by their physical characteristics or by the presence of their component constituents:

- Volatile organic compounds (VOCs)  
Found predominately in light oils. The majority of VOCs were conveyed and consumed in the coke plant of the former TCC facility and combustion processes or sold for further refining and use as feedstock for manufacturing. VOCs are also found at low concentrations in coal.
- Semivolatile organic compounds (SVOCs)  
Prevalent in coal, coke, tar, oils, and ash.
- Polycyclic aromatic hydrocarbons (PAHs)  
A subset of the SVOCs and present in coal, coke, tar, oils, and ash.
- Naphthalene  
A by-product of coke making and prevalent in coke oven gas (COG) residuals and the process equipment from the tar processing area, through the concentrators, and precipitators. Also present in coal and tar.
- Cyanide  
A constituent of the COG and present in the gas processing equipment. Cyanide was concentrated historically in the purifier boxes on the BCP Site portion of the property before the COG was sold for off-site consumption.

## Nature and Extent of Impacts

Historical sample results and analytical data compiled as part of the Focused RI were compared to applicable standards, criteria, and guidance values (SCGs) for soil and groundwater to assess impacts and to develop an understanding of the nature and distribution of environmental impacts.

### Site 109

#### **SURFACE AND SUBSURFACE SOIL**

Soil analytical results were compared to commercial use soil SCGs, which is consistent with anticipated future site use. Fill material consists of earthen materials mixed with coal, coke, coke manufacturing by-products, construction and demolition debris, and other debris. For convenience, references to soil and comparisons to soil cleanup objectives include fill, underlying native soils, and surface and subsurface materials that are non-soil fill, such as coal, breeze, and ash, as well as mixtures of these materials and soil.

Surface soil and, to a lesser extent, subsurface soil concentrations of constituents exceeding the Commercial SCG are present throughout Site 109. The primary constituents exceeding SCGs are SVOCs (particularly PAHs). Exceedances of SCGs for SVOCs occur primarily within fill from the surface to as deep as 10.6 feet below ground surface (ft bgs). The deeper exceedances are associated with elevated fill in berms, in comparison with the depth below the typical site grade. The highest concentrations of constituents occur in drainage ditch samples, likely due to spills from the former overhead coal conveyor and/or due to erosion and transport of soils impacted with coal and coke from areas upgradient of Site 109 into the on-site drainage ditch.

#### **GROUNDWATER**

Groundwater impacts at Site 109 are limited, with most SCG exceedances observed in the upgradient well. Groundwater samples show exceedances of SCGs for one or more constituents in samples from all wells. However, most exceedances are for metals, which are likely primarily due to naturally occurring conditions.

Groundwater gradients are predominantly to the west-southwest. Groundwater occurs in a perched unit in fill that is likely a series of pocketed saturated areas, some of which are connected, while others are isolated. A thick, low permeability clay layer is present beneath the fill, which prevents significant downward migration of groundwater.

## Site 110

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### **SURFACE AND SUBSURFACE SOIL**

Soil analytical results were compared to commercial use soil SCGs, which is consistent with anticipated future site use. Fill material consists of earthen materials mixed with coal, coke, coke manufacturing by-products, construction and demolition debris, and other debris. References to soil and comparisons to soil cleanup objectives include fill, underlying native soils, and surface and subsurface materials that are non-soil fill, such as coal, breeze, and ash, as well as mixtures of these materials and soil.

Surface and subsurface soil concentrations of constituents exceeding Commercial SCGs are present throughout Site 110. The primary constituents exceeding SCGs are SVOCs (particularly PAHs). Localized VOC exceedances of SCGs (primarily BTEX compounds) were also noted in samples from one monitoring well boring. Exceedances of SCGs for SVOCs occur primarily within fill from the surface to as deep as 7 ft bgs. The deeper exceedances are associated with the elevated piles of fill on Site 110. Surface and subsurface tar is present in multiple locations on Site 110, but the presence of these materials does not appear to impact soil quality in adjacent intervals.

### **GROUNDWATER**

Groundwater samples exceeded one or more SCGs in samples from all wells at Site 110. Exceedances of SCGs occur primarily for SVOCs (primarily PAHs), metals, and cyanide. Localized VOC exceedances of SCGs (primarily BTEX compounds) were also noted at one monitoring well. Metals exceedances of SCGs at Site 110 are likely primarily due to naturally occurring conditions.

Groundwater gradients across Site 110 are flat and slightly eastward. Groundwater occurs in a perched fill unit that is likely a series of pocketed saturated areas, some of which are connected, while others are isolated. A thick, low permeability clay layer is present beneath the fill, which prevents significant downward migration of shallow groundwater.

## Conceptual Site Model

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## Site 109

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Results of the previous investigations and the 2020/2021 Focused RI indicate that the primary sources of impacts to Site 109 are historical material disposal practices.

A layer of fill is present across the majority of Site 109, typically ranging in thickness from 0 feet to 16 feet. The fill consists of silt and clay and includes a variety of other materials co-placed with the earthen materials, including C&D debris such as concrete, red brick, yellow fire brick, rock fragments, wood, and common fill materials typical of coking facilities such as breeze, coke, coal, and slag.

Historical spills from the former coal conveyor, which formerly ran along the southern site boundary adjacent to the drainage ditch, and/or erosion and transport of soils impacted with coal and coke from areas upgradient of Site 109 into the on-site drainage ditch may have impacted soil quality within the drainage ditch.



Groundwater impacts at Site 109 are very limited, with most impacts observed in the upgradient well. The data indicates that constituents of fill at Site 109 are not significantly impacting groundwater.

## Site 110

Results of both the prior investigations and the 2020/2021 Focused RI indicate that the primary sources of impacts to Site 110 are historical material disposal practices. A layer of fill is present across the entirety of Site 110, ranging in thickness from 3.0 feet to 16.5 feet. The fill consists of coke breeze and is often mixed with earthen materials including silt and sand, debris including brick, glass, wood, plastic, rubber, and coke manufacturing by-products including coke, coal, slag, and ash. The fill may contribute to impacts to groundwater through leaching.

Localized areas at Site 110 contain subsurface tar in various forms. Results indicate that tar-impacted materials may be contributing to groundwater impacts; however, results indicate that tar is not contributing significantly to groundwater impacts and are likely confined to locations where tar is in direct contact with groundwater. Results indicate that groundwater impacts are not migrating significantly eastward onto the adjacent National Grid property, aside from potential cyanide impacts.

## Qualitative Human Health Exposure Assessment

A QHHEA was completed, consistent with NYSDEC guidance (NYSDEC 2010a), to evaluate how people might be exposed to site-related constituents, and to identify and characterize the potentially exposed population(s) now and under the reasonably anticipated future use of Sites 109 and 110. Potential exposures for current and future site use, which is anticipated to be commercial, are detailed below.

**Current Site Worker** Under the current use scenario, there is a potentially complete pathway for site workers performing surface or intrusive work, such as site investigation or interim remedial measures (IRM) activities, to come in contact with all identified impacted media. Proper use of personal protective equipment (PPE), decontamination methods, and other protective measures during on-site work, consistent with currently used health and safety measures, minimizes the risk of exposure to impacted media for current site workers.

**Future Site Worker:** It is anticipated that the primary future use of Sites 109 and 110 will be commercial, which will include landscaping, paving and buildings. This would provide at least a partial cover, which would reduce but not eliminate potential exposure by future site workers to impacted surface soil. There is a potentially complete pathway for site workers performing construction activities during future redevelopment, or subsequent construction or maintenance activities, to come in contact with all identified impacted media. Site remediation and/or proper use of PPE, decontamination methods, and other protective measures during these activities would minimize the risk of exposure to impacted media for future site workers.

**Future Office Worker:** The only identified, potentially complete exposure pathway for future office workers is via inhalation, specifically inhalation of fugitive dust and inhalation due to vapor intrusion into buildings of VOCs originating from impacted soil and/or groundwater.

There were no exceedances of groundwater SGCs or Commercial Soil SGCs for VOCs at Site 109, therefore, the potential exposure pathway for VOCs is considered incomplete at Site 109.

There was only one VOC exceedance of Commercial SGCs for soil and one localized exceedance of SGCs for groundwater at Site 110. However, relatively high levels of VOCs were detected in the tar samples characterized. Therefore, the potential exposure pathway for VOCs via a future inhalation pathway is considered complete for Site 110.



There is no complete exposure pathway associated with groundwater usage by future office workers. There is a municipal water supply available for Sites 109 and 110 and it is anticipated that institutional controls, such as an environmental easement, will be implemented in the future, preventing use of site groundwater for drinking water purposes.

Given that the areas of the site that future office workers will be interacting with will be paved, landscaped, and otherwise developed, there is no complete exposure pathway associated with direct contact or incidental ingestion of surface or subsurface soil. **Current/Future Off-Site Worker:** Potential exposure pathways for current/future off-site workers only exist for Site 110, as significant groundwater impacts were not observed at downgradient wells at Site 109. Off-site workers at the National Grid property downgradient of Site 110 may encounter groundwater impacted with cyanide while doing intrusive work. Site remediation and/or proper use of PPE, decontamination methods, and other protective measures during these activities would minimize the risk of exposure to impacted groundwater for off-site workers.

## Next Steps

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A Focused Feasibility Study (FS) was prepared by Parsons and submitted to NYSDEC in March 2023 using information developed during the site investigation to develop and evaluate the range of technologies appropriate for Sites 109 and 110. Consistent with the February 2020 Order on Consent, alternatives were developed to consider additional actions that may be necessary beyond those identified in the 2008 ROD due to the change in use of the site, which is anticipated to include commercial development.

Based on the results of the FS, NYSDEC will prepare a draft ROD Amendment. The draft ROD Amendment will describe the remedy preferred by NYSDEC and will summarize the basis for the recommendation of the preferred remedy by discussing each alternative and the reasons for choosing or rejecting it. The goal of any cleanup plan is to protect public health and the environment. NYSDEC will present the draft ROD Amendment to the public for its review and comment during a 30-day comment period and at a public meeting. NYSDEC will consider public comments as it selects the remedy to address impacts related to Sites 109 and 110. The selected remedy will be described in the final ROD Amendment, which will explain why the remedy was selected and respond to any public comments.

# 1.0 INTRODUCTION

On behalf of Honeywell, Parsons has prepared this Remedial Investigation (RI) Report for Operable Units (OU) 1 and 2 of the Tonawanda Coke Site. This RI Report includes the results from the Focused RI completed by Honeywell in 2020 through 2023 as well as the results from several historical investigations completed by others.

OU-1 and OU-2, also known as Sites 110 and 109, respectively, are portions of the former Tonawanda Coke Corporation (TCC) facility located at 3875 River Road in Tonawanda, Erie County, New York (**Figure 1**). TCC filed for bankruptcy protection in 2018 and all industrial activities on the property ceased at that time. On October 10, 2019, the sale of the property was completed to Riverview Innovation & Technology Campus, Inc. (RITC).

Remediation of the property is being completed under two separate New York State Department of Environmental Conservation (NYSDEC) programs: the New York State Superfund Program and the New York State Brownfield Cleanup Program (BCP). The Tonawanda Coke State Superfund Site is listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as Site Number 915055 with a Site Classification of “2” pursuant to Environmental Conservation Law (ECL) 27-1305. Three areas, representing a portion of the former TCC facility property and two sections of National Grid Corporation property, together make up the Tonawanda Coke State Superfund Site (**Figure 2**):

- Site 108 is between River Road and the Niagara River at 3800 River Road.
- Site 109, the subject of this report, at 3875 River Road, lies near River Road on the western portion of the 3875 River Road parcel.
- Site 110, the subject of this report, lies partially in the northeast portion of the 3875 River Road parcel, and extends eastward onto National Grid Corporation property.

These three areas are being addressed under the New York State Superfund Program pursuant to the Order on Consent and Administrative Settlement (Index No. B9-85-2-77D) entered into between Honeywell and the NYSDEC on February 24, 2020. The RI results for Site 108 are detailed in a separate report submitted by Honeywell to NYSDEC.

The remainder of the former TCC facility property is being addressed under the New York State Brownfield Cleanup Program (BCP) pursuant to BCP Agreement (Index No. C915353-02-20) between the NYSDEC and RITC, dated February 14, 2020. This portion of the property is referred to as the BCP Site (Site No. C915353).

The goal is to develop and implement cleanup plans that protect public health and the environment and achieve sustainable remedies that will support the future return of the property to beneficial reuse.

The Riverview Innovation & Technology Campus, Inc. (RITC) owns the properties and is proposing a commercial/industrial complex on the former TCC facility properties at 3875 River Road and 3800 River Road. The campus will bring high technology, jobs, and environmental stewardship to properties that had been mismanaged for decades. The brownfield redeveloper has made dramatic progress transforming the former TCC facility from an abandoned coke facility to a property with a viable long-term vision. The cleanup and redevelopment will allow the Superfund and BCP properties to be restored to productive use. The property can serve a number of uses, such as supporting the technology and commercial resources across the approximately 140-acre campus.

## 1.1 Focused RI Program Objectives

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According to *DER-10 / Technical Guidance for Site Investigation and Remediation* (NYSDEC 2010a) the purpose of an RI is to:

1. Delineate the areal and vertical extent of impacts in all media at or emanating from the site.
2. Determine the surface and subsurface characteristics of the site, including topography, geology, and hydrogeology, including depth to groundwater.
3. Identify the sources of contamination, the migration pathways, and actual or potential receptors of constituents on or through air, soil, bedrock, sediment, groundwater, surface water, utilities, and structures at an impacted site, without regard to property boundaries.
4. Collect and evaluate all data necessary for a fish and wildlife resource impact analysis (FWRIA), to determine all actual and potential adverse impact to fish and wildlife resources.
5. Collect and evaluate all data necessary to evaluate the actual and potential threats to public health and the environment. This includes evaluating all current and future potential public health exposure pathways as well as potential impacts to biota.
6. Collect the data necessary to evaluate any release to an environmental medium and develop remedial alternative(s) to address the release.

Following completion of an earlier Remedial Investigation and Feasibility Study (RI/FS), a Record of Decision (2008 ROD) was issued by NYSDEC on March 31, 2008, which presented the selected remedies for Site 109 and Site 110. The remedies were based on industrial use of the property and required institutional and engineering controls involving restricting access and filing an environmental easement to control future use. The required easement was never filed by the Tonawanda Coke Corporation. The TCC was an active industrial facility at the time of the 2008 ROD. The former TCC facility is now inactive and future site use for Sites 109 and 110 is anticipated to be commercial, rather than industrial. Therefore, as specified in the February 2020 Order on Consent:

“The supplemental investigation of Sites 109 and 110 will be limited to a Focused RI/FS to determine whether and to what extent additional investigation and/or remedial work may be necessary due to the change in use of the site.”

Therefore, in developing the Focused Remedial Investigation Work Plan (RIWP), the RI objectives under DER-10 (NYSDEC 2010a) were considered within the framework of a focused RI, with the primary goal of determining if the remedies prescribed in the 2008 ROD remain protective, given the anticipated change of site use from industrial to commercial, and if not, to determine what additional remedial action may be required.

## 1.2 RI Report Organization

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This RI Report is organized as follows:

- **Section 1 – Introduction**  
Describes the objectives of the 2020/2021 Focused RI and the RI Report organization.
- **Section 2 – Background**  
Provides information regarding the site location and use, and a summary of relevant site history, including former site operations, previous investigations, and previously implemented interim remedial measures (IRMs).
- **Section 3 – Focused Remedial Investigation Data Collection Activities**  
Provides a summary of investigation activities completed as part of the 2020/2021 RI, as well as air monitoring procedures and data management / data validation procedures.

- **Section 4 – Site Physical Characteristics**  
Details site characteristics including topography, geology, hydrogeology, surface water hydrology, and wetlands based on historical data and new data collected during the 2020/2021 Focused RI.
- **Section 5 – Investigation Results and Nature and Extent of Impacts**  
Identifies applicable standards, criteria, and guidance Values (SCGs), discusses data validation and usability, and presents nature and extent of impacts based on the historical investigation and 2020/2021 Focused RI results for each environmental media.
- **Section 6 – Conceptual Site Model (CSM)**  
Presents the current conceptual site model including potential sources, nature and extent of impacts, and fate and transport.
- **Section 7 – Qualitative Human Health Exposure Assessment (QHHEA)**  
Presents the QHHEA results.
- **Section 8 – Preliminary Remedial Action Objectives (RAOs)**  
Presents preliminary RAOs for each impacted environmental media.
- **Section 9 – Summary and Conclusions**
- **Section 10 – References**

## 2.0 BACKGROUND

### 2.1 Site Location and Description

The former Tonawanda Coke property at 3875 River Road is located on the east side of River Road in the Town of Tonawanda, Erie County, New York. Sites 109 and 110 occupy about 12 acres of the properties referenced by Tax Map/Parcel Nos. 64.08-1-10 (RITC), 65.052-1 (National Grid), and 65.05-2-2 (National Grid) at 3875 River Road, Tonawanda, New York 14150 (**Figure 2**).

Site 109 is an approximately 7.5-acre rectangular area oriented perpendicular to the east side of River Road, in the southwestern portion of the former TCC facility property at 3875 River Road. There is a large berm along the west side of Site 109, running parallel to River Road, and another large berm in the east portion of Site 109 closer to the BCP Site boundary. Two concrete-lined settling/separation ponds that are part of the stormwater management system are present on Site 109, as discussed in Section 4.3. The western boundary of Site 109 is approximately 0.3 miles east of the Niagara River. The closest residential area to Site 109 is on James Avenue, approximately 0.4 miles south of Site 109 (**Figure 3**).

Site 110 is an approximately 6.1-acre irregular-shaped area located in the northeast portion of the former TCC facility property. A 1.8-acre triangular portion of Site 110 is east of the former TCC property on land owned by National Grid. There are several sets of high voltage overhead powerlines and underground utilities running across Site 110 on the National Grid property. The topography across the site is relatively flat, except for an elevated area in the south-central portion of the site. The western boundary of Site 110 is approximately 1 mile east of the Niagara River. The nearest residences to Site 110 are located on Ritchie Avenue approximately 0.3 miles southeast of Site 110 (**Figure 3**).



Test pit excavation in berm along western side of Site 109



Drilling at Site 110, with power lines visible on National Grid-owned portion of Site 110.

Sites 109 and 110 are currently zoned for industrial use. The surrounding area is a combination of the BCP Site, commercial and industrial operations, a landfill, utility rights-of-way, and public water utilities. The Erie County Water Authority Van de Water Treatment Plant is located to the southwest, west of River Road.

In addition to the portion of the former TCC facility being addressed under the BCP program, here are several sites subject to NYSDEC remedial programs in the vicinity (**Figure 1**):

| Sites Subject to NYSDEC Remedial Programs  | NYSDEC Site Number | Location                    |
|--|--------------------|-----------------------------|
| The Tonawanda Plastics Site (3821 River Road) – in the BCP                                   | C915003 / 915003   | South of Site 109           |
| Roblin Steel   | 915056             | Northwest of Site 109       |
| River Road/Cherry Farm Niagara Mohawk closed landfill  | 915031 / 915063    | North-northwest of Site 109 |
| The C.R. Huntley Fly Ash Landfill (Niagara Mohawk – Huntley Station)                         | 915076             | North of Sites 109 and 110  |
| The C.R. Huntley Steam Station part of which is in the BCP as the Huntley Power South Parcel | C915337            | Southwest of Site 109       |

## 2.2 Site History

The history of Sites 109 and 110 is linked to the remainder of the former TCC facility at 3875 and 3800 River Road. For purposes of the recent RI, a description of the activities that were conducted on Sites 109 and 110 are included. To provide context, a description of the activities at the overall former TCC facility are included as well.

### 2.2.1 Former TCC Facility

A metallurgical coke manufacturing and by-products plant was operated at the former TCC facility from 1917 through late 2018. The coke-making process involved the removal of gasses, liquids (oils), and tar from coal by heating the coal in the absence of oxygen. The resulting carbon material (coke) was used, among other things, in foundries and for steel production. The by-products were used in the manufacturing process or sold for off-site use. Manufacturing processes used at the plant included by-products coking, light oil distillation, ammonia recovery, and benzene, toluene, and xylene extraction.

The former TCC facility was owned and operated from 1917 through 1947 by Semet-Solvay Company, which was a subsidiary of Allied Chemical and Dye Corporation. In 1947, Semet-Solvay Company was merged into Allied Chemical Corporation, which owned and operated the facility until January 27, 1978, when it was sold to TCC. TCC operated the facility from 1978 until it filed for bankruptcy protection in October 2018, at which time all operations ceased.

Between October 2018 and May 2020, the U.S. Environmental Protection Agency (USEPA) conducted emergency response activities to remove some gases and limited liquids from pipes and tanks, treat wastewater, and manage stormwater.

On October 10, 2019, the property was sold to RITC through a sale ordered by the U.S. Bankruptcy Court. RITC entered the BCP Site into the Brownfield Cleanup Program, and following entry [into](#) the program transitioned responsibility for the properties from the USEPA to RITA between March and June 2020.

The former TCC facility, exclusive of Sites 108, 109, and 110, (**Figure 2**) is the subject of a BCP Agreement.

### 2.2.2 Sites 109 and 110

No active industrial manufacturing processes are known to have occurred on Site 109 or Site 110; in general, both sites appear to have been used for stormwater management, materials management, and disposal. The



stormwater treatment ponds, truck scale, security office, and underground utilities are located on Site 109. The east end of the River Road Tunnel and the footings for the former elevated coal conveyor are also still present along the southern boundary of the site. Site 110 appears to have been used for logistics and disposal.

Placement of industrial and construction and demolition (C&D) wastes from plant operations occurred at multiple areas throughout Site 110. Numerous abandoned vehicles are located on Site 110. Prior to 1978, materials such as tar sludge, fly ash, and cinders were reportedly deposited in the rear of the plant, within Site 110. Site 110 was bound by numerous rail tracks.

In 1977, an unknown quantity of brick, rubble, and demolition material was placed within Site 109. Reinforced concrete settling ponds are present and in use on Site 109 for the treatment and discharge of surface water under a NYSDEC approved Storm Water Pollution Prevention Plan (SWPPP) for the BCP Site.

## 2.3 Site Investigation History

Four major investigations and several other sampling events have previously been conducted at the former TCC facility, focusing primarily on Sites 108, 109, and 110. Historical investigation activities and results from these investigations are summarized below. Historical boring and test pit logs are included in **Appendix A**, historical well construction logs are provided in **Appendix B**, and historical soil data from previous investigations are provided in **Appendix C**.

In July 1982 and May 1983, the U.S. Geological Survey (USGS) performed a study investigating toxic chemical entry into the Niagara River (USEPA 1985). The study consisted of sampling several inactive hazardous waste disposal sites within an approximately 3-mile-wide band along the Niagara River. As part of this program, USGS collected two groundwater samples, ten soil samples, and two surface water samples from the former TCC facility property. Data from these samples were qualified as exceeding analytical holding times and having other quality control (QC) issues that may have compromised the data integrity.

Following the USGS investigation, several major investigations were performed at the former TCC facility, including Sites 109 and 110. Investigation activities are presented in previously submitted reports and summarized in the following table. Historical investigation results are incorporated into the discussion of nature and extent of impacts in Section 5.3.

| REPORT   | ACTIVITIES PERFORMED   |
|--|--|
| <i>New York State Superfund Phase I Summary Report</i> , November 1983, prepared by Recra Research, Inc. | Review of existing data to calculate a USEPA Hazard Ranking System (HRS) Score to assess the relative threat associated with actual or potential release of hazardous substances from the site. As a result of the analysis, Sites 109 and 110 were not ranked or listed under CERCLA. |

| REPORT  | ACTIVITIES PERFORMED  |
|---|---|
| <i>Phase II Site Investigation<br/>Tonawanda Coke Site,<br/>December 1986 prepared by<br/>Malcolm Pirnie, Inc.</i>  | <ul style="list-style-type: none"> <li>• Installation of one overburden groundwater monitoring well at Site 109 and one overburden groundwater monitoring well adjacent to Site 110.</li> <li>• Collection of two groundwater samples from Site 109 (two rounds at one well) and two groundwater samples from Site 110 (two rounds at the one well adjacent to the site).</li> <li>• Excavation of five test pits at Site 109 and four test pits on/adjacent to Site 110.</li> <li>• Collection of one composite soil sample from the four test pits on/adjacent to Site 110</li> <li>• Collection of one surface water sample at Site 109 and one surface water sample adjacent to Site 110.</li> </ul>  |
| <i>Supplemental Site Investigation<br/>Tonawanda Coke Corporation,<br/>Tonawanda, New York,<br/>July 1990 prepared by Conestoga-<br/>Rovers &amp; Associates</i>                                  | <ul style="list-style-type: none"> <li>• Installation of one overburden groundwater monitoring well at Site 109, and two overburden groundwater monitoring wells at/adjacent to Site 110.</li> <li>• Collection of four groundwater samples from Site 109 (two rounds of sampling at two wells) and six groundwater samples from Site 110 (two rounds of sampling at three wells on/adjacent to Site 110)</li> <li>• Excavation of two test pits at Site 110</li> <li>• Collection of one composite soil sample from test pits at Site 110</li> <li>• Collection of six surface water samples at/adjacent to Site 109 and five surface water samples adjacent to Site 110</li> <li>• Collection of one drainage ditch soil sample adjacent to Site 109 and two sediment samples adjacent to Site 110</li> </ul> |
| <i>Additional Site Investigation<br/>Tonawanda Coke Corporation,<br/>Tonawanda, New York,<br/>November 1992 prepared by<br/>Conestoga-Rovers &amp; Associates</i>                                 | <ul style="list-style-type: none"> <li>• Installation of two overburden groundwater monitoring wells off-site of Site 110</li> <li>• Collection of one groundwater sample from a well off-site of Site 110</li> <li>• Collection of five surface water samples adjacent to Site 110</li> <li>• Collection of two sediment samples adjacent to Site 110</li> </ul>   |
| <i>Remedial Investigation Summary<br/>Report, Tonawanda Coke<br/>Corporation, Tonawanda, New York,<br/>May 1997 prepared by Conestoga-<br/>Rovers and Associates</i>                              | Summary of available information from the previous investigations pertaining to groundwater, surface water, soils, drainage ditch soils, and sediments and discussed their significance regarding potential impacts to human health and the environment.  |
| <i>Final Supplemental Report Revision<br/>1 and Feasibility Study, Tonawanda<br/>Coke Corporation, Tonawanda, New<br/>York,<br/>January 2008, prepared by<br/>Conestoga-Rovers and Associates</i> | <ul style="list-style-type: none"> <li>• Collection of five surface soil samples from both Site 109 and Site 110, with one of the Site 110 samples being located slightly outside of Site 110 boundaries.</li> <li>• Excavation of one test pit at Site 110</li> </ul>  |



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## 2.4 Interim Remedial Measures (IRMs)

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In August 2005, an excavation was performed in the area around monitoring well MW-3 adjacent to Site 110 to assess soil conditions and address elevated concentrations of volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, and cyanide in groundwater samples from these wells. (Conestoga-Rovers & Associates 2008). A 90-foot-long, 6-foot-deep trench was excavated parallel to the railroad tracks running adjacent to MW-3R. A small amount of “coal tar” was observed in excavated material. Coal tar was separated from other excavated material and taken by TCC for recycling on-site, by reprocessing during coke manufacturing. The IRM was effective in removing the source of groundwater impacts and no further actions were deemed necessary (Conestoga-Rovers & Associates 2008).

Two IRMs/remedial actions were conducted on and adjacent to Site 109. The sediment was removed from the concrete lined settling ponds on Site 109 in 2021. Over 300 tons of residual sediment from the TCC operations was removed, stabilized, and disposed offsite (Inventum 2021a). Also in 2021, accumulated storm and groundwater, the asbestos containing materials (ACMs), coal conveyor, and tar pipelines were removed from the river road tunnel between Site 109 and 108 (Inventum 2021b).

## 3.0 FOCUSED REMEDIAL INVESTIGATION DATA COLLECTION ACTIVITIES

Data collection activities for the Focused RI were conducted in accordance with the following documents:

- NYSDEC's DER-10 - *Technical Guidance for Site Investigation and Remediation* (NYSDEC 2010a)
- NYSDEC-approved *Final Work Plan, Focused Remedial Investigation and Feasibility Study for Operable Units 1 (Site 110) and 2 (Site 109), Tonawanda Coke Site* (Parsons 2020), including the following appendices:
  - Field Sampling Plan
  - Quality Assurance Project Plan
  - Health and Safety Plan
  - Community Air Monitoring Plan

NYSDEC-approved modifications to the Work Plan during execution of the field work were detailed in correspondence listed below and are included in **Appendix D**.

- Completion of a second round of groundwater sampling with a modified analytical scope, including addition of Monitored Natural Attenuation (MNA) parameters, as detailed in *Remedial Investigation Work Plan Addendum, Operable Units 1 (Site 110) and 2 (Site 109), Tonawanda Coke Site* (Parsons 2021).
- Addition of test pits (TP-33-2020 series) adjacent to MW-06-2020 due to the presence of subsurface tar at MW-06-2020 (Verbal discussion with NYSDEC).
- Addition of one monitoring well (MW-16-2020) installed to address potential impacts downgradient of MW-06-2020. Addition of test pits TP-34-2021 through TP-38-2021 to investigate tar observed on the ground surface along the southern site boundary. Completion of a comprehensive surface inspection at Site 110 to look for tar on the ground surface. Completion of an additional round of groundwater elevation measurements at all Site 109 and Site 110 monitoring wells (04/27/2021 email).

### 3.1 Site 109

The scope of the Focused RI at Site 109 was designed to fill data gaps identified through review of existing data and determine if the existing remedy was protective in light of the change in use from industrial to commercial. Tasks included in the scope for Site 109 are detailed in the following sections:

- Section 3.1.1 - Surface and subsurface soil investigation
- Section 3.1.2 - Drainage ditch surface and subsurface soil investigation
- Section 3.1.3 - Groundwater investigation
- Section 3.3 - Site survey
- Section 3.4 - Groundwater elevation survey
- Section 3.5 - Investigation-derived waste (IDW) management
- Section 3.6 - Community Air Monitoring Plan (CAMP) implementation
- Section 3.7 - Data management and validation

#### 3.1.1 Surface and Subsurface Soil Investigation

The surface and subsurface investigation included soil logging and sampling during test pit (TP) excavations, monitoring well installations, and drainage ditch soil borings (SB). Each surface and subsurface soil investigation activity is discussed in detail in the following subsections. Fill material at the site is primarily historically placed

soils but also includes other materials such as ash and breeze. For convenience, references to “soil” throughout this section include fill soils, underlying native soils, and surface and subsurface materials that are non-soil fill, such as ash and breeze, as well as mixtures of these materials and soil.

#### 3.1.1.1 TEST PIT EXCAVATIONS

To visually assess the types of fill present, allow for subsurface soil sample collection, and provide refinement of the understanding of the vertical and lateral extent of fill, test pits were excavated throughout Site 109 in September 2020, as shown on **Figure 4**. Test pits were excavated at six locations, identified as:

- TP-01-2020
- TP-02-2020
- TP-03-2020
- TP-04-2020
- TP-05-2020
- TP-06-2020

At test pit locations TP-03-2020, TP-04-2020, and TP-05-2020, a center point was located, and test pits were excavated to the north, south, east, and west of the center point. TP-01-2020, TP-02-2020, and TP-06-2020 were single linear test pits excavated to determine the composition of berms.

All test pits were excavated to the top of the clay layer, except at TP-01-2020, where refusal was encountered at 10.6 feet below ground surface (ft bgs) on what appeared to be a concrete slab. The excavator was offset, and another pit was dug in an attempt to reach native soil, but refusal was encountered again on what appeared to be a concrete slab, this time at 10.8 ft bgs. A site drawing from 1967 shows an abandoned transformer station in this area. It is likely that the object causing refusal was the concrete slab from the former transformer station.

As test pits were excavated, soil was visually assessed, photographed, screened with a photoionization detector (PID), and documented in a field log. Test pit logs are provided in **Appendix E**. Once the clay layer was identified or, in the case of TP-01-2020, refusal was reached, the test pit was backfilled by replacing the materials in the reverse order in which they were removed. Care was taken to not leave significant amounts of subsurface soil on the ground surface.

Soil samples were collected for chemical analysis from TP-01-2020, TP-05-2020, and TP-04-2020. At TP-01-2020 and TP-05-2020, surface soil samples were collected from 0 to 0.16 and 0.16 to 1.0 ft bgs. At TP-01-2020, two subsurface soil samples (2.0 to 3.0 ft bgs and 10 to 10.6 ft bgs) were collected to characterize the different types of fill observed. Fill was not observed at TP-05-2020, so the subsurface soil sample was collected from the top of native clay instead of from fill. Analytical sampling was not initially planned for TP-04-2020, so surface soil samples were not collected. However, a subsurface sample was collected at this location due to staining on soil around what may be creosote-treated wood poles.

All samples were analyzed for Target Compound List (TCL) VOCs, SVOCs, pesticides, polychlorinated biphenyls (PCBs), Target Analyte List (TAL) metals and cyanide. Samples from TP-01-2020 were also analyzed for per- and polyfluoroalkyl substances (PFAS). PFAS sampling and analysis followed the guidance provided in NYSDEC's *Guidelines for Sampling and Analysis of PFAS* (NYSDEC 2020).

#### 3.1.1.2 MONITORING WELL INSTALLATION SOIL LOGGING AND SAMPLING

During drilling for the three new monitoring wells installed in October 2020, soil was visually assessed, photographed, screened with a PID, and documented in a field log. At each well boring, soil samples were collected for chemical analysis. Surface soil samples were collected from 0 to 0.16 and 0.16 to 1.0 ft bgs. A subsurface sample was also collected at each of the sampled locations, with subsurface sample depths

dependent upon types of fill present as well as the presence of staining, odors, elevated PID reading, etc. All samples were analyzed for TCL VOCs, SVOCs, pesticide/PCBs, TAL metals, cyanide, and PFAS. Monitoring well installation details are provided in Section 3.1.3.1. Boring logs are provided in **Appendix F**.

### 3.1.2 Drainage Ditch Surface and Subsurface Soil Investigation

To assess the soils within the on-site stormwater drainage ditches, surface and subsurface soil samples were collected in October 2020 at the following locations, as shown on **Figure 4**:

- SB-01-2020 was adjacent to the ditch on the south side of the site.
- SB-02-2020 was located along the ditch on the south side of the site.
- SB-03-2020 was adjacent to the ditch on the north side of the site.
- SB-04-2020 was located in the southwestern corner of the site, where hardened tar had been observed during earlier investigations associated with the Tonawanda Plastics site and adjacent to Outfall-004 (Parsons 2017).

SB-01-2020, SB-03-2020, and SB-04-2020 are considered soil samples because they were collected from the banks of the ditch, or in the case of SB-04-2020, adjacent to the outfall. SB-02-2020 may be considered a sediment sample because it was collected from the bottom of the drainage ditch.

Three of the soil borings were drilled using a drill rig. The fourth boring (SB-02-2020) was too close to possible underground utility locations for drilling with a drill rig; therefore, this sample was collected by hand in December 2020, by hand-pushing a macrocore into the subsurface. Soil boring depths coincide with the depth to the clay layer at each location. During drilling and hand coring, soil was visually assessed, photographed, screened with a PID, and documented in a field log. Boring logs are provided in **Appendix F**.

Soil samples were collected for chemical analysis at each soil boring location. Surface soil samples were collected at 0 to 0.16 ft bgs and 0.16 to 1.0 ft bgs. A subsurface soil sample of the underlying fill was also collected at each soil boring location, except at SB-03-2020, where the subsurface sample was not collected because fill was not encountered. All samples were analyzed for TCL VOCs, SVOCs, pesticide/PCBs, TAL metals and cyanide. Samples from SB-04-2020 were also analyzed for PFAS. PFAS sampling and analysis followed the guidance provided in NYSDEC's *Guidelines for Sampling and Analysis of PFAS* (NYSDEC 2020).

### 3.1.3 Groundwater Investigation

#### 3.1.3.1 GROUNDWATER MONITORING WELL INSTALLATION

Three new groundwater monitoring wells were installed in October 2020 at Site 109 to assess groundwater quality and gradients within the shallow water-bearing zone in fill, perched on top of the clay layer. Monitoring well locations are shown on **Figure 4**. The three new well borings were drilled using a drilling rig and hollow stem augers. During drilling for monitoring well installation, soils were logged, and analytical samples were collected as described in Section 3.1.1.2.

Well screens at MW-01-2020 and MW-02-2020 are 5 feet long. The well screen at MW-03-2020, which is located on top of a berm, is 10 feet long due to a greater depth to clay, and to maximize the potential water-bearing interval within fill. Well screens were installed at the following depths:

- MW-01-2020: 4 to 9 ft bgs
- MW-02-2020: 5 to 10 ft bgs
- MW-03-2020: 10 to 20 ft bgs

All monitoring wells were constructed using 2-inch diameter polyvinyl chloride (PVC) screens and 2-inch diameter PVC riser, all of which were certified clean from the manufacturer. The annular space around the screen was

filled with filter sand to at least 1 foot above the top of the screen, followed by 1 to 2 feet of bentonite, followed by grout to the surface. Exact monitoring well construction was determined based on the depth of clay and screened interval. Monitoring wells were finished with 3-foot stick-up protective casings and a 2-foot diameter concrete well pads. Boring and monitoring well construction logs are provided in **Appendix F**.

When monitoring wells were installed, no groundwater was present for development. Wells were purged prior to groundwater sampling.

### 3.1.3.2 GROUNDWATER SAMPLING

Each of the three newly installed wells, along with the existing well MW-17-89, were sampled in December 2020 and again in September 2021. Existing well MW-04 was found not to be in suitable condition for sampling during project scoping, therefore, consistent with the Focused RI Work Plan, was not sampled. An electronic water level meter was used to measure the depth to groundwater in each well on the day of sampling.

#### 3.1.3.2.1 December 2020 Sampling

Low-flow sampling methods were implemented by purging each well using a peristaltic pump and dedicated high-density polyethylene (HDPE) tubing. Groundwater purging occurred at a rate between 140 milliliters/minute (mL/min) and 500 mL/min. During purging, water quality parameters were monitored at approximately five-minute intervals until parameters were considered stable. Water quality parameters monitored included depth to water, temperature, pH, conductivity, oxidation reduction potential (ORP), dissolved oxygen, and turbidity.

Three wells (MW-01-2020, MW-02-2020, and MW-03-2020) were sampled prior to stabilization due to poor groundwater yield and low recharge rates. Each of these wells was purged dry and allowed to recharge overnight. The samples were collected immediately upon resuming purging the next day, due to slow overnight recharge. For all wells, water quality parameters and field observations during sampling were recorded on groundwater sampling forms and are included in **Appendix G**.

Laboratory analytical parameters for each well from the December 2020 samples were as follows:

|             | MW-01-2020 | MW-02-2020 | MW-03-2020 | MW-17-89 |
|-------------|------------|------------|------------|----------|
| TCL VOCs    | X          | X          | X          | X        |
| TCL SVOCs   | X          | X          | X          | X        |
| Pesticides  | X          | X          |            | X        |
| PCBs        | X          | X          |            | X        |
| TAL Metals  | X          | X          |            | X        |
| Cyanide     | X          | X          |            | X        |
| PFAS        |            |            | X          | X        |
| 1,4-Dioxane |            |            |            | X        |

The sample from MW-03-2020 was analyzed for limited parameters because the well ran dry before all the sample bottles could be filled.

Groundwater samples were collected directly from dedicated sample tubing into laboratory-supplied sample bottles.

During the December 2020 sampling event, groundwater samples from MW-01-2020 turned blue upon being collected into sample bottles for VOCs and metals. These bottles are preserved with hydrochloric acid and nitric acid, respectively, which are both acidic. The reason for the color change is uncertain.

### 3.1.3.2.2 September 2021 Sampling

Low-flow sampling methods were implemented by purging each well using a peristaltic pump and HDPE tubing. Groundwater purging occurred at a rate between 165 mL/min and 500 mL/min. During purging, water quality parameters were monitored at approximately five-minute intervals until parameters were considered stable. Water quality parameters monitored included depth to water, temperature, pH, conductivity, ORP, dissolved oxygen, and turbidity. Water quality parameters and field observations during sampling were recorded on groundwater sampling forms and are included in **Appendix G**.

Three wells (MW-01-2020, MW-02-2020, and MW-03-2020) were sampled prior to stabilization due to poor groundwater yield and low recharge rates. Each of these wells was purged dry and allowed to recharge. Recharge rates were extremely slow. As a result, the wells were allowed to recharge for three days so that there would be sufficient volume for sampling. Samples were collected immediately upon resuming purging.

Based on the results of the first round of sampling (December 2020) and discussion with NYSDEC, the analytical parameter list for the second round of sampling was revised as detailed in the NYSDEC-approved *Remedial Investigation Work Plan Addendum* (Parsons 2021). Revisions to the analytical parameter list included removal of pesticides, PFAS, and 1,4-dioxane, and addition of dissolved constituents, including SVOCs, PCBs, metals, and cyanide. Laboratory analytical parameters for the September 2021 samples were as follows:

|                      | MW-01-2020 | MW-02-2020 | MW-03-2020 | MW-17-89 |
|----------------------|------------|------------|------------|----------|
| TCL VOCs             | X          | X          | X          | X        |
| TCL SVOCs            | X          | X          | X          | X        |
| TCL Dissolved SVOCs  | X          |            | X          | X        |
| PCBs                 | X          | X          | X          | X        |
| Dissolved PCBs       | X          | X          |            | X        |
| TAL Metals           | X          | X          | X          | X        |
| TAL Dissolved Metals | X          | X          | X          | X        |
| Cyanide              | X          | X          | X          | X        |
| Dissolved Cyanide    | X          | X          | X          | X        |

Samples from MW-02-2020 and MW-03-2020 were not analyzed for the full suite of analytes because the wells ran dry before all sample bottles could be filled. Dissolved PCBs were prioritized at MW-02-2020 due to low level PCB detections in the sample from this well during the first round of sampling.

Most samples were collected directly into the sample container from dedicated sample tubing. For samples to be analyzed for dissolved components, a dedicated 0.45-micron pore size disposable filter was attached to the end of sample tubing. Sample water was run through the filter to collect suspended material and the filtered water sample was collected directly into the sample bottle from the discharge end of the field filter.

## 3.2 Site 110

The scope of the Focused RI at Site 110 was designed to fill data gaps identified through review of existing data and determine if the existing remedy was protective in light of the change in use from industrial to commercial. Tasks included in the scope are detailed in the following sections:

- Section 3.2.1 – Surface and subsurface soil investigation
- Section 3.2.2 – Groundwater investigation
- Section 3.3 – Site survey
- Section 3.4 – Groundwater elevation survey
- Section 3.5 – IDW management
- Section 3.6 – CAMP implementation
- Section 3.7 – Data management and validation

### 3.2.1 Surface and Subsurface Soil Investigation

The surface and subsurface investigation included soil logging and sampling during test pit excavations and monitoring well installations. Each surface and subsurface soil investigation activity is discussed in detail in the following subsections.

#### 3.2.1.1 TEST PIT EXCAVATION

To visually assess the types of fill present, allow for subsurface soil sample collection, and provide refinement of the understanding of the vertical and lateral extent of fill, test pits were excavated throughout Site 110, as shown on **Figure 5**.

Five test pits were excavated in October 2020. One additional test pit - TP-33-20—0 - was excavated in November 2020 to further assess the subsurface adjacent to monitoring well MW-06-2020. This additional excavation was initiated in response to the presence of subsurface tar-saturated material encountered during monitoring well installation.

Part of Site 110 is located on National Grid property. In May 2021, National Grid granted access and in June 2021, three additional test pits were excavated on National Grid property. A fourth test pit planned for National Grid property was moved to the northwest, off National Grid property, due to the presence of overhead powerlines precluding safe excavation. The National Grid site boundary was not initially clear in the field, so this test pit location was not excavated until access to National Grid property was granted.

Also in June 2021, five additional test pits (TP-34-2021 through TP-38-2021) were excavated at the request of NYSDEC to investigate surficial tar observations on the south side of Site 110.

In November 2022, two additional test pits (TP-51-2022 and TP-52-2022) were excavated on either side of MW-05-2020 to evaluate potential sources of cyanide detected in groundwater samples from the monitoring well. These test pits were excavated in accordance with the Work Plan for the Focused Remedial Investigation Phase II of Operable Unit 1 (Site 110) (Parsons 2022).

In total, 15 test pit locations were excavated on Site 110 and are identified as:

- TP-07-2020
- TP-08-2020
- TP-09-2020
- TP-10-2020
- TP-11-2020



- TP-12-2020
- TP-13-2020
- TP-14-2020
- TP-15-2020
- TP-33-2020
- TP-34-2021
- TP-35-2021
- TP-36-2021
- TP-37-2021
- TP-38-2021
- TP-51-2022
- TP-52-2022

At most test pit locations, a center point was located, and test pits were excavated to the north, south, east, and west of the center point. This was not done at TP-07-2020, TP-33-2020, or TP-34-2021 through TP-38-2021 where instead, several linear test pits were excavated in the general area of the location, as the goal of these test pits was to identify the extent of previously observed tar material. Offsets from original test pit locations (in addition to north, south, east, and west excavations) were excavated at TP-08-2020, TP-10-2020, and TP-11-2020 to identify the extent of observed tar material. TP-51-2022 and TP-21-2022 were single linear test pits excavated to determine potential sources of cyanide in the vicinity of MW-05-2020.

Test pits were excavated to the top of the clay layer, except for at TP-07-2020D, TP-33-2020D, and TP-38-2021. In TP-07-2020D and TP-33-2020D, significant amounts of water inundated the test pits, precluding safe excavation to native material. In TP-38-2021, a significant amount of rubber (presumed discarded conveyor belting) was encountered, and the excavator became tangled. One offset was attempted and again refusal was reached on rubber.

As the test pits were excavated, soil was visually assessed, photographed, screened with a PID, and documented in a field log. Test pit logs are included in **Appendix E**. Once the clay layer was identified or when excavation could not continue due to water infiltration or refusal, the test pit was backfilled by replacing the materials in the reverse order in which they were removed. Care was taken not to leave significant amounts of subsurface soil on the ground surface.

Soil samples were collected for chemical analysis from TP-07-2020 through TP-09-2020, TP-12-2020 through TP-15-2020, TP-34-2021, TP-51-2022, and TP-52-2022. At each location besides TP-34-2021, TP-51-2022, and TP-52-2022, surface soil samples were collected from 0 to 0.16 ft bgs and 0.16 to 1.0 ft bgs. A subsurface soil sample was also collected at each of the sampled locations, with subsurface sample depths dependent upon types of fill present as well as the presence of staining, odors, elevated PID reading, etc. Multiple subsurface soil samples were collected from TP-14-2020 to characterize the different types of fill present. Although analytical samples were not planned for TP-34-2021, a fill sample was also collected at this location to characterize a nodule and breeze-rich pliable tar/fill mixture.

All samples were analyzed for TCL VOCs, SVOCs, pesticide, PCBs, TAL metals and cyanide. Samples from TP-07-2020 and TP-12-2020 were also analyzed for PFAS. PFAS sampling and analysis followed the guidance provided in NYSDEC's *Guidelines for Sampling and Analysis of PFAS* (NYSDEC 2020).

In a subset of test pits that contained tar material, a sample of tar material was collected for chemical analysis. Samples of tar material were collected from TP-07-2020, TP-08-2020, TP-10-2020, and TP-34-2021. Samples from TP-08-2020 and TP-10-2020 were analyzed by the Toxicity Characteristic Leaching Procedure (TCLP) for regulated SVOCs, metals, pesticides, herbicides, and PCBs; and for ignitability, corrosivity, reactivity, and paint filter test. Samples from TP-07-2020 and TP-34-2021 were sampled for the same analytes; however, after



submission to the analytical laboratory, the analysis was changed to total concentrations for all chemical parameters rather than TCLP due to the consistency of the sample matrix being incompatible with TCLP testing protocols. All four tar samples were analyzed for total VOCs rather than TCLP VOCs due to the potential for damaging the VOC TCLP laboratory equipment due to the sample matrix. Tar samples from TP-08-2020 and TP-20-2020 were of pliable tar/fill mixture only and samples from TP-07-2020 and TP-34-2021 were of pliable tar/fill mixture with a tar-saturated component. Further detailed discussion of the tar material encountered on Site 110 is provided in Section 4.2.3 and results of tar analytical sampling are discussed in Section 5.4.2.3.

### 3.2.1.2 MONITORING WELL INSTALLATION SOIL LOGGING AND SAMPLING

During drilling of soil borings for monitoring well installation, soils were visually assessed, photographed, screened with a PID, and documented in a field log. At each well boring, soil samples were collected for chemical analysis. Surface soil samples were collected at 0 to 0.16 and 0.16 to 1.0 ft bgs at all locations except MW-23-2022. A subsurface soil sample was also collected at each of the sampled locations, with subsurface sample depths dependent upon types of fill present as well as the presence of staining, odors, elevated PID reading, etc. All samples from MW-04-2020 through MW-08-2020 and MW-16-2020 were analyzed for TCL VOCs, SVOCs, pesticides/PCBs, TAL metals, cyanide, and PFAS. The sample from MW-23-2022 was analyzed for TCL VOCs, SVOCs, TAL metals, and cyanide. Monitoring well installation details are provided in Section 3.2.2.1. Boring logs are provided in **Appendix F**.

## 3.2.2 Groundwater Monitoring Wells

### 3.2.2.1 GROUNDWATER MONITORING WELL INSTALLATION

Four new groundwater monitoring wells were installed in October 2020, two in July 2021, and one in December 2022 at Site 110 to assess groundwater quality and gradients within the shallow water-bearing zone on top of the clay layer. MW-23-2022, installed in December 2022, was installed in the area proximate to abandoned vehicles to evaluate whether they may have been a potential source of VOCs in groundwater. The seven well borings were drilled using a drilling rig and hollow stem augers.

All monitoring wells were constructed using 5 to 5.25 feet of 2-inch diameter PVC screen and 2-inch diameter PVC riser, all of which were certified clean from the manufacturer. Well screens were installed at the following depths:

- MW-04-2020: 5 to 10 ft bgs
- MW-05-2020: 4 to 9 ft bgs
- MW-06-2020: 4 to 9 ft bgs
- MW-07-2020: 4 to 9 ft bgs
- MW-08-2020: 1 to 6 ft bgs
- MW-16-2020: 2 to 7 ft bgs
- MW-23-2022: 3.75 to 9 ft bgs

The annular space around the screen was filled with filter sand to at least 1 foot above the top of the screen, followed by 1 to 2 feet of bentonite, followed by grout to the surface. Exact monitoring well construction was determined based on the depth of clay and screened interval. Monitoring wells were finished with 3-foot-high stick-up protective casings and a 2-foot-diameter concrete well pad. Soil boring and monitoring well installation logs are included in **Appendix F**. All wells were developed after installation and purged prior to sampling. All wells were developed by removing 10 well volumes, unless the well went dry, in which case it was purged dry three times. After purging dry, the water level was allowed to recover to 80% before purging again.

### 3.2.2.2 GROUNDWATER SAMPLING

Each of the four groundwater monitoring wells installed in October 2020 were sampled in December 2020. All six new Site 110 monitoring wells (including the four installed in October 2020 and the two installed in July 2021) were sampled in September 2021. MW-23-2022, installed in December 2022, was sampled in January 2023. No other Site 110 wells were sampled at that time. An electronic water level meter was used to measure the depth to groundwater in each well on the day of sampling.

#### 3.2.2.2.1 December 2020 Sampling

Low-flow sampling methods were implemented by purging each well using a peristaltic pump and HDPE tubing. Groundwater purging occurred at a rate between 120 mL/min and 500 mL/min. During purging, water quality parameters were monitored at approximately five-minute intervals until parameters were considered stable. Water quality parameters monitored include depth to water, temperature, pH, conductivity, ORP, dissolved oxygen, and turbidity. Water quality parameters and field observations during sampling were recorded on groundwater sampling forms and are included in **Appendix G**.

One well (MW-07-2020) was sampled prior to stabilization due to poor groundwater yield and low recharge rates. The well was purged dry and allowed to recharge overnight. The sample was collected immediately upon resuming purging.

Laboratory analytical parameters for the December 2020 samples were as follows:

|             | MW-04-2020 | MW-05-2020 | MW-06-2020 | MW-07-2020 |
|-------------|------------|------------|------------|------------|
| TCL VOCs    | X          | X          | X          | X          |
| TCL SVOCs   | X          | X          | X          | X          |
| Pesticides  | X          | X          | X          | X          |
| PCBs        | X          | X          | X          | X          |
| TAL Metals  | X          | X          | X          | X          |
| Cyanide     | X          | X          | X          | X          |
| PFAS        | X          |            |            | X          |
| 1,4-Dioxane | X          |            |            | X          |

Groundwater samples were collected directly from dedicated sample tubing into laboratory-supplied sample bottles.

During the December 2020 sampling event, groundwater samples from MW-04-2020 turned blue upon being collected into sample bottles for VOCs and metals. These bottles are preserved with hydrochloric acid and nitric acid, respectively, which are both acidic.

#### 3.2.2.2.2 September 2021 Sampling

Low-flow sampling methods were implemented by purging each well using a peristaltic pump and HDPE tubing. Groundwater purging occurred at a rate between 100 mL/min and 500 mL/min. During purging, water quality parameters were monitored at approximately five-minute intervals until parameters were considered stable. Water quality parameters monitored include depth to water, temperature, pH, conductivity, ORP, dissolved

oxygen, and turbidity. Water quality parameters and field observations during sampling were recorded on groundwater sampling forms and are included in **Appendix G**.

Two wells (MW-05-2020 and MW-07-2020) were sampled prior to stabilization due to poor groundwater yield and low recharge rates. The wells were purged dry and allowed to recharge for one to two days. Samples were collected immediately upon resuming purging.

Based on the results of the first round of sampling (December 2020) and discussion with NYSDEC, the analytical parameter list for the second round of sampling was revised as detailed in the NYSDEC-approved *Remedial Investigation Work Plan Addendum* (Parsons 2021). Revisions to the analytical parameter list included removal of pesticides, PFAS, and 1,4-dioxane, and addition of dissolved constituents, including SVOCs, PCBs, metals, and cyanide. MNA indicators were also added for a subset of monitoring wells (MW-04-2020, MW-05-2020, MW-06-2020, and MW-08-2020). The results will be used during the Focused FS as part of the evaluation of alternatives.

MNA parameters include nitrate, total nitrogen, sulfate, sulfide, methane, total organic carbon, chloride, and alkalinity. Additionally, a ferrous iron field test was performed using a Hach Iron (Ferrous) Color Disc Test Kit at the subset of MNA wells. Field measurements of pH, ORP, and dissolved oxygen (DO) measured during purging will also be used to evaluate MNA. Lab analytical parameters for the September 2021 samples were as follows:

|                      | MW-04-2020 | MW-05-2020 | MW-06-2020 | MW-07-2020 | MW-08-2020 | MW-16-2020 |
|----------------------|------------|------------|------------|------------|------------|------------|
| TCL VOCs             | X          | X          | X          | X          | X          | X          |
| TCL SVOCs            | X          | X          | X          | X          | X          | X          |
| TCL Dissolved SVOCs  | X          | X          | X          | X          | X          | X          |
| PCBs                 | X          | X          | X          | X          | X          | X          |
| Dissolved PCBs       | X          | X          | X          | X          | X          | X          |
| TAL Metals           | X          | X          | X          | X          | X          | X          |
| TAL Dissolved Metals | X          | X          | X          | X          | X          | X          |
| Cyanide              | X          | X          | X          | X          | X          | X          |
| Dissolved Cyanide    | X          | X          | X          | X          | X          | X          |
| MNA Parameters       | X          | X          | X          |            | X          |            |

Most samples were collected directly into the sample container from dedicated sample tubing. For samples to be analyzed for dissolved components, a dedicated 0.45-micron pore size disposable filter was attached to the end of sample tubing. Sample water was run through the filter to collect suspended material and the filtered water sample was collected directly into the sample bottle from the discharge end of the field filter.

During the September 2021 sampling event, the groundwater samples from MW-05-2020 turned blue upon being collected into sample bottles for metals (total and dissolved). These bottles are preserved with sodium hydroxide, which is basic.

### 3.2.2.2.3 January 2023 Sampling

Low-flow sampling methods were implemented by purging MW-23-2022 using a peristaltic pump and HDPE tubing. Groundwater purging occurred at a rate between 100 mL/min and 500 mL/min. During purging, water quality parameters were monitored at approximately five-minute intervals until parameters were considered stable. Water quality parameters monitored include depth to water, temperature, pH, conductivity, ORP, dissolved oxygen, and turbidity. Water quality parameters and field observations during sampling were recorded on groundwater sampling forms and are included in **Appendix G**.

Based on the data gaps identified during Phase I of the Focused RI and discussion with NYSDEC, only MW-23-2022 was sampled in January 2023 as detailed in the NYSDEC-approved *Focused Remedial Investigation Phase II Work Plan* (Parsons 2022). The MW-23-2022 sample was analyzed TCL VOCs, TCL SVOCs, TAL metals, cyanide, and TOC, as well as dissolved TCL SVOCs, dissolved TAL metals, and dissolved cyanide.

## 3.3 Site Survey

After the excavation of test pits and installation of soil borings and monitoring wells, a New York state-licensed land surveyor completed a site survey. The site survey included collecting as-built geographic coordinates and elevations for test pits, newly installed and pre-existing groundwater monitoring wells (including top of inner casing and protective outer casing elevations), soil borings, site boundaries, and other notable site features. Horizontal survey data are based on the North American Datum of 1983 (NAD83) New York State Plane West coordinate system. Elevations are based on the North American Vertical Datum of 1988 (NAVD88).

## 3.4 Groundwater Elevation Survey

To refine understanding of groundwater gradients, water levels were collected at all three newly installed wells at Site 109, all four newly installed wells at Site 110, and the pre-existing well MW-17-89 at Site 109 in December 2020, prior to groundwater sampling.

Another round of water levels was collected in January 2021. During this gauging event, wells from Sites 108, 109, and 110, as well as the BCP Site and Tonawanda Plastics, were gauged on the same day to provide additional groundwater elevation data around the perimeter of Site 109 and 110.

A third round of water levels were collected in September 2021, prior to groundwater sampling. This gauging event included all Site 109 and 110 wells (including the two wells installed in 2021 at Site 110 subsequent to prior gauging events), Site 108 wells, and a subset of Tonawanda Plastics wells. Water levels were also contemporaneously collected at the BCP Site wells.

A fourth round of water levels were collected in January 2023. Wells from Site 110 and Site 108 were gauged during this event. No Site 109 wells were gauged during this event.

Water levels were measured using an electronic water level meter. Groundwater elevations were calculated based on water level measurements at monitoring wells and surveyed elevations of monitoring wells. Control point (i.e., inner well casing) elevations are presented in Table 2.

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## 3.5 IDW Management

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### 3.5.1 Soils / Solid Waste

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Soils excavated from test pits that did not exhibit any gross impacts were placed back in the cavity after completion of the test pit. For this field effort, gross impacts are defined as soils exhibiting the presence of mobile tar and/or free oils. Fill was separated from clay excavated from a test pit and the clay was replaced in the bottom of the cavity.

When significant amounts of tar were encountered, the material was stockpiled and staged on plastic sheeting adjacent to the test pit from which it originated. Stockpiles were covered with plastic sheeting to protect against precipitation. Samples of tar materials were collected and analyzed as described in Section 3.2.1.1. A record was kept of which test pits produced stockpiled tar-impacted material, and which samples (if applicable) were collected from that material. A record was also kept of the nature of removed tar materials (i.e., composition and consistency). Because multiple waste characterization samples were collected for tar materials displaying different characteristics, stockpiled tar material is represented among the waste characterization sample results. Stockpiles of tar-impacted soils remain onsite and are pending removal during remediation. In December 2022, stockpiles were re-covered with UV-resistant tarps to ensure that piles continue to remain protected from the elements.

Soils from borings conducted for monitoring well installation were stockpiled, containerized in labeled Department of Transportation (DOT)-compliant 55-gallon open-top steel drums and stored in the IDW Storage Area at Site 109. One waste characterization sample was collected for every 100 cubic yards of stockpiled or drummed materials. Approximately one cubic yard of soil was generated between Site 109 and Site 110 soil borings. Therefore, one composite waste characterization sample was collected, representing both Site 109 and Site 110 IDW. The waste characterization sample was analyzed for TCLP VOCs, SVOCs, metals, pesticides, herbicides, and PCBs; and for ignitability, corrosivity, reactivity, and paint filter test. Analytical results from the waste characterization sample indicate that the IDW soils are non-hazardous, and waste transportation and offsite disposal efforts are being coordinated to include Site 108 IDW.

### 3.5.2 Water

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For the initial phases of the project, monitoring well purge water and equipment decontamination water was containerized in 55-gallon open-top steel drums and subsequently disposed of in the on-site frac tank. Water from the frac tank was discharged to the Town of Tonawanda wastewater facilities under RITC's Industrial Sewer Connection Permit No. 331, which allows for up to 2,000 gallons per day for equipment decontamination water from investigations on the 3875 River Road property.

Later discussions between Honeywell, RITC, and the Publicly Owned Treatment Works (POTW) permit manager resulted in a change of protocol to water disposal for water generated on Sites 109 and 110. Beginning with the September 2021 groundwater sampling event, all monitoring well purge water and decontamination water was containerized in 55-gallon open-top steel drums. A waste characterization sample was collected and analyzed for VOCs, SVOCs, pesticides, herbicides, metals, mercury, cyanide, PCBs, pH, flashpoint, and reactivity. Additional waste characterization samples were taken from the Phase II drums: one of decontamination water and one of purge water and analyzed for the same analytes just listed. Water drums remain onsite and are pending removal upon receipt of Phase II characterization results.

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### 3.5.3 Personal Protective and Disposable Sampling Equipment

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Personal protective equipment (PPE), disposable sampling equipment (e.g., tubing), and general trash that may have come in contact with potentially impacted soils/water generated during completion of the Focused RI were containerized in DOT-compliant 55-gallon open-top steel drums and stored in the IDW Storage Area. Drums were labeled as non-hazardous waste.

## 3.6 Community Air Monitoring Plan (CAMP)

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The CAMP was implemented during all ground-intrusive activities to provide data to verify protection for the downwind community. The CAMP required continuous monitoring for VOCs and particulates, established action level concentrations, and defined responses to action levels. VOC and particulate data were monitored in real time via a mobile application, to allow for rapid response if levels exceeded action levels. A summary of CAMP data was prepared daily and posted on the RITC website ([www.riverviewtechcampus.com](http://www.riverviewtechcampus.com)). There were no exceedances of action levels during Site 109 or Site 110 activities.

## 3.7 Data Management and Validation

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Data validation was performed in accordance with USEPA Region 2 standard operating procedures for organic and inorganic data review and the Quality Assurance Project Plan (QAPP) developed for this project (Parsons 2020). These validation guidelines are regional modifications to the National Functional Guidelines for organic and inorganic data review. Validation included the following:

- Verification of 100 percent of all QC sample results (both qualitative and quantitative)
- Verification of the identification of 100 percent of all sample results (both positive hits and non-detects)
- Recalculation of 10 percent of all investigative sample results
- Preparation of a Data Usability Summary Report (DUSR)

The quality of the data has been assessed and is documented in the DUSRs (**Appendix H**).

The following Quality Assurance (QA)/QC samples were collected for each type of sample collected:

- One matrix spike/matrix spike duplicate (MS/MSD) per 20 samples
- One field duplicate sample per 20 samples
- One equipment blank for the full suite of analytes per 20 samples per type of sample collection
- One equipment blank for PFAS analysis per day (only on days that PFAS were sampled for)
- One field blank for PFAS analysis per day (only on days that PFAS were sampled for)
- One VOC trip blank per cooler containing aqueous samples

## 4.0 SITE PHYSICAL CHARACTERISTICS

### 4.1 Topography

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Site 109 is a rectangular area of about 1,000 feet by 250 feet with an undulating surface in some areas. Overall, Site 109 slopes from the east to the west, from elevation 600 feet above mean sea level [ft-amsl] at the boundary with the BCP Site to elevation 576 ft-amsl at River Road .

There are two large berms oriented north-south along the western border of Site 109, with steep slopes extending downward to River Road and to the rest of Site 109. These berms create locally high topography, however in general, the site elevation steadily increases moving east across Site 109. There is another large berm near the east end of Site 109, adjacent to the stormwater settling ponds (**Figure 4**).

Site 110 is an irregularly shaped area about 950 feet long and 500 feet at its widest point on the east side of the BCP Site and on adjacent National Grid property. There is a mounded area about 200 feet by 300 feet in size in the south-central portion of Site 110 where the topography is about 6 feet higher than the surrounding ground (**Figure 5**). Other than this elevated area, topography across Site 110 is relatively flat, varying from approximately 606 ft-amsl to 610 ft-amsl.

### 4.2 Geology

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Fill material is the uppermost stratigraphic unit over most of the former TCC facility property, including Sites 109 and 110, varying in thickness from 0 feet to 16 feet at Site 109 and from 3 feet to 16.5 feet at Site 110 (**Figures 6 through 9**). At Site 109, fill thickness is generally consistent with topography, with the greatest thicknesses of fill in the bermed areas. At Site 110, the thickest layer of fill observed is located in the elevated area in the southern portion of the site. Elsewhere across Site 110, fill thicknesses are relatively consistent, ranging from 3 feet to 9.4 feet, with fill thicknesses thinning eastward.

The fill typically consists of silt and/or clay, gravel, breeze, concrete, brick (yellow and/or red), slag, coke, coal, and ash. Some test pits on both Site 109 and Site 110 contained varying amounts of wood, some of it possibly creosote-treated, which in some cases resembled telephone poles and railroad ties. Several test pits at Site 110 also contained pockets of tar materials, most frequently in the form of a pliable tar/fill mixture (tar and breeze, sometimes with other fill). In many test pits and soil borings, fill material was mixed with blocky, crumbly clay, suggesting that historic activities likely involved using native clay to stabilize and/or cap the fill. Fill materials observed at Site 109 and Site 110 are discussed in further detail in Sections 4.2.1 and 4.2.2, respectively. Types and distribution of tar encountered at Site 110 are discussed in further detail in Section 4.2.3.

Underlying the fill material is a native glaciolacustrine deposit consisting of clay. On the eastern side of Site 109, the clay immediately underlying the fill is soft to stiff and gray to gray-green in color. This gray clay was observed in several test pits and soil borings across Site 110 as well, where it occasionally is a yellow-gray color and contains some black, fibrous organic material. Where encountered, the softer gray clay is only 1 foot to 2 feet thick, and overlies stiffer, reddish-brown clay. Where gray clay was not encountered, the uppermost native material is stiff, reddish-brown clay. Locally, the topography of the top of the clay unit has been modified during historic site uses such as excavations for storage areas, building foundations, surface water management, as well as apparent excavation of clay for use as fill cap material.





Clay underlying fill at TP-11-2020.

No borings were completed through the clay as part of the Focused RI at Sites 109 and 110. However, as part of the BCP Site investigation, four soil borings were drilled through the clay to the top of bedrock and subsequently drilled into bedrock. According to these borings, the clay unit consists of a stiff, dry, silty clay with low to medium plasticity overlying a higher plasticity clay, which overlies bedrock at approximately 50.7 to 54 ft bgs (548.61 to 553.8 ft-amsl). Two borings have also been drilled to the top of rock at the Tonawanda Plastics property, which is directly south of Site 109. These borings primarily consisted of clay or silty clay with some lenses of silty and gravelly clay. Refusal, presumably on bedrock, was encountered in these borings at 44 and 36.4 ft bgs, corresponding to elevations of 550 and 552.4 ft-amsl (Parsons 2017), consistent with the BCP Site data.

Based on regional data, bedrock underlying the site is the Salina Group, specifically the Camillus shale, which is a shale and mudstone. The Camillus shale also contains gypsum, dolomite, and significant thicknesses of salt beds (La Sala 1968). Four borings advanced on the BCP Site included coring approximately 12 feet into bedrock, which consisted of thinly laminated shale with pockets of gypsum. Rock quality designations (RQDs) from these cores ranged from 75 percent at the top of rock (in the 54 to 56 ft bgs interval) to 13 percent in the bottommost (61 to 66 ft bgs) interval and water loss to the formation was noted from 62 to 63 ft bgs.

RQDs from the Huntley Steam Generation Site along the Niagara River one-half mile south of Site 109 described the top of rock as thinly bedded and weathered (Goldberg-Zoino Associates 1983).

#### 4.2.1 Site 109 Fill Material

In general, fill material encountered at Site 109 during the Focused RI was composed of silt, clay, and C&D debris, including concrete, red brick, yellow fire brick, rock fragments, and wood. Several test pits also contained coke and coke manufacturing by-products including silt to gravel sized breeze and coal. Three locations (TP-01-2020, TP-06-2020, and MW-03-2020) also contained varying amounts of what appeared to be slag. TP-01-2020 and MW-03-2020 are both located in the berm on the west side of Site 109, while TP-06-2020 is located in the berm on the east side of the site. Fill from MW-03-2020 also contained finer grained materials that may be fly ash. These results are consistent with data from historical test pits, which generally indicate similar types of fill material at Site 109.



In TP-04-2020, large wooden poles, resembling telephone poles, were uncovered between 0.16 and 3.0 ft bgs. The poles appeared to have been treated with creosote, based on shiny black-gray color and creosote-like odor. These wood poles were embedded in a reworked layer of clay fill, which had black-gray staining and sheen. A sample of this potentially impacted clay was collected for chemical analysis. Results of this sample are discussed in Section 5.4.2.3.



Silt, clay, coke fragments, brick, and concrete at TP-03-2020.



Breeze-rich fill also containing silt, rock, metal, wood, coal, coke, slag, and brick at TP-06-2020.



Potentially creosote-treated wood poles pulled from TP-04-2020.



Chunks of slag from TP-06-2020.

## 4.2.2 Site 110 Fill Material

The primary component of fill at Site 110 is classified as coke breeze. Most test pits also contained varying amounts of silt, sand, gravel, coke, coal, red brick, and yellow fire brick. Several test pits also contained slag and one test pit (TP-10-2020) contained significant amounts of what was identified in the field as fly ash. Many test pits also contained debris including glass, wood, and plastic sheeting and fragments. These observations are

generally consistent with historical test pits at Site 110, although historical test pits documented several test pits with “cinders”, which were not seen during the Focused RI.

Many test pits from the Focused RI also contained “nodules.” These are presumed to be a man-made material, potentially associated with a furnace of some sort. Nodules were typically the size of fine to medium gravel, generally smooth on the outside, ranged from deep red to brown to yellow in color, and were somewhat powdery when cracked open. Often, nodules appeared in wet, sandy fill layers and sometimes appeared to be oxidized on the outside.

In TP-14-2020, a blue sandy silt and woody debris fill with a strong sulfur-like odor was encountered overlying native soil in all test pit extents. In TP-51-2022 and TP-52-2022, a layer of red-brown wood chips with a strong chemical odor was encountered in each. There was a hard layer with minimal blue staining above the wood chips, but no blue staining on the wood chips themselves. The red-brown wood chips were not observed elsewhere on Sites 109 or 110 and are consistent with purifier residuals. The different characteristics of the blue and red-brown fill observed in TP-14-2020 and TP-51-2022 and TP-52-2022, respectively, demonstrate the variability in the appearance of purifier residuals.

At TP-07-2020, several large pieces of wood, possibly railroad ties that appeared to be coated with creosote or tar, were pulled from just beneath the surface. Tar materials were also encountered in several test pits throughout Site 110. Tar materials encountered had a variety of compositions and properties and are described in detail in the following section.



Breeze-rich fill also containing nodules and debris at TP-09-2020



Breeze and nodule fill overlying gray with yellow mottling, grading to red native clay at TP-11-2020.





Blue, woody fill at TP-14-2020.



Breeze, silt, and nodule fill at TP-12-2020.

### 4.2.3 Site 110 Tar Material

Based on test pits completed as part of the Focused RI, surface and subsurface tar is present in several locations within Site 110, however tar saturated material occurred only in relatively small and isolated areas. A summary of tar materials observed, locations, depths, and details are provided in **Table 1**, illustrated on **Figure 10**, and shown on test pit and monitoring well installation logs in **Appendices E and F**.

It appears that tar at Site 110 is the result of historical placement for disposal at the specific locations where tar was encountered, rather than subsurface migration, because tar was nearly always encountered as a pliable tar/fill mixture (i.e., generally mixed with breeze and sometimes other fill materials). These other materials were potentially used as a means of stabilizing tar for disposal based on observations during test pitting. Additionally, tar materials appeared as discontinuous layers and pockets of various types of tar products, rather than as a continuous sitewide layer.

#### 4.2.3.1 TYPES OF TAR MATERIAL

The different varieties of tar material found at Site 110 have been classified into the following categories, which are based on consistency and composition and potential for mobility:

- **Tar Saturated**

Tar saturated consists of relatively low viscosity tar that can drain from the soil matrix under gravity. Low viscosity was classified on the basis that tar was observed dripping from side walls in test pits or could be easily manipulated by hand. While the viscous Tar Saturated classification was based on observations of tar that may drain from a sidewall of an excavation after the adjacent soil has been removed, it is not necessarily indicative of subsurface mobility.



The top of a layer of tar saturated material at TP-34-2021.

- **Coated Material**

Low viscosity tar that does not move independently from the matrix and the matrix is not saturated. Coated material observed included a breeze/soil/nodule mixture coated with low viscosity tar, as well as large railroad ties coated with low viscosity tar.



Coated railroad ties at TP-07-2020.

- **Pliable Tar and Pliable Tar/Fill Mixture**

Does not move freely but can be deformed by hand pressure and will hold the deformed shape. Pliable tar was commonly observed as a tar/fill mixture, with tar and most commonly breeze or nodules, forming a pliable mixture. Pliable tar was also commonly encountered mixed with debris including plastic sheeting, metal cans, and concrete. Pliable tar/fill mixture was observed at Site 110 as both continuous layers and discrete chunks and pockets.



Chunk of pliable tar/fill mixture (mixed with breeze and nodules) at TP-35-2021.

- **Hardened/Solidified Tar, Hardened Tar/Fill Mixture**

Does not move freely and cannot be deformed by hand. Hardened tar was commonly observed as a tar fill mixture, most frequently consisting of a hardened mix of tar, breeze, nodules, and sometimes C&D. Hardened/solidified tar often formed a solid ledge that was strong enough support its own weight when underlying material was removed. Hardened tar was also observed as small, discrete chunks.



Ledge of hardened tar at TP-33-2021.

#### 4.2.3.2 DISTRIBUTION OF TAR MATERIALS AT SITE 110

Tar-saturated material, which is the only form of tar encountered at Site 110 that appears potentially mobile, was found in three very localized areas (**Figure 10**):

- Test pit TP-07-2020, which was previously identified as Tar Seep No. 1
- Test pits TP-34-2021 and TP-35-2021, which are adjacent to each other along the southern boundary of Site 110
- Test pit TP-33-2020 and monitoring well MW-06-2020, which are adjacent to each other



TP-07-2020 was excavated to investigate an area where surficial tar seeps had previously been observed. Pliable tar/fill mixture (mixed with breeze) and little tar-saturated material was observed from 2.5 to 3.5 ft bgs. Multiple additional test pits were excavated to the south, west, and north of TP-07-2020, and while pliable tar/fill mixture was encountered in test pits to the south and west, tar-saturated material was not encountered again.

TP-34-2021 and TP-35-2021 were excavated to investigate areas on the southern boundary of Site 110, along the former rail alignment, where surficial tar seeps had previously been observed. In TP-34-2021, tar-saturated material was encountered at 1.5 ft bgs and graded into pliable tar/fill mixture (mixed with breeze and nodules with some clay towards the bottom of the interval). TP-35-2021, pliable tar fill mixture as well as C&D debris coated with pliable tar was observed just beneath the surface. A mixture with varying amounts of tar, breeze, nodules, coke, gravel, and C&D continued to 7.7 ft bgs, with a discrete layer of tar-saturated material 3.0 to 3.25 ft bgs. Additional test pits were excavated to the east and west of TP-34-2021 and TP-35-2021 to determine the extent of tar, and tar was not observed in either direction. Additional test pits were excavated to the north as well to determine the extent of tar in this direction. Tar was not observed, but test pits did not reach native soil due to refusal on rubber debris.

During installation of monitoring well MW-06-2020, tar-saturated material was encountered from approximately 6 to 6.7 ft bgs, coinciding with a zone of groundwater saturation. To determine the extent of tar-saturated material, five test pits were dug in the vicinity of the well. Tar-saturated material was only encountered in one of these test pits, located directly south of the well. This test pit, TP-33-2020D, had tar-saturated material and hardened tar/fill mixture from 4.5 to 5.0 ft bgs. An additional pit (TP-33-2020F) was excavated to the south to delineate the extent of tar-saturated material. No tar was encountered in test pit TP-33-2020F.

### 4.3 Surface Water Hydrology

Surface water hydrology for Sites 109 and 110 are considered within the context of the site stormwater management program. At the time of the bankruptcy, the TCC facility discharged stormwater to the Niagara River under State Pollution Discharge Elimination System (SPDES) Permit Number NY0002399 (NYSDEC 2017) through three outfalls (**Figure 4**), identified as 001, 002, and 004. Outfall 003 was not in use at the time of the bankruptcy and there had been no flow from this outfall since 2008 (TCC 2016).

Outfall 001, located on Site 109, served as the historical discharge point for noncontact cooling water, boiler blowdown and stormwater runoff from the former production area after treatment in two concrete-lined settling/skimming ponds/lagoons, also located on Site 109.

Outfall 002, located on the BCP Site, at the southeastern boundary of Site 109, served and still serves as the discharge point for runoff from the coal and coke yards.

Outfall 004 discharges the combined flow from Outfalls 001 and 002 on Site 109 as well as flow from portions of the Tonawanda Plastics property. Outfall 004 discharges to a drainage ditch on the east side of River Road where it combines with flows from other industrial properties north and south of Site 109. The combined flow is conveyed through a culvert under River Road, into a drainage ditch on Site 108, and finally to the Niagara River.

As a condition of their SPDES permit, TCC developed a Best Management Practices Plan (BMP) in September 2016, which described institutional and engineering controls to minimize the potential for release of pollutants to waters of New York state (TCC 2016). Among others, these included maintenance and operation of the two concrete-lined settling/separation ponds at Outfall 001 located on Site 109 and a series of earthen settling/sedimentation basins in the coal and coke yards hydraulically upgradient of Outfall 002.

TCC surrendered their SPDES permit after the 2018 bankruptcy and the USEPA assumed management of stormwater controls on the BCP Site, Site 108, Site 109, and Site 110. The USEPA continued a program of

monthly, quarterly, and semiannual monitoring through May 2020. Currently, stormwater for the property at 3875 River Road is managed under RITC's Stormwater Pollution Prevention Plan (SWPPP) (Inventum 2020a)

A drainage ditch that is part of the stormwater management system runs along the southern border of Site 109 and receives surface flow from Site 109 and the Tonawanda Plastics Site (**Figure 4**). This ditch flows west and drains into the Outfall 004 on the east side of River Road, which directs flow underneath the road onto Site 108. Another drainage ditch flows along the north side of Site 109 and directs surface water under the western berm and combines with flow from Outfall 004 and other discharges along and from River Road. The discharge combines with flow from the west side of River Road and Site 108 and is conveyed in a ditch that traverses Site 108 before flowing west into the Niagara River.

Site 110 is relatively remote from the site stormwater management system. Based on topography, surface water likely flows locally in all directions from the elevated mound near the center of the site. Based on the presence of wetlands (see Section 4.4) along the northeast and southeast site boundaries, some surface water may flow in these directions.

## 4.4 Wetlands

As part of RI/FS activities for the BCP Site described in the RI Work Plan (Inventum 2020b) prepared on behalf of RITC, a wetland delineation was conducted. The wetland delineation identified a wetland to the north of Site 110 that does not fall within Site 110. A 41-acre, state-regulated freshwater wetland, designated BW-6, borders Site 110 to the south and east, according to the NYSDEC Environmental Resource Mapper. The wetland delineation also identified four additional Palustrine Emergent (PEM) wetlands on Sites 109 and 110, totaling 0.908 acres (Earth Dimensions, Inc. 2021). The wetland delineation identified the wetlands as being non-federally jurisdictional under the Navigable Waters Protection Rule due to apparent lack of connectivity to an intermittent or perennial stream. A letter was submitted to the USACE and NYSDEC requesting Approved Jurisdictional Determination (AJD) for the investigation area. In a letter dated February 1, 2022, the NYSDEC determined that none of the wetlands identified are state regulated. In a letter dated January 6, 2023, the USACE issued a letter confirming that these areas are not waters of the U.S. and are not regulated under Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act of 1899. Correspondence with the USACE related to wetlands is included as **Appendix I**.

## 4.5 Hydrogeology

Fill on top of the clay layer is the uppermost water-bearing unit at the former TCC facility, including Sites 109 and 110. This is a perched fill unit and is likely a series of pocketed saturated areas, some of which are connected while others are isolated. Due to the irregular characteristics of the uppermost water-bearing unit, the fill water-bearing zone at Sites 109 and 110 cannot produce an adequate volume for groundwater use and is not suitable as a source of potable water. After purging, these wells required 24- to 36-hours to produce enough water to fill sample bottles before going dry.

Fill at Site 109 was noted to frequently contain large amounts of clay, likely contributing to low and variable permeability. Groundwater was not encountered during installation of any of the monitoring wells at Site 109. As a result, monitoring wells were installed dry, with the expectation that fill may transmit water seasonally. Water was also not encountered in any test pits at Site 109. Groundwater was present in Site 109 monitoring wells during subsequent gauging and sampling events (December 2020, January 2021, and September 2021);



however, during sampling, wells displayed low productivity and were slow to recharge. Average static water levels in Site 109 wells were:

- 8.11 ft bgs in December 2020
- 8.63 ft bgs in January 2021
- 7.88 ft bgs in September 2021

At Site 110, the fill was more commonly saturated than at Site 109, but the water-bearing unit in fill still appears to be discontinuous and highly dependent upon the nature of fill. During monitoring well installation at Site 110, water was observed at approximately 6 ft bgs in MW-04-2020 through MW-06-2020, 5 ft bgs in MW-07-2020, 2.5 ft bgs in MW-16-2020, 1.5 ft bgs at MW-23-2022, and 0.5 ft bgs in MW-08-2020. Groundwater was also encountered during excavation at 29 out of 50 test pit arms at Site 110. In test pits excavated at TP-07-2020, water was only encountered in two out of five excavations. In one of these excavations (TP-07-2020D), water was not encountered until a wooden pole was pulled from the sidewall, at which point water flowed from the cavity where the pole had been and inundated the test pit. The nature of water within this test pit exemplifies the highly variable nature of groundwater in the fill at Site 110, with the presence and flow of water being highly dependent upon the types of fill material. Average static water levels at Site 110 wells were:

- 3.96 ft bgs in December 2020
- 4.07 ft bgs in January 2021
- 5.13 ft bgs in September 2021
- 3.23 ft bgs in January 2023

Groundwater elevations were calculated for Sites 109 and 110 using static depths to water and top of PVC riser elevations from the site survey. Measured groundwater elevations for all gauging events are included in **Table 2**. Site 109 and 110 groundwater elevation contours from all gauging events are presented in **Figures 11a through 11c** (Site 109) and **12a through 12d** (Site 110). For gauging events that included contemporaneous water level measurements at Site 108, Tonawanda Plastics, and the BCP site (January and September 2021), groundwater elevation data from relevant wells at these sites were also used to develop Sites 109 and 110 modeled groundwater contours.

Although groundwater is likely discontinuous across the site due to the variable thickness and nature of fill, including some low-permeability, clay-rich fill, groundwater elevations from all three gauging events suggest that the groundwater gradient is generally to the west-southwest across Site 109.

Groundwater elevation data indicate that the groundwater gradient is extremely flat across Site 110. Data from all four monitoring events indicate a slight eastward gradient. Historical data from July 1992 also indicate a generally eastward groundwater gradient across Site 110.

The underlying clay unit has a hydraulic conductivity of about  $3.3 \times 10^{-8}$  centimeters per second in the dense, silty upper clay zone and  $2.1 \times 10^{-8}$  centimeters per second in the high plasticity lower clay zone, indicating that this unit serves as an aquitard to vertical groundwater movement (Inventum 2021c). Because the clay unit serves as an aquitard, vertical groundwater flow through clay is restricted. Therefore, groundwater flow primarily occurs horizontally within fill, along the top of the clay unit, and is likely controlled by the permeability of fill and local surface water discharge points.

Based on regional hydrogeology, the upper bedrock, which is at a depth of approximately 54 ft bgs to 50.7 ft-bgs at the BCP Site (Inventum 2021c), is expected to be water-bearing. However, given the aquitard between the water-bearing fill and bedrock, the two units are not hydraulically connected.

## 5.0 DATA SUMMARY AND NATURE AND EXTENT OF IMPACTS

### 5.1 Waste and Residual Characteristics

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The coke plant at the former TCC facility heated coal in the absence of oxygen to separate the liquids and gasses from the coal and leave the residual carbon. The residual carbon, referred to as coke, was the primary product produced at the former TCC facility. The processes followed to produce coke and its associated by-products are well understood. The materials used and resulting from the production of coke that may have impacted materials disposed of at Sites 109 and 110 are also well understood:

- **Coal**  
Three types of metallurgical “met” coal were used to produce coke at the former TCC facility. Coal is a naturally occurring sedimentary material. For reference, **Table 3** includes analysis of a coal sample collected from the main plant site at the former TCC facility.
- **Coke/Breeze**  
Coke is the carbon left after the liquids and gasses have been removed from the met coal. Coke is a relatively inert material. Fine grained coke, typically resulting from crushing and screening, is referred to as breeze. For reference, **Table 3** includes analysis of a coke sample collected from the main plant site at the former TCC facility. The analysis indicates the effectiveness of the coking process in removing the VOC and SVOC constituents of coal.
- **Tar**  
Tar was removed from coal as part of the coke manufacturing process and was processed at the coke plant of the former TCC facility as part of the coke by-products operations. Tar in its production form was sold and used as a component of asphalt, roof shingles, and other commercial and industrial goods.
- **Oil**  
Oils containing benzene, toluene and xylenes and other chemicals were by-products of the coking operations. These compounds are similar to the components of gasoline. These liquids were present in containers, pipes, tanks, and process equipment at the main plant. In their pure clean form, they are used to produce other chemicals and plastics. Fuel oil, diesel fuel and lubricating oils were used for power production, heavy equipment, rail operations, and machinery.

The majority of these materials can be identified at Sites 109 and 110 either by their physical characteristics or by the presence of their component constituents:

- **VOCs**  
Found predominately in light oils. The majority of VOCs produced at TCC were conveyed and consumed in the coke oven gas (COG) at former TCC facility or sold for further refining and use as feedstock for manufacturing. VOCs are also found at low concentrations in coal.
- **SVOCs**  
Prevalent in coal, coke, tar, oils, and ash.

- Polycyclic aromatic hydrocarbons (PAHs)  
A subset of the SVOCs and present in coal, coke, tar, oils, and ash.
- Naphthalene  
A by-product of coke making and prevalent in coke oven gas (COG) residuals and the process equipment from the tar processing area, through the concentrators, and precipitators. Also present in coal and tar.
- Cyanide  
A constituent of the COG and present in the gas processing equipment. Cyanide was concentrated historically in the purifier boxes before the COG was sold for off-site consumption.

## 5.2 Standards, Criteria, and Guidance (SCG) Identification

This RI Report evaluates the extent to which SCGs have been exceeded. This includes consideration of SCGs related to soil and groundwater, as detailed below.

### 5.2.1 Soils

A soil cleanup level may be derived from one or more of the following:

- New York Codes, Rules, and Regulations 6 NYCRR 375-6.8(a) or (b)
- Modified from the regulatory value based on site-specific characteristics
- Based on other information, including background levels or feasibility

Feasibility means suitable to site conditions, capable of being successfully carried out with available technology, implementable and cost effective (see 6 NYCRR 375-1.2(s)).

Future use of Sites 109 and 110 will be commercial, therefore surface and subsurface soil data are compared to Commercial Use Soil Cleanup Objectives (SCOs), as established in 6 NYCRR Part 375 (NYSDEC 2006). A total PAH concentration of 500 mg/kg may be used as a soil cleanup level in lieu of achieving all of the PAH-specific SCOs in 6 NYCRR 375-6 for non-residential use sites (i.e., commercial or industrial use sites) for all subsurface soil, which is defined for this provision as “soil beneath permanent structures, pavement, or similar cover systems; or at least one foot of soil cover (which must meet the applicable SCOs)” (NYSDEC 2010b).

PFAS soil results are compared to Commercial guidance values included in *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs* (NYSDEC 2021).

Fill material at the site is primarily historically placed soils but also includes other materials such as ash and breeze. For convenience, references to soil and comparisons to soil SCOs include fill soils, underlying native soils, and surface and subsurface materials that are non-soil fill, such as ash and breeze, as well as mixtures of these materials and soil.

### 5.2.2 Groundwater

Groundwater data for VOCs, SVOCs, PCBs, pesticides, cyanide, and metals are compared to Class GA water quality standards and guidance values under Division of Water *Technical and Operational Guidance Series* (TOGS) 1.1.1. (NYSDEC 1998). Groundwater data for PFAS are compared to the screening levels established in 2023 Addendum June 1998 *Division of Water Technical and Operational Guidance No. 1.1.1* (NYSDEC 2023).

## 5.3 Data Validation and Usability Reports (DUSRs)

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Analytical results from all samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Final Work Plan, Focused Remedial Investigation and Feasibility Study for Operable Units 1 (Site 110) and 2 (Site 109), Tonawanda Coke Site (Parsons 2020), including the QAPP
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review
- *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs* (NYSDEC 2021)

The analytical laboratory for this project was ALS in Rochester, New York. This laboratory is certified to conduct project analyses through the New York State Department of Health (NYSDOH) and the National Environmental Laboratory Accreditation Program (NELAP).

Certain reported results were qualified as estimated based on various factors. The reported analytical results for all analyses were 100 percent complete (i.e., usable).

## 5.4 Investigation Results and Nature and Extent of Impacts by Media

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Analytical results for samples collected during the Focused RI, organized by site and sample media, are presented in the following subsections. Analytical results are compared to SCGs as described in Section 5.2. Based on analytical results, as well as the results from historic investigations, a discussion of the extent of impacts for each sample media is also provided.

### 5.4.1 Site 109

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#### 5.4.1.1 SURFACE AND SUBSURFACE SOIL

Validated surface (0.0 to 0.16 ft bgs and 0.16 to 1.0 ft bgs) and subsurface (greater than 1.0 ft bgs) soil sample analytical results and exceedances of SCGs from the 2020/2021 Focused RI are shown in **Table 4** and data from historical investigations are included in **Appendix C**. Complete subsurface soil analytical results from the Focused RI are included in the DUSR in **Appendix H**. Soil sample results summarized below are inclusive of historical and Focused RI data collected from test pits, monitoring wells, and soil borings in drainage ditches.

As shown on **Figure 13 through 17**, Commercial SCGs are exceeded for one or more compounds in at least one surface soil sample from 13 of the 14 Focused RI and historical sample locations. Exceedances of SCGs in subsurface soil are less frequent than in surface soils, with at least one compound exceeding Commercial SCGs in five of the nine Focused RI soil sample locations. Concentration of some SVOCs and one metal exceed Commercial SCGs as detailed in the following subsections. These results are consistent with historical data, which indicate SVOC exceedances of Commercial SCGs, but no exceedances for VOCs, metals, or cyanide.

NYSDEC has determined that the Soil SCGs for the Protection of Ecological Resources would also be applicable to the surface soils within the onsite ditch. These criteria are typically lower than the Commercial Use SCGs. Ditch soil results were not compared directly to these criteria, however, given that all ditch surface soil samples exceeded the Commercial Use SCGs, they would also exceed the SCGs for the Protection of Ecological Resources.

#### 5.4.1.1.1 Volatile Organic Compounds

There were no exceedances of Commercial SCGs for any VOCs, indicating VOC impacts to soils at Site 109 are not a concern.

#### 5.4.1.1.2 Semivolatile Organic Compounds

Results indicate SVOC concentrations exceeded the Commercial SCG in at least one sample from 14 of the 15 sampled locations, as shown on **Figures 14 through 16**. All SVOCs that exceed standards are PAHs. The SVOCs that exceed SCGs are:

- benzo(a)anthracene
- benzo(a)pyrene
- benzo(b)fluoranthene
- chrysene
- dibenzo(a,h)anthracene
- indeno(1,2,3-cd)pyrene.

SVOC exceedances and the range of concentrations in surface and subsurface soil are summarized in the following table:

| Compound               | Frequency of Exceedances (out of 28 collected samples) <sup>1</sup> | Commercial SCG (mg/kg) | Minimum Concentration (mg/kg) | Maximum Concentration (mg/kg) | Average Concentration (mg/kg) <sup>2</sup> |
|------------------------|---|------------------------|-------------------------------|-------------------------------|--|
| Benzo(A)Anthracene     | 7   | 5.6                    | 0.014                         | 96                            | 9.3  |
| Benzo(A)Pyrene         | 19  | 1                      | 0.021                         | 86                            | 9.0  |
| Benzo(B)Fluoranthene   | 8   | 5.6                    | 0.023                         | 83                            | 9.1  |
| Chrysene               | 1   | 56                     | 0.015                         | 70                            | 6.8  |
| Dibenzo(a,h)Anthracene | 8   | 0.56                   | 0.0042                        | 9                             | 1.1  |
| Indeno(1,2,3-Cd)Pyrene | 8   | 5.6                    | 0.016                         | 40                            | 5.7  |
| Total PAHs             | 1   | 500                    | 0.18                          | 940                           | 91   |

Notes:

1. Frequency denotes the number of wells where exceedance occurred during at least one sampling event.
2. For non-detects, half of the detection limit was used for calculating the average.

Surface soil (0.0 to 0.16 ft bgs and 0.16 to 1.0 ft bgs) exceedances for SVOCs are widespread across Site 109, with nine out of nine Focused RI surface soil sample locations showing concentrations exceeding the Commercial SCGs in one or both surface soil sample intervals. These results are consistent with historical investigations, which indicate SVOC exceedances of Commercial SCGs at four out of five sample locations.

The highest SVOC concentrations in surface soil from the 2020 Focused RI occur in samples from SB-01-2020 and SB-02-2020, which are both located within an on-site drainage ditch that runs along the south side of the site. Subsurface soil samples did not exceed Commercial SCGs at these locations, indicating the elevated concentrations in surface soils may be due to spills from the former elevated coal conveyor running through this area and/or due to erosion and transport of soils impacted with coal and coke from areas upgradient of Site 109 into the on-site drainage ditch.

Exceedances of SCGs for SVOCs in subsurface soil are less widespread than for surface soil, with five out of nine sampled locations having concentrations of at least one SVOC exceeding the Commercial SCGs. The highest subsurface SVOC concentrations in subsurface soil were detected in a sample from TP-01-2020, excavated in the western berm, which contained coal in the sample interval, likely contributing to elevated PAH concentrations. The sample collected from stained clay around potentially creosote-treated poles in TP-04-2020 only contained one low-level SVOC exceedance, indicating that surrounding soil is not significantly impacted by the utility pole.

The maximum total PAH concentrations measured at each sampling location are shown in **Figure 16**. Total PAH concentrations exceeding the Commercial SCG of 500 milligrams per kilogram (mg/kg) only occurred in one sample from one location during the 2020/2021 Focused RI (the 0.0 to 0.16 ft bgs depth interval at SB-02-2020) and one sample during historical investigations (SS-9). Elevated concentrations in the sample from SB-02-2020 may be due to spills from the former elevated coal conveyor running through this area and/or due to erosion and transport of soils impacted with coal and coke from areas upgradient of Site 109 into the on-site drainage ditch. This sample was collected from the area of a road leading from the truck scale area to the settling ponds and “coke dust” was noted in historical sample SS-9, potentially contributing to elevated levels of PAHs in this sample (CRA 2008). Additionally, all samples that yielded the highest concentrations of PAHs, including those within the onsite drainage ditch, contained varying amounts of breeze, coke, and/or coal, based on field examination, while the majority of fill at Site 109 consists of C&D debris (brick, concrete, silt). In general, samples collected from C&D debris, in the absence of breeze, coke, and/or coal, yielded lower PAH concentrations than samples collected from breeze, coke, and/or coal. Therefore, it appears that breeze, coke, and/or coal in fill and ditch surface soils are likely the source of PAHs in soil samples from Site 109.



Hand clearing at drainage ditch soil sample location SB-01-2020.

#### 5.4.1.1.3 PFAS

There were no exceedances of Commercial SCGs for PFAS compounds, indicating PFAS impacts to soils at Site 109 are not a concern.

#### 5.4.1.1.4 Pesticides and PCBs

There were no exceedances of Commercial SCGs for pesticides or PCBs, indicating pesticides and PCB impacts to soils at Site 109 are not a concern.



#### 5.4.1.1.5 Metals

Except for arsenic in one sample (0.0 to 0.16 ft bgs at SB-01-2020 (25.7 mg/Kg v a commercial SCG of 16 mg/Kg), no metals concentrations exceed Commercial SCGs, as shown on **Figure 17**. These results indicate that metals impact to soils at Site 109 are not a concern.

#### 5.4.1.1.6 Cyanide

Cyanide concentrations do not exceed SCGs in any samples, indicating that cyanide impacts to soils at Site 109 are not a concern.

### 5.4.1.2 GROUNDWATER

As discussed in Section 3.1.3.2, each of the three newly installed wells, along with the existing well, were sampled in December 2020 and September 2021. In addition to total (unfiltered) constituents, the September 2021 sampling included collection of samples for dissolved (field filtered) constituents for SVOCs, PCBs, metals, and cyanide. Validated groundwater analytical results for detected compounds are summarized and compared to Class GA SGCs on **Table 5** and **Table 6** and illustrated on **Figure 18**. Complete groundwater analytical results are included in the DUSR in **Appendix H**.

SVOCs, metals, and PCBs were detected in concentrations exceeding SCGs during the December 2020 sampling event. Only metals were detected in concentrations exceeding Class GA SGVs during the September 2021 sampling event. PFAS and pesticides were not detected in concentrations exceeding SGVs during the December 2020 sampling event and were therefore not analyzed for during the September 2021 sampling event.

Exceedances of SCGs are discussed in the following subsections. Based on the groundwater sampling results discussed below, impacts to groundwater are not a significant concern at Site 109.

#### 5.4.1.2.1 Volatile Organic Compounds

There were no exceedances of SCGs for VOCs in Focused RI or historical groundwater samples, indicating that VOC impacts to groundwater at Site 109 are not a concern.

#### 5.4.1.2.2 Semivolatile Organic Compounds

SVOCs were only exceeded at the upgradient well (MW-01-2020) during the 2020 sampling event. SVOCs were not detected above the groundwater SCGs in samples from this well or any other wells during the 2021 sampling event. Groundwater from MW-01-2020 is representative of conditions upgradient of Site 109 or of conditions at the upgradient edge of Site 109 and is not indicative of site-wide impacts to groundwater at Site 109. Historically, chrysene was detected in exceedance of the SCG in one sample from MW-4, which is generally upgradient. Data indicates SVOCs are not migrating through Site 109 in groundwater and Site conditions are not contributing significantly to SVOCs in groundwater, indicating that SVOC impacts to groundwater are not a concern at Site 109.

#### 5.4.1.2.3 PFAS

There were no exceedances of SCGs for PFAS, indicating that PFAS impacts to groundwater at Site 109 are not a concern.

#### 5.4.1.2.4 Pesticides

There were no exceedances of SCGs for pesticides, indicating that pesticide impacts to groundwater at Site 109 are not a concern.



#### 5.4.1.2.5 PCBs

Total PCBs were detected slightly above SCGs (0.091 ug/L versus the SCG of 0.09 ug/L) at monitoring well MW-02-2020 during the 2020 sampling event. PCBs were not detected in samples from any other wells in 2020, were not detected in any samples in 2021, and have historically not been detected in Site 109 groundwater, indicating that PCB impacts to Site 109 groundwater are not a concern

#### 5.4.1.2.6 Metals

Concentrations of at least one metal exceeded SCGs in all wells sampled in 2020 and 2021. Concentrations of six metals exceeded SCGs (iron, magnesium, manganese, sodium, thallium, and antimony) in at least one monitoring well. Metals exceedances and the range of concentrations in unfiltered groundwater samples are summarized in the following table:

| Compound  | Frequency of Exceedances (out of 4 sampled wells) <sup>1</sup> | Class GA SCG (ug/l) | Minimum Concentration (ug/l) | Maximum Concentration (ug/l) | Average Concentration (ug/l) <sup>2</sup> |
|-----------|--|---------------------|------------------------------|------------------------------|---|
| Iron      | 4  | 300                 | 100 U                        | 2200                         | 800                                       |
| Magnesium | 4  | 35000               | 12600                        | 414000                       | 106000                                    |
| Manganese | 3  | 300                 | 4.5                          | 823                          | 300                                       |
| Sodium    | 7  | 20000               | 31900                        | 467000                       | 170000                                    |
| Thallium  | 2  | 0.5                 | 9                            | 9                            | 6   |

Notes:

1. Frequency denotes the number of wells where exceedance occurred during at least one sampling event.
2. For non-detects, half of the detection limit was used for calculating the average.
3. U indicates the analyte was not detected at the provided detection limit.

The presence and concentration of four of the metals (Iron, Manganese, Magnesium, and Sodium) are considered to be representative of naturally occurring background concentrations. Concentrations of these metals in groundwater are generally elevated throughout the Tonawanda, New York area.

Concentrations of thallium and antimony exceeded their SCGs at the upgradient well (MW-01-2020) during the Focused RI. Groundwater from MW-01-2020 is representative of conditions upgradient of Site 109 or of conditions at the upgradient edge of Site 109. The nearby monitoring wells MW-BCP-15A and MW-BCP-16A at the BCP Site were non-detect for these contaminants in 2021 and 2022. In general, the groundwater sampling events completed at the BCP Site have not identified antimony and thallium in concentrations that could be impacting Site 109. Localized thallium and antimony impacts may be due to leaching of coal combustion byproducts, particularly fly ash, as discussed below.

Thallium also exceeded its SCG at downgradient well MW-03-2020 in 2021. Samples from this well were not analyzed for metals during the 2020 sampling event due to insufficient productivity from the well. Other than at the upgradient well, discussed above, this was the only well at Site 109 where the thallium concentration was detected above its SCG. Thallium is commonly found in coal combustion products, particularly fly ash, which was observed within the screened interval during well installation. Leaching of thallium from this material is a potential cause of thallium observed in the groundwater sample. Given the limited distribution of fly ash at Site 109 and the limited detections of thallium in groundwater, there are not significant site-wide sources or associated thallium impacts to groundwater at Site 109 and offsite migration is unlikely. Monitoring well MW-15-2020 was planned for installation at Site 108. This location is downgradient of MW-03-2020. However,

only two feet of fill, unsaturated, was found overlying the clay layer at this location, therefore no well was installed. These results further indicate offsite migration is unlikely.

Metals concentrations in field filtered samples did not show significant decreases in comparison to unfiltered samples. This indicates that elevated metals concentrations detected are not due to suspended solids in samples. Metals exceedances in dissolved (field filtered) groundwater samples are summarized in the following table:

| Compound  | Frequency of Exceedances (out of 4 sampled wells) <sup>1</sup> | Class GA SCG (ug/l) | Minimum Concentration (ug/l) <sup>2</sup> | Maximum Concentration (ug/l) | Average (ug/l) |
|-----------|--|---------------------|---|------------------------------|----------------|
| Antimony  | 1  | 3                   | 10.5                                      | 10.5                         | 30             |
| Iron      | 2  | 300                 | 61.4                                      | 1990                         | 1000           |
| Magnesium | 2  | 35000               | 15800                                     | 514000                       | 180000         |
| Manganese | 2  | 300                 | 10 U                                      | 811                          | 400            |
| Sodium    | 4  | 20000               | 81700                                     | 264000                       | 156000         |
| Thallium  | 1  | 0.5                 | 10 U                                      | 13.1                         | 7              |

Notes:

1. Frequency denotes the number of wells where exceedance occurred during at least one sampling event.
2. Values with a U qualifier are halved for calculating the average.
3. U indicates the analyte was not detected at the provided detection limit.

#### 5.4.1.2.7 Cyanide

Although one historical sample from MW-17-89 contained cyanide that exceeded the SCG, the sample concentrations from this well in 2020 and 2021 were below the cyanide SCG. Given that there is only one historical cyanide exceedance and no samples from the Focused RI resulted in cyanide concentrations exceeding the SCG, cyanide impacts to groundwater at Site 109 are not a concern.

### 5.4.2 Site 110

#### 5.4.2.1 SURFACE AND SUBSURFACE SOIL

Validated surface (0.0 to 0.16 ft bgs and 0.16 to 1.0 ft bgs) and subsurface (greater than 1.0 ft bgs) soil analytical results and exceedances of SCGs from the 2020/2021 Focused RI are shown in **Table 7** and data from historical investigations are included in **Appendix C**. Complete subsurface soil analytical results are included in the DUSR in **Appendix H**. Soil sample results summarized are inclusive of those collected from test pits and monitoring wells.

As shown on **Figures 19 through 24**, Commercial SCGs are exceeded for one or more compound in at least one surface soil sample from all 17 Focused RI and historical sample locations. Exceedances of SCGs in subsurface soil are slightly less frequent than in surface soil, with at least one compound exceeding Commercial SCGs in 14 out of 17 subsurface soil sample locations. Concentrations of VOCs, SVOCs, metals, and cyanide exceed Commercial SCGs as detailed in the following subsections.

##### 5.4.2.1.1 Volatile Organic Compounds

Benzene exceeds the Commercial SCG in one sample (6.0 to 6.5 ft bgs at TP-34-2021), as shown on **Figure 24**. This sample was collected from an interval containing pliable tar/fill mixture. Samples that were collected from

directly beneath tar samples do not have VOC impacts, indicating that VOCs and tar itself are not significantly migrating into the soil matrix. Historically, VOCs have not been detected exceeding SCGs in surface or subsurface soil samples. Given that there is only one isolated exceedance, VOC impacts to soils at Site 110 are not a significant site-wide concern based on commercial SCG exceedances. However, given that groundwater is impacted by VOCs at one well (MW-06-2020), as discussed in Section 5.4.2.2.1, and VOCs are constituents of tar present at Site 110, tar and tar-impacted soils may be a localized source of VOC impacts to groundwater in the vicinity of monitoring well MW-06-2020.

#### 5.4.2.1.2 Semivolatile Organic Compounds

Results indicate SVOC concentrations exceeded the Commercial SCGs in at least one sample from all sampled locations, except TP-51-2022, as shown on **Figures 20 through 22**. These results are consistent with historical data, which show exceedances for SVOCs in surface and subsurface soil samples. Nearly all SVOCs that exceed standards are PAHs. The SVOCs that exceed SCGs most frequently are:

- benzo(a)anthracene
- benzo(a)pyrene
- benzo(b)fluoranthene
- chrysene
- dibenzo(a,h)anthracene
- indeno(1,2,3-cd)pyrene

SVOC exceedances in surface and subsurface soil are summarized in the following table:

| Compound               | Frequency of Exceedances (out of 44 collected samples) | Commercial SCG (mg/kg) | Minimum Concentration (mg/kg) | Maximum Concentration (mg/kg) | Average Concentration (mg/kg) |
|------------------------|--|------------------------|-------------------------------|-------------------------------|-------------------------------|
| 2-Methylphenol         | 1  | 500                    | 0.017                         | 1100                          | 28                            |
| 3&4-Methylphenol       | 1  | 500                    | 0.021                         | 2700                          | 61                            |
| Phenol                 | 1  | 500                    | 0.031                         | 1600                          | 38                            |
| Acenaphthene           | 1  | 500                    | 0.048                         | 750                           | 28                            |
| Acenaphthylene         | 1  | 500                    | 0.047                         | 6400                          | 160                           |
| Anthracene             | 1  | 500                    | 0.031                         | 5500                          | 140                           |
| Benzo(A)Anthracene     | 27   | 5.6                    | 0.04                          | 4700                          | 140                           |
| Benzo(A)Pyrene         | 38   | 1                      | 0.053                         | 4400                          | 140                           |
| Benzo(B)Fluoranthene   | 30   | 5.6                    | 0.059                         | 4400                          | 140                           |
| Benzo(G,H,I)Perylene   | 1  | 500                    | 0.022                         | 1900                          | 72                            |
| Benzo(K)Fluoranthene   | 3  | 56                     | 0.021                         | 1900                          | 57                            |
| Chrysene               | 9  | 56                     | 0.042                         | 4300                          | 130                           |
| Dibenzo(a,h)Anthracene | 34   | 0.56                   | 0.0069                        | 3400                          | 49                            |
| Dibenzofuran           | 1  | 350                    | 0.033                         | 4500                          | 110                           |
| Fluoranthene           | 2  | 500                    | 0.077                         | 13000                         | 370                           |
| Fluorene               | 1  | 500                    | 0.045                         | 7300                          | 180                           |
| Indeno(1,2,3-Cd)Pyrene | 27   | 5.6                    | 0.023                         | 2200                          | 81                            |
| Naphthalene            | 2  | 500                    | 0.12                          | 25000                         | 770                           |

| Compound     | Frequency of Exceedances (out of 44 collected samples) | Commercial SCG (mg/kg) | Minimum Concentration (mg/kg) | Maximum Concentration (mg/kg) | Average Concentration (mg/kg) |
|--------------|--|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Phenanthrene | 3  | 500                    | 0.096                         | 19000                         | 490                           |
| Pyrene       | 2  | 500                    | 0.069                         | 8300                          | 250                           |
| Total PAH    | 10   | 500                    | 1.9                           | 110000                        | 3200                          |

Notes:

1. Frequency denotes the number of wells where exceedance occurred during at least one sampling event.
2. Values with a U qualifier are halved for calculating the average.
3. U indicates the analyte was not detected at the provided detection limit.

Surface soil exceedances for SVOCs are widespread across Site 110, with all 13 Focused RI sample locations showing concentrations exceeding Commercial SCGs in one or both surface soil sample intervals. These results are consistent with historical investigations, which indicate SVOC exceedances of Commercial SCGs at all five sampled locations. Because SVOC concentrations in surface soil exceed SCGs at all sampled locations, SVOCs in surface soil appear to be consistent with the widespread presence of coal and coke (Section 4.2.2) throughout Site 110 and are not associated with any specific area or activity.

Exceedance of SCGs for SVOCs in subsurface soil are slightly less widespread than for surface soil, with at least one subsurface soil sample from 13 out of 17 sample locations yielding SVOC concentrations exceeding Commercial SCGs.

The maximum total PAH concentrations measured at each sample location are shown in **Figure 23**. Total PAH concentrations exceeding 500 mg/kg occur in ten samples from seven locations. Exceedances of the total PAH SCG are scattered and intermittent, with no clear spatial trend. The total PAH SCG was exceeded in the surface interval in six samples and was exceeded in a subsurface interval in four samples. MW-04-2020 was the only location where the total PAH SCG was exceeded in both a surface and subsurface interval.

Approximately half of the soil samples with total PAH concentrations exceeding 500 mg/kg contained tar in the sample interval, as either a continuous layer, globs/chunks, or as coated material. The data strongly supports that there are multiple sources of PAHs present, including tar. The other exceedances of the alternate SCG of 500 parts per million total PAHs is likely due to coal, coke, or other industrial wastes present at the location. Additional discussion of tar material encountered at Site 110 is included in Section 4.2.3.2. The highest PAH concentrations occur in the sample from TP-34-2021, which was collected along the former rail lines and from within a thick, continuous layer of pliable tar/fill mixture.

Of the samples that exceed the 500 mg/kg total PAHs that were not impacted by tar, all contained coal either in the sample interval or elsewhere in the test pit, indicating that residual coal present in these is contributing the elevated PAH concentrations.

While samples from intervals containing tar may result in elevated SVOC concentrations, tar does not appear to significantly impact the quality of adjacent soil. The subsurface sample from MW-06-2020 was collected directly beneath tar-saturated material and the subsurface sample from TP-07-2020 was collected 0.5 ft below tar-saturated material and a known tar seep. Individual SVOC concentrations from these samples do not exceed any SCGs and total PAH concentrations also do not exceed the SCG. This suggests that tar-saturated material, which is the least viscous tar product encountered, does not appear to migrate vertically to impact the quality of underlying soil.

Further discussion of the physical properties of the tar products encountered at Site 110 is included in Section 4.2.3.

#### 5.4.2.1.3 PFAS

There were no exceedances of SCGs for PFAS, indicating that PFAS impacts to soil at Site 110 are not a concern.

#### 5.4.2.1.4 Pesticides and PCBs

There were no exceedances of SCGs for pesticides and PCBs, indicating that pesticide and PCB impacts to soil at Site 110 are not a concern.

#### 5.4.2.1.5 Metals

Only three metals, arsenic, mercury, and barium, exceed Commercial SCGs in Site 110 soil samples from the Focused RI. At least one of these metals exceed SCGs in six samples from four locations, as shown in **Table 7**. There is no spatial pattern of locations with metals concentrations exceeding SCGs. Metals exceedances are likely due to the presence of historic fill throughout the site. Historical soil samples did not identify concentrations of metals that exceeded the SCGs. Metals exceedances in soil are summarized in the following table:

| Compound | Frequency of Exceedances (out of 44 collected samples) <sup>1</sup> | Commercial SCG (mg/kg) | Minimum Concentration (mg/kg) | Maximum Concentration (mg/kg) | Average Concentration (mg/kg) |
|----------|---|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Arsenic  | 2   | 16                     | 2.9                           | 21.9                          | 9.3                           |
| Barium   | 3   | 400                    | 10.9                          | 505                           | 130                           |
| Mercury  | 1   | 2.8                    | 0.015                         | 6.5                           | 0.6                           |

Notes:

1. Frequency denotes the number of wells where exceedance occurred during at least one sampling event.
2. Values with a U qualifier are halved for calculating the average.
3. U indicates the analyte was not detected at the provided detection limit.

#### 5.4.2.1.6 Cyanide

Cyanide only exceeded the Commercial SCG in one sample from one location (3.25 to 4.0 ft bgs at TP-14-2020, estimated concentration 123J mg/Kg v SCG of 27 mg/Kg). This sample was collected from a blue sandy silt and woody debris fill with a strong sulfur-like odor. Fill with woodchips was also observed in TP-51-2022 and TP-52-2022, but samples from these locations did not exceed the Commercial SCG for cyanide. This fill was not observed anywhere else on Sites 109 or 110 and is consistent with purifier waste, which would be expected to contain elevated concentrations of cyanide.

However, because this product was only encountered at three locations, and cyanide concentrations are below SCGs at all other sample locations, cyanide impacts to soil at Site 110 are localized to the specific deposit of this by-product and are not of concern for the remainder of the site. Cyanide concentrations have not been detected exceeding the SCG in historical surface or subsurface soil samples at Site 110.

### 5.4.2.2 GROUNDWATER

As discussed in Section 3.2.2.2, each of the four groundwater monitoring wells installed in October 2020 were sampled in December 2020. All six new Site 110 monitoring wells (including the four installed in October 2020 and the two installed in July 2021) were sampled in September 2021. In addition to total (unfiltered) constituents, the September 2021 sampling included collection of samples for dissolved (field filtered) SVOCs,

PCBs, metals, and cyanide. MW-23-2022 was sampled in January 2023 for total (unfiltered) constituents, and for dissolved (field filtered) SVOCs, PCBs, metals, and cyanide. Validated groundwater analytical results for detected compounds are summarized and compared to Class GA SCGs on **Tables 8, 9 and 10** and shown on **Figure 25**. Historical groundwater sampling results are shown on **Figure 26**.

As discussed in Section 3.2.2.2, MNA parameters were also collected from a subset of Site 110 wells. Results of MNA sampling are summarized in **Table 11** and will be used for remedial alternative evaluation during the FS. Complete groundwater analytical results from the Focused RI are included in the DUSR in **Appendix H**.

VOCs, SVOCs, pesticides, cyanide, and metals were detected in concentrations exceeding SCGs in samples from the December 2020 sampling event. VOCs, SVOCs, cyanide, and metals were also detected in concentrations exceeding SCGs during the September 2021 sampling event; pesticides were not analyzed for during the 2021 event. Metals were detected in concentrations exceeding SCGs in samples from the January 2023 sampling event. Exceedances of SCGs are detailed in the following subsections.

#### 5.4.2.2.1 Volatile Organic Compounds

VOCs were detected in concentrations exceeding SCGs in groundwater samples from one location during the Focused RI. Samples collected from MW-06-2020 exceeded SCGs for seven VOCs in 2020 and nine VOCs in 2021, including BTEX compounds.

VOC exceedances in total groundwater samples are summarized in the following table:

| Compound         | Frequency of Exceedances (out of 12 collected samples) <sup>1</sup> | Class GA SCG (ug/l) | Minimum Concentration (ug/l) <sup>3</sup> | Maximum Concentration (ug/l) | Average Concentration (ug/l) <sup>2</sup> |
|------------------|---|---------------------|---|------------------------------|---|
| Benzene          | 2   | 1                   | 0.5                                       | 430                          | 62  |
| Chloroform       | 1   | 7                   | 1 U                                       | 70                           | 6.3                                       |
| Chloromethane    | 1   | 5                   | 1 U                                       | 250                          | 21  |
| Ethylbenzene     | 2   | 5                   | 1 U                                       | 1700                         | 230                                       |
| Isopropylbenzene | 2   | 5                   | 1 U                                       | 44                           | 6.4                                       |
| m&p-Xylenes      | 2   | 5                   | 2 U                                       | 3000                         | 420                                       |
| o-Xylene         | 2   | 5                   | 1 U                                       | 1100                         | 150                                       |
| Styrene          | 2   | 5                   | 1 U                                       | 260                          | 37  |
| Toluene          | 2   | 5                   | 1 U                                       | 1700                         | 250                                       |

Notes:

1. Frequency denotes the number of wells where exceedance occurred during at least one sampling event.
2. Values with a U qualifier are halved for calculating the average.
3. U indicates the analyte was not detected at the provided detection limit. Results from MW-06-2020 were excluded from maximums and averages because results from MW-06-2020 with U qualifier were one to two orders of magnitude above other results.

Groundwater elevation data indicate that the groundwater gradient is extremely flat across Site 110 but tends to have a slight eastward direction. Monitoring well MW-16-2020 is located approximately 100 feet east (downgradient) of MW-06-2020. The sample collected from this well did not contain VOCs in concentrations exceeding SCGs, indicating that VOC impacts observed at MW-06-2020 are not indicative of a sitewide plume, but rather, are localized impacts, likely related to subsurface tar observed during monitoring well installation, and further evidenced by tar-like odors and sheen observed during purging for groundwater sampling. Historical



data indicate VOC exceedances at MW-3 and its replacement, MW-3R, which are located slightly off-site of Site 110, to the southwest. However, as described in Section 2.3, a 2005 IRM mitigated groundwater impacts through the removal of subsurface tar in this area, (Conestoga-Rovers & Associates 2008), further indicating that VOC impacts to groundwater at Site 110 are limited to localized impacts.

#### 5.4.2.2.2 Semivolatile Organic Compounds

SGCs were exceeded for multiple SVOCs during one or both of sampling events for all monitoring wells except MW-05-2020 and MW-08-2020. SVOC exceedances in total (unfiltered) groundwater samples are summarized in the following table:

| Compound                    | Frequency of Exceedances (out of 12 collected samples) <sup>1</sup> | Class GA SCG (ug/l) | Minimum Concentration (ug/l) <sup>3</sup> | Maximum Concentration (ug/l) | Average Concentration (ug/l) <sup>2</sup> |
|-----------------------------|---|---------------------|---|------------------------------|---|
| ,1'-Biphenyl                | 2   | 5                   | 0.93 U                                    | 67                           | 9.2                                       |
| 2-Methylphenol              | 1   | 1                   | 0.93 U                                    | 5.4                          | 4.4                                       |
| 3&4-Methylphenol            | 1   | 1                   | 0.93 U                                    | 4.7                          | 4.3                                       |
| Acenaphthene                | 2   | 20                  | 0.16                                      | 120                          | 19  |
| Benzo(A)Anthracene          | 4   | 0.002               | 0.15                                      | 0.36                         | 0.19                                      |
| Benzo(A)Pyrene              | 4   | ND                  | 0.12                                      | 0.39                         | 0.18                                      |
| Benzo(B)Fluoranthene        | 4   | 0.002               | 0.14                                      | 0.38                         | 0.18                                      |
| Benzo(K)Fluoranthene        | 3   | 0.002               | 0.089                                     | 0.14                         | 0.13                                      |
| bis-(2-Ethylhexyl)Phthalate | 1   | 5                   | 4.7 U                                     | 6.3                          | 3.6                                       |
| Chrysene                    | 4   | 0.002               | 0.1                                       | 0.34                         | 0.16                                      |
| Fluorene                    | 2   | 50                  | 0.14                                      | 83                           | 12  |
| Indeno(1,2,3-Cd)Pyrene      | 2   | 0.002               | 0.13                                      | 0.25                         | 0.15                                      |
| Naphthalene                 | 2   | 10                  | 0.078                                     | 18000                        | 2300                                      |

Notes:

1. Frequency denotes the number of wells where exceedance occurred during at least one sampling event.
2. Values with a U qualifier are halved for calculating the average.
3. U indicates the analyte was not detected at the provided detection limit. Results from MW-06-2020 were excluded from maximums and averages because results from MW-06-2020 with U qualifier were one to two orders of magnitude above other results.

The highest SVOC concentrations were measured in MW-06-2020. As discussed in Section 5.4.2.2.1, subsurface tar was observed during installation of this monitoring well, and tar-like odors and sheen were observed during purging for groundwater sampling, indicating tar is likely contributing to SVOC concentrations at this location. There were no exceedances of SVOC SCGs during any sampling event at MW-05-2020 and at MW-23-2022, both of which are located to the north and east (downgradient) of the mounded area where pliable tar was frequently noted during test pitting, indicating pliable tar is not contributing significantly to SVOCs in groundwater at these locations. The lack of SVOC impacts at MW-05-2020 and MW-23-22 indicates that SVOC impacts to groundwater resulting from tar are relatively localized and/or these wells are not in significant communication with other areas due to the heterogeneous nature and hydrogeology of the fill. As discussed in Section 4.5, this is a perched fill unit and is likely a series of pocketed saturated areas, some of which are connected while others are isolated.



The only SVOC exceeding SCGs at MW-08-2020, which is located on the adjacent National Grid property, was bis(2-ethylhexyl)phthalate, which is a manufactured chemical found in plastics and is not a site-related constituent. It is a common laboratory contaminant. For example, it was detected in various laboratory method blanks for the Focused RI soil/sediment data. Further, the compound was only detected in concentrations exceeding SCGs in the dissolved sample, indicating that it could be due to lab contamination. The lack of SVOC impacts at MW-08-2020 indicates SVOC groundwater impacts are not migrating significantly eastward off Site 110.

The majority of compounds exceeding SCGs are PAHs. Concentrations of the following PAHs exceeded SCGs in at least one sample from MW-04-2020, MW-07-2020, and MW-16-2020:

- benzo(a)anthracene
- benzo(a)pyrene
- benzo(b)fluoranthene
- benzo(k)fluoranthene
- chrysene

The concentration of indeno(1,2,3-cd)pyrene also exceeds the SCG in samples from MW-04-2020 and MW-23-2022. Benzo(a)anthracene and benzo(b)fluoranthene are the only PAHs with concentrations exceeding SCGs in the sample from MW-23-2022.

As described in Section 3.2.2.2, samples were analyzed for both dissolved and total SVOCs during the 2021 and 2023 field sampling events in order to evaluate the impact of suspended solids, which SVOCs tend to sorb to, on total SVOC concentrations. The above compounds were not detected in field filtered samples from MW-04-2020, MW-07-2020, MW-16-2020, and MW-23-2022 wells, aside from one detection for benzo(b)fluoranthene in the duplicate sample from MW-16-2020, indicating that elevated concentrations in total constituent (unfiltered) samples are likely influenced by the presence of suspended solids with sorbed PAHs.

Samples collected from MW-06-2020 resulted in a unique set of SVOCs exceeding SCGs, which were not observed to exceed the SCGs in any other wells at Site 110. Concentrations of the following compounds were uniquely detected in this well at concentrations exceeding SCGs in at least one sampling event:

- 1,1'-biphenyl
- 2-methylphenol
- 3&4-methylphenol
- acenaphthene
- fluorene
- naphthalene

The source of these PAHs is uncertain but may be due to the presence of subsurface tar within the saturated zone observed during well installation and further evidenced by sheen and tar-like odors during purging for groundwater sampling. MW-06-2020 is the only well where subsurface tar-saturated material was observed in the saturated zone during drilling, and these compounds are all commonly found in tar. However, other Site 110 wells that are located proximal to tar do not have detections of the unique set of SVOCs detected in MW-06-2020. SVOC concentrations did not decrease significantly in filtered samples, indicating that elevated SVOC concentrations in the unfiltered sample are likely not due to the presence of suspended solids with sorbed PAHs.

#### 5.4.2.2.3 Pesticides

The concentration of alpha-BHC in the groundwater sample from MW-06-2020 collected in 2020 exceeded its SCG. Pesticides were not detected in concentrations exceeding SCGs in any other samples at Site 110, therefore, this single pesticide exceedance is considered anomalous, and pesticide impacts to Site 110 groundwater are not a concern.

#### 5.4.2.2.4 Metals

Concentrations of at least one metal exceeded SCGs in all wells sampled in 2020, 2021, and 2023. Concentrations of five metals exceeded SCGs (iron, magnesium, manganese, sodium, and thallium) in at least one monitoring well. Metals exceedances in total (unfiltered) groundwater samples are summarized in the following table:

| Compound  | Frequency of Exceedances (out of 11 collected samples) <sup>1</sup> | Class GA SCG (ug/l) | Minimum Concentration (ug/l) <sup>3</sup> | Maximum Concentration (ug/l) <sup>3</sup> | Average Concentration (ug/l) <sup>2</sup> |
|-----------|---|---------------------|---|---|---|
| Iron      | 11  | 300                 | 1350                                      | 277000                                    | 39000                                     |
| Magnesium | 6   | 35000               | 24000                                     | 185000                                    | 48000                                     |
| Manganese | 11  | 300                 | 1120                                      | 18400                                     | 4600                                      |
| Sodium    | 8   | 20000               | 16300                                     | 151000                                    | 46000                                     |
| Thallium  | 1   | 0.5                 | 10 U                                      | 12.7                                      | 5.6                                       |

Note:

1. Frequency denotes the number of wells where exceedance occurred during at least one sampling event.
2. Values with a U qualifier are halved for calculating the average.
3. U indicates the analyte was not detected at the provided detection limit. Results from MW 06 2020 were excluded from maximums and averages because results from MW-06-2020 with U qualifier were one to two orders of magnitude above other results.

The presence and concentration of four of the metals (iron, manganese, magnesium, and sodium) are considered to be representative of naturally occurring background concentrations. Concentrations of these metals in groundwater are generally elevated throughout the Tonawanda, New York area. These results are consistent with historical data, which show exceedances of iron, manganese, and sodium in filtered and unfiltered samples from two wells located adjacent to Site 110.

Thallium exceeded its SCG at downgradient well MW-08-2020 in 2020 and 2021. This was the only well at Site 110 where the thallium concentration was detected above its SGC, which indicates that there are not significant site-wide thallium impacts to groundwater at Site 110.

Metals concentrations in field filtered samples did not show significant decreases in comparison to unfiltered samples. This indicates that elevated metals concentrations are not due to suspended solids in samples. Metals exceedances in dissolved (field filtered) groundwater samples are summarized in the following table:

| Compound  | Frequency of Exceedances (out of 7 collected samples) <sup>1</sup> | Class GA SCG (ug/l) | Minimum Concentration (ug/l) | Maximum Concentration (ug/l) | Average Concentration (ug/l) <sup>2</sup> |
|-----------|--|---------------------|------------------------------|------------------------------|---|
| Iron      | 6  | 300                 | 1470                         | 240000                       | 44000                                     |
| Magnesium | 5  | 35000               | 23100                        | 172000                       | 52000                                     |
| Manganese | 6  | 300                 | 1040                         | 18700                        | 5500                                      |
| Sodium    | 5  | 20000               | 16000                        | 121000                       | 39000                                     |
| Thallium  | 1  | 0.5                 | 8.2                          | 8.2                          | 5.4                                       |

Note:

1. Frequency denotes the number of wells where exceedance occurred during at least one sampling event.
2. Values with a U qualifier are halved for calculating the average.
3. U indicates the analyte was not detected at the provided detection limit.

#### 5.4.2.2.5 Cyanide

All wells sampled except MW-06-2020 had concentrations exceeding SCGs for cyanide during at least one sampling event. Historical samples from MW-2 and MW-3R-89, located on the BF Site immediately south-west of Site 110, also contained cyanide exceeding SCGs. Cyanide exceedances in total (unfiltered) groundwater samples are summarized in the following table:

| Compound       | Frequency of Exceedances (out of 11 collected samples) <sup>1</sup> | Class GA SCG (ug/l) | Minimum Concentration (ug/l) | Maximum Concentration (ug/l) | Average Concentration (ug/l) <sup>2</sup> |
|----------------|---|---------------------|------------------------------|------------------------------|---|
| Cyanide, Total | 9   | 200                 | 179                          | 5710                         | 1200                                      |

Note:

1. Frequency denotes the number of wells where exceedance occurred during at least one sampling event.
2. Values with a U qualifier are halved for calculating the average.
3. U indicates the analyte was not detected at the provided detection limit.

Cyanide concentrations in nearly all wells decreased slightly in dissolved (field filtered) samples. Cyanide exceedances in field filtered samples are summarized in the following table:

| Compound           | Frequency of Exceedances (out of 7 collected samples) <sup>1</sup> | Class GA SCG (ug/l) | Minimum Concentration (ug/l) | Maximum Concentration (ug/l) | Average Concentration (ug/l) <sup>2</sup> |
|--------------------|--|---------------------|------------------------------|------------------------------|---|
| Cyanide, Dissolved | 5  | 200                 | 181                          | 4310                         | 950                                       |

Note:

1. Frequency denotes the number of wells where exceedance occurred during at least one sampling event.
2. Values with a U qualifier are halved for calculating the average.
3. U indicates the analyte was not detected at the provided detection limit.

The highest cyanide concentration was detected in the sample from MW-05-2020, which is adjacent to the mounded area near the center of Site 110. In TP-51-2022 and TP-52-2022 directly adjacent to MM-05-2020, a layer of red-brown wood chips with a strong chemical odor was encountered. There was a hard layer with minimal blue staining above the wood chips, but no blue staining on the wood chips themselves. The red-brown wood

chips were not observed elsewhere on Sites 109 or 110 and are consistent with purifier residuals which would be expected to contain elevated cyanide concentrations.

The second highest cyanide concentration was in the sample from MW-08-2020, downgradient of the blue stained soils/residuals indicative of purifier waste at TP-14-2020. This was also the location of the only exceedance of Commercial Soil SCGs for cyanide.

### 5.4.2.3 TAR CHARACTERIZATION

Samples of the pliable tar/fill mixture and tar-saturated material were collected from test pit TP-07-2020 and TP-34-2021 and samples of pliable tar/fill mixture were collected from TP-08-2020 and TP-10-2020A. Samples were analyzed for hazardous waste characterization parameters, VOCs, SVOCs, metals, pesticides, herbicides, and PCBs. Due to the sample matrices (i.e., tar), which were not compatible with the laboratory's equipment, TCLP was not run for any analytes on samples from TP-07-2020 and TP-34-2021. TCLP was run for all analytes besides VOCs (SVOCs, metals, pesticides, and herbicides) on samples from TP-08-2020 and TP-10-2020A. For analytes/samples that could not be run for TCLP, total constituent analysis was run instead. Data for analysis of hazardous waste characteristics are presented in **Table 12**.

For samples/analytes which were run for TCLP, results are compared to USEPA's Hazardous Waste Regulatory Levels (40 CFR § 261.24). Concentrations of constituents in TCLP samples do not exceed USEPA's Hazardous Waste Regulatory Levels. However, based on TCLP analysis of tar conducted during other site activities, the pliable tar may be characteristically hazardous for benzene.

The tar samples were also analyzed for reactive cyanide, reactive sulfide, corrosivity, and ignitability. Reactive cyanide was not detected. Reactive sulfide was detected in the sample from TP-34-2021 at a concentration of 3.2 mg/kg. There is no USEPA accepted analytical method for determining reactivity. Generators must use their knowledge of the process generating the waste stream and the waste stream itself and make a determination if the waste is reactive. The pH measurements ranged from 7.72 to 6.96, indicating none of the sampled tar material would be considered hazardous based on corrosivity. Samples did not ignite up to 200 degrees Fahrenheit, indicating that samples would not be considered hazardous based on ignitability.

## 6.0 CONCEPTUAL SITE MODEL

The conceptual site model for Sites 109 and 110 developed below considers sources, nature and extent of impacts, and constituent fate and transport. This conceptual site model is expanded on in Section 7 to consider potential human health exposures.

### 6.1 Site 109

#### 6.1.1 Sources and Transport Mechanisms

Results of the previous investigations and the 2020/2021 Focused RI indicate that the primary sources of impacts to Site 109 are material management and disposal practices. A layer of fill is present across the majority of Site 109, ranging in thickness from 0 feet to 16 feet. The fill typically consists of silt and clay and includes a variety of other materials co-placed with the earthen materials, including C&D debris such as concrete, red brick, yellow fire brick, rock fragments, and wood, and coke manufacturing by-products such as breeze, coke, coal, fly ash, and slag.

Historical spills from the former coal conveyor, which formerly ran along the southern site boundary directly over the drainage ditch and/or erosion and transport of soils impacted with coal and coke from areas upgradient of Site 109 into the on-site drainage ditch may have impacted soil quality within the drainage ditch.

Groundwater impacts at Site 109 are very limited, with most impacts observed in the upgradient well. The data indicates that conditions at Site 109 are not significantly impacting site groundwater.

#### 6.1.2 Nature and Extent of Impacts

Analytical results of the 2020/2021 Focused RI and prior investigations for Site 109 are discussed in detail in Section 5.4.1 and are summarized in the following subsections:

- Surface and subsurface soil
- Groundwater

##### 6.1.2.1 SURFACE AND SUBSURFACE SOIL

Surface soil, and to a lesser extent subsurface soil, impacts are present throughout Site 109. The primary impacts are due to SVOCs (particularly PAHs). The primary PAHs exceeding SCGs are benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Exceedances of SCGs for SVOCs occur primarily within fill from the surface to as deep as 10.6 ft bgs. The highest concentrations of PAHs occur in drainage ditch surface soils, likely due to spills from the former coal conveyor and/or due to erosion and transport of soils impacted with coal and coke from areas upgradient of Site 109 into the on-site drainage ditch.

##### 6.1.2.2 GROUNDWATER

Groundwater impacts at Site 109 are very limited, with most impacts observed in the upgradient well (MW-01-2020). Groundwater samples show exceedances of SCGs for one or more constituents in samples from all wells. Exceedances occur for metals, PCBs, and SVOCs. However, most exceedances are for metals, which are likely primarily due to naturally occurring conditions. Metals exceedances of SCGs for iron, magnesium,

manganese, and sodium are likely primarily due to naturally occurring conditions, while limited exceedances for thallium (one sample each from MW-01-2020 and MW-03-2020) and antimony (one sample from MW-01-2020) may be due to the presence of impacted fill and/or result from upgradient conditions. SVOCs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene exceeded SCGs in the sample from upgradient well MW-01-2020 during the December 2020 sampling event but were not detected exceeding SCGs in the September 2021 sampling event. Similarly, PCBs were detected slightly above SCGs in one well, MW-02-2020, in the first round of sampling, but not in the second round.

## 6.2 Site 110

### 6.2.1 Sources and Transport Mechanisms

Results of the previous investigations and the 2020/2021 Focused RI indicate that the primary sources of impacts to Site 110 are material disposal practices. A layer of fill is present across the entirety of Site 110, ranging in thickness from 3.0 feet to 16.5 feet. The fill typically consists of coke breeze and is often mixed with earthen materials including silt and sand, debris including brick, glass, wood, plastic, and rubber, and coke manufacturing by-products including coke, coal, slag, and fly ash. Pockets of material presumed to be purifier waste have also been observed within fill. The constituents within fill may contribute to impacts to groundwater through leaching and direct contact.

Localized areas also contain subsurface tar in various forms, which may be contributing to localized groundwater impacts where tar exists within the saturated zone. The monitoring well most significantly impacted by PAHs was the only location where groundwater is in direct contact with tar-saturated materials, (MW-06-2020). This is also the only well with VOC impacts, indicating that direct groundwater contact with tar may be the primary mechanism of VOC and SVOC groundwater impacts at this well. There were no exceedances of SVOC SCGs during any sampling event at MW-05-2020, which is located to the north and east (downgradient) of the mounded area where pliable tar was frequently noted during test pitting, additional evidence that tar is not contributing significantly to SVOCs in groundwater, aside from in locations where tar is in direct contact to groundwater, which may produce highly localized impacts due to very limited groundwater flow across Site 110.

Groundwater gradients across Site 110 are very low, and slightly eastward. Groundwater within the fill is perched and is likely a series of pocketed saturated areas, some of which are connected while others are isolated. The lack of SVOC impacts at MW-08-2020 located on the eastern end of Site 110 on the adjacent National Grid property indicates SVOC groundwater impacts are not migrating significantly eastward off Site 110. The detection of cyanide in the sample from monitoring well MW-08-2020 may be a result of the blue residuals, typical of purifier waste, noted in upgradient test pit TP-14-2020.

### 6.2.2 Nature and Extent of Impacts

Analytical results of the 2020/2021 Focused RI, 2022/2023 Focused RI Phase II, and prior investigations for Site 110 are discussed in detail in Section 5.4.2 and are summarized in the following subsections:

- Surface and subsurface soil
- Groundwater

#### 6.2.2.1 SURFACE AND SUBSURFACE SOIL

Surface and subsurface soil impacts are present throughout Site 110. The primary constituents are SVOCs (particularly PAHs). The primary PAHs exceeding SCGs are benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Exceedances of SCGs for SVOCs occur primarily within fill from the surface to as deep as 7 ft bgs. Although there were exceedances of SCGs for two metals in soil, these were significantly less frequent than exceedances for PAHs and were almost always co-located with PAH exceedances. The only exceedance for cyanide can be directly attributed to the blue fill that was sampled, which is consistent with purifier waste. Surface and subsurface tar is present in multiple locations throughout Site 110 but does not appear to significantly impact soil quality in adjacent intervals.

#### 6.2.2.2 GROUNDWATER

Groundwater samples show exceedances of one or more SCGs in samples from all wells. Exceedances of SCGs occur primarily for SVOCs (particularly PAHs), cyanide, and metals. PAHs most commonly exceeding SCGs are benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene. Metals exceedances of SCGs for iron, magnesium, manganese, and sodium are likely primarily due to naturally occurring conditions, while thallium impacts only occur in one sample from one well, MW-08-2020 and may be due to the presence of subsurface fill. Localized VOC impacts (primarily BTEX compounds) were also noted at one monitoring well, MW-06-2020.

### 6.3 Fate and Transport

SVOCs, primarily PAHs, are the most prevalent constituents detected in exceedance of commercial use SCGs in soil at both Sites 109 and 110. VOCs and cyanide were also detected at concentrations exceeding commercial use SCGs at Site 110. Metals exceeded groundwater SCGs at both sites. The following subsections discuss fate and transport for these constituents for both Sites.

#### 6.3.1 SVOCs

In general, PAHs are relatively insoluble in water and solubility decreases as the molecular weight increases. PAHs have a high log octanol-water partition coefficient (Kow) and high organic carbon partition coefficient (Koc). They therefore tend to remain bound to soil particles. As a result, PAHs are not highly mobile. Additionally, PAHs are degraded by microorganisms. The most important factors influencing overall degradation rates are temperature, pH, oxidation-reduction potential, concentration, and the presence of microbial species. PAHs do not tend to biomagnify in food chains because they are rapidly metabolized, especially in fish, where the skin tends to act as a barrier to the migration to body tissues.

At Site 109, SVOCs were only exceeded at the upgradient well (MW-01-2020) during the 2020 sampling event. SVOCs were not detected above the groundwater SCGs in samples from this well or any other wells during the 2021 sampling event, indicating SVOC impacts to groundwater are not a significant concern at Site 109.

The sample from MW-08-2020 on the National Grid portion of Site 110 had an elevated bis-(2-ethylhexyl)phthalate concentration in the dissolved sample, which is likely due to lab contamination. Samples from MW-06-2020 at Site 110 had elevated SVOC concentrations, potentially due to the presence of tar in the saturated interval. Sample concentrations decrease significantly directly downgradient, at MW-16-2020, indicating that significant SVOC concentrations in groundwater are not migrating offsite at Site 110. PAH concentrations in samples from Site 110 monitoring wells were typically lower for SVOCs in all dissolved phase (field-filtered) samples, indicating that PAHs are bound to soil particles and that elevated concentrations in total



constituent (unfiltered) samples are likely influenced by the presence of soil particles with sorbed PAHs within the samples.

### 6.3.2 VOCs

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VOCs were not detected in Site 109 soils and groundwater in concentrations exceeding SCGs, so they are not a constituent of concern at Site 109. VOCs were not found in concentrations that exceed the Commercial Use SCGs for soil, which take into consideration potential exposures due to soil vapor intrusion. The maximum concentration in comparison to its criteria was at MW-03, where trichloroethene was measured at approximately 3% of its Commercial Use SCG, indicating potential concerns regarding exposure via soil vapor intrusion are unlikely.

VOCs were only detected in concentrations in excess of SCGs in groundwater from one well at Site 110: MW-06-2020. At this well, tar was observed within the saturated zone during monitoring well installation and sheen and odor were observed in groundwater purged during sampling. Therefore, tar may be impacting groundwater at this location Downgradient monitoring well, MW-16-2020, does not appear to be impacted by VOCs, indicating that VOC impacts at Site 110 are highly localized and do not appear to be migrating offsite.

VOC impacts in soil and groundwater may locally impact potential on-site receptors via soil vapor intrusion. Considerations for future site development and occupancy related to vapor intrusion at Sites 109 and 110 will be included in the FFSS for those sites.

### 6.3.3 Metals

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At Site 109, concentrations of six metals exceeded SCGs (iron, magnesium, manganese, sodium, thallium, and antimony) in at least one monitoring well. The presence and concentration of four of the metals (iron, manganese, magnesium, and sodium) are considered to be representative of naturally occurring background concentrations. Concentrations of thallium and antimony exceeded their SCGs at the upgradient well (MW-01-2020) during the Focused RI. Groundwater from MW-01-2020 is representative of conditions upgradient of Site 109 or of conditions at the upgradient edge of Site 109. Thallium also exceeded its SCG at Site 109 downgradient well MW-03-2020 in 2021. Other than at the upgradient well, discussed above, this was the only well at Site 109 where the thallium concentration was detected above its SCG. Thallium is commonly found in coal combustion products, particularly fly ash, which was observed within the screened interval during well installation. Leaching of thallium from this material is a potential cause of thallium observed in the groundwater sample. Given the limited distribution of fly ash at Site 109 and the limited detections of thallium in groundwater, there are not significant site-wide sources or associated thallium impacts to groundwater at Site 109 and offsite migration is unlikely.

Other than the four naturally-occurring metals, thallium was the only metal that exceeded its SCG at Site 110. Thallium exceeded its SCG at downgradient well MW-08-2020 in 2020 and 2021. This was the only well at Site 110 where the thallium concentration was detected above its SGC, which indicates that there are not significant site-wide thallium impacts to groundwater at Site 110. MW-08-2020 is the most downgradient well at Site 110. As discussed in Section 4.5, groundwater gradients are relatively low, and the perched groundwater within the fill unit and is likely a series of pocketed saturated areas, some of which are connected while others are isolated. Therefore, significant off-site migration of thallium is unlikely.

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### 6.3.4 Cyanide

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Cyanide was not detected in Site 109 soils and groundwater in concentrations exceeding SCGs, therefore it is not a constituent of concern at Site 109.

Cyanide was detected in all but one soil samples collected from Site 110, however, it was only detected with a concentration in excess of SCGs in one sample (TP-14-2020). Cyanide was detected at concentrations exceeding SCGs in groundwater samples from all but one (MW-06-2020) monitoring well at Site 110. The highest concentrations in groundwater were detected at MW-05-2020 and MW-08-2020, downgradient of presumed purifier waste, which would be expected to contain elevated levels of cyanide. Cyanide can leach from these materials, causing groundwater contamination. Cyanide in the groundwater typically is primarily in the form of iron-cyanide complexes. These complexes are stable under the conditions of the aquifer and are transported as nonreactive solutes. Dilution is the primary natural attenuation mechanism for iron-cyanide complexes. MW-08-2020 is the most downgradient well at Site 110. As discussed in Section 4.5, groundwater gradients are relatively low, and the perched groundwater within the fill unit and is likely a series of pocketed saturated areas, some of which are connected while others are isolated. Therefore, significant off-site migration of cyanide is unlikely.

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### 6.3.5 Tar

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Tar was not encountered on Site 109.

Based on analytical samples and observations during test pit excavations at Site 110, tar does not appear to be significantly migrating vertically or laterally. The only type of tar that appears potentially mobile is in areas characterized as tar saturated, based on the material dripping down the excavation sidewalls at some locations. However, this dripping was due to removal of adjacent soil and is not indicative of the potential mobility under normal conditions. The lack of mobility of tar saturated material is indicated by soil samples taken from beneath tar. The subsurface sample from MW-06-2020 was collected directly beneath tar-saturated material and the subsurface sample from TP-07-2020 was collected 0.5 ft below tar-saturated material and a known tar seep. Individual SVOC concentrations from these samples do not exceed any SCGs and total PAH concentrations also do not exceed the SCG. This suggests that tar-saturated material, which is the least viscous tar product encountered, does not appear to migrate vertically to impact the quality of underlying soil.

Tar and tar-impacted material may locally impact potential on-site receptors via soil vapor intrusion.

## 7.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

According to Appendix 3B of DER-10:

“The overall purpose of the Qualitative Human Health Exposure Assessment (or the exposure assessment) is to evaluate and document how people might be exposed to site-related contaminants, and to identify and characterize the potentially exposed population(s) now and under the reasonably anticipated future use of the site.” (NYSDEC 2010a)

The qualitative human health exposure assessment (QHHEA) must include:

- A description of the constituent source(s) including the location of the release to the environment (any waste disposal area or point of discharge).
- An explanation of the release and transport mechanisms to the exposed population.
- Identification of all potential exposure point(s) where actual or potential human contact may occur.
- Description(s) of the route(s) of exposure (i.e., ingestion, inhalation, dermal absorption).
- A characterization of the receptor populations who may be exposed to constituents at a point of exposure.

An exposure pathway is **complete** when all five elements of an exposure pathway are documented; a **potential** exposure pathway exists when any one or more of the five elements comprising an exposure pathway are unknown. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway has not existed in the past, does not exist in the present, and can reasonably be anticipated to never exist in the future.

Sources and transport mechanisms, nature and extent of impacts, and fate and transport are discussed in Section 6. Potential exposure points/exposure media, potential exposure routes, and potentially impacted populations are discussed in the following subsections. The QHHEA is illustrated on **Figure 27**.

This QHHEA has been developed based on the results of the historical investigations and the 2020/2021 Focused RI. It is consistent with the anticipated future use of Sites 109 and 110, which is commercial. An environmental easement will be placed on the property that, at minimum, will prohibit unpermitted groundwater use and uncontrolled subsurface excavations, and may include other institutional controls to protect commercial and industrial users of the property from potential exposure to environmental impacts related to historical facility operations. A Site Management Plan (SMP) will define the procedures to be followed while redeveloping and maintaining the property. An Excavation Work Plan (EWP) will define the procedures to be followed while excavating on the property for foundations, utilities, and other subgrade construction.

Groundwater ingestion is not considered a potential exposure pathway for any offsite receptors because groundwater is not in use as, or suitable for use as, a potable source in any adjacent offsite areas. Roblin Steel (former Wickwire Plant), which is downgradient of Site 109, has an environmental easement in place prohibiting the use of groundwater as a potable water source. It is anticipated that a similar environmental easement will be established at Site 108, which is also downgradient of Site 109. National Grid property, which is downgradient of Site 110, is vacant and does not contain any water wells, and is under high voltage powerlines which would prevent future site development.

Potential exposure pathways for the four identified potential receptors are discussed in the following table.

- Current site worker (including workers performing work on the portion of Site 110 owned by National Grid)
- Future site worker (including workers performing work on the portion of Site 110 owned by National Grid)

- Future office worker
- Current and future off-site workers

| Environmental Media & Exposure Route  | Human Exposure Assessment  |
|---|--|
| Direct contact with groundwater (and incidental ingestion)                        | <ul style="list-style-type: none"> <li>• Current site workers may come into contact with impacted groundwater while performing intrusive work such as investigation or IRM/remedial activities.</li> <li>• Future site workers may encounter contaminated groundwater during intrusive construction activities for future redevelopment or subsequent construction/maintenance activities.</li> <li>• Current/future off-site utility workers may encounter impacted groundwater during intrusive work in the off-site National Grid utility corridor (downgradient of Site 110). These workers may not be HAZWOPER trained or aware of the constituents in groundwater. Remediation may minimize the risk of exposure. This potential exposure is only relevant to Site 110, as data do not indicate significant off-site migration of contaminants in groundwater at Site 109.</li> <li>• For all of the above potential exposures, proper use of PPE, decontamination methods, and other protective measures would minimize the risk of exposure.</li> </ul>  |
| Inhalation (exposure related to volatilization of contaminants / vapor intrusion) | <ul style="list-style-type: none"> <li>• There were no VOC exceedances in any media in samples from Site 109. Therefore, the following exposures are only applicable to Site 110, where there were limited soil and groundwater VOC exceedances and relatively high levels of VOCs in subsurface tar samples.</li> <li>• Current site workers may encounter impacted vapors while performing work at the site.</li> <li>• Future site workers may encounter impacted vapors while performing redevelopment or other work at the site.</li> <li>• Future office workers may encounter impacted vapors via vapor intrusion into buildings of VOCs originating from subsurface tar and/or impacted soil and/or groundwater. Remediation and/or site management may reduce this risk.</li> <li>• A soil vapor intrusion evaluation will be completed for any new occupied construction planned on the site.</li> <li>• VOC impacts are not observed in downgradient wells, indicating that VOCs are not travelling off-site. Therefore, offsite exposure to vapors from Site 110 groundwater is not a potential exposure pathway for current/future off-site workers.</li> </ul> |
| Inhalation (exposure related to fugitive dust)                                    | <ul style="list-style-type: none"> <li>• Current site workers may encounter fugitive dust while performing work at the site.</li> <li>• Future site workers may encounter fugitive dust while performing redevelopment work at the site.</li> <li>• For both of the above potential exposures, mitigation measures such as spreading water for dust suppression and air monitoring would minimize the risk of exposure.</li> <li>• Future office workers will not be exposed to fugitive dust because the anticipated commercial use of the site will include paving, buildings, and landscaping, which will cover impacted soil and prevent mobilization.</li> </ul>  |

|  |   |
|--|---|
| Direct contact with surface soil (and incidental ingestion)    | <ul style="list-style-type: none"> <li>• Current site workers may come into contact with impacted surface soil while performing work such as investigation or IRM/remedial activities.</li> <li>• Future site workers may encounter impacted surface soil during construction activities for future redevelopment or subsequent construction/maintenance activities. Remediation may minimize the risk of exposure.</li> <li>• For all of the above potential exposures, proper use of PPE, decontamination methods, and other protective measures would minimize the risk of exposure.</li> <li>• Future office workers will not be exposed to impacted surface soil because the anticipated commercial use of the site will include paving, buildings, and landscaping, which will cover impacted soil.</li> </ul>                        |
| Direct contact with subsurface soil (and incidental ingestion) | <ul style="list-style-type: none"> <li>• Current site workers may come into contact with impacted surface soil while performing intrusive work such as investigation or IRM/remedial activities.</li> <li>• Future site workers may encounter impacted surface soil during intrusive construction activities for future redevelopment or subsequent construction/maintenance activities. Remediation may minimize the risk of exposure.</li> <li>• For all of the above potential exposures, proper use of PPE, decontamination methods, and other protective measures would minimize the risk of exposure.</li> <li>• Future office workers will not be exposed to impacted subsurface soil because the anticipated commercial use of the site will include paving, buildings, and landscaping, which will cover impacted soil.</li> </ul> |

## 8.0 PRELIMINARY REMEDIAL ACTION OBJECTIVES

Remedial action objectives (RAOs) will be developed in the FFSs for Sites 109 and 110.

## 9.0 SUMMARY AND CONCLUSIONS

The Focused RI, completed in 2020 and 2021, significantly expanded site information on groundwater and soil. Field observations and analytical results verified the presence of materials and constituents that would be expected in materials resulting from the coking operations associated with the former TCC facility.

### 9.1 Nature and Extent of Impacts

Historical sample results and analytical data compiled as part of the Focused RI were compared to applicable SCGs for soil and groundwater to assess impacts and to develop an understanding of the nature and distribution of environmental impacts at Sites 109 and 110.

#### 9.1.1 Surface and Subsurface Soil

Soil analytical results were compared to commercial use SCGs, which is consistent with anticipated future use. Surface and subsurface soil exceedances of SCGs are present throughout Sites 109 and 110. The primary constituents exceeding SCGs in surface and subsurface soil are PAHs. Exceedances of SCGs occur primarily within fill that is present in varying thicknesses across both sites.

Drainage ditch soils/sediment showed the highest concentrations of SVOCs at Site 109, potentially due to historic spillage from the former elevated coal conveyor that was located over this area and/or due to erosion and transport of soils impacted with coal and coke from areas upgradient of Site 109 into the on-site drainage ditch.

Areas of subsurface tar, primarily viscous or hardened tar, are present at Site 110. At Site 110, SVOC concentrations are often highest in intervals where tar was encountered. Results indicate that coal present within the fill is also contributing to SVOC concentrations in Site 110 soils.

#### 9.1.2 Groundwater

Groundwater occurs as a perched, intermittent surficial aquifer in the fill unit at Sites 109 and 110. Occurrence of groundwater is highly dependent on the nature (permeability) of the fill. A low conductivity glaciolacustrine clay aquitard is present beneath the fill at Sites 109 and 110 that restricts vertical flow of groundwater from fill.

Groundwater impacts at Site 109 are very limited, with most impacts observed in the upgradient well. Groundwater samples show exceedances of SCGs for one or more constituents in samples from all wells at Site 109. However, most exceedances are for metals, which are likely primarily due to naturally occurring conditions. Results indicate that site soils at Site 109 are not significantly impacting Site 109 groundwater.

Groundwater samples exceeded one or more SCG in samples from all wells at Site 110. Exceedances of SCGs occur primarily for SVOCs (particularly PAHs), cyanide, and metals. Localized VOC impacts (primarily BTEX compounds) were also noted at one monitoring well. Metals exceedances of SCGs at Site 110 are likely primarily due to naturally occurring conditions. Localized areas at Site 110 contain subsurface tar in various forms. Laboratory results indicate that tar does not appear to be contributing significantly to groundwater impacts. Groundwater gradients across Site 110 are very low, and slightly eastward. Results indicate that groundwater impacts are not migrating significantly eastward onto the adjacent National Grid property.



Cyanide has been detected in Site 110 groundwater samples both on the RITC property and that portion of the National Grid property. The detection on the National Grid property may be associated with upgradient disposal of purifier wastes noted in three test pits.

## 9.2 Conceptual Site Model

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### 9.2.1 Site 109

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Results of the previous investigations and the 2020/2021 Focused RI indicate that the primary sources of impacts to Site 109 are material handling and disposal practices.

A layer of fill is present across the majority of Site 109, ranging in thickness from 0 feet to 16 feet. The fill typically consists of silt and clay and includes a variety of other materials co-placed with the earthen materials, including C&D debris such as concrete, red brick, yellow fire brick, rock fragments, and wood, and coke manufacturing by-products such as breeze, coke, coal, and slag.

Historical spillage from the coal conveyor, which formerly ran along the southern site boundary adjacent to the drainage ditch and/or erosion and transport of soils impacted with coal and coke from areas upgradient of Site 109 into the on-site drainage ditch may have impacted soil quality within the open channel drainage ditch.

Groundwater impacts at Site 109 are very limited, with most impacts observed in the upgradient well. Therefore, investigation results indicate constituents of fill at Site 109 are not significantly impacting groundwater through leaching or direct contact.

### 9.2.2 Site 110

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Results of the previous investigations and the 2020/2021 Focused RI indicate that the primary sources of impacts to Site 110 are material disposal practices.

A layer of fill is present across the entirety of Site 110, ranging in thickness from 3.0 feet to 16.5 feet. The fill typically consists of coke breeze and is often mixed with earthen materials including silt and sand, debris including brick, glass, wood, plastic, and rubber, and coke manufacturing by-products including coke, coal, slag, and fly ash. The constituents within this fill may contribute to impacts to groundwater through leaching and direct contact.

Localized areas at Site 110 contain subsurface tar in various forms. Laboratory results indicate that tar-impacted materials are not contributing significantly to groundwater impacts, except for in localized areas where tar is in direct contact with groundwater.

Groundwater gradients across Site 110 are very low, and slightly eastward. Results indicate that SVOC groundwater impacts are not migrating significantly eastward onto the adjacent National Grid property.

Cyanide has been detected in Site 110 groundwater samples both on the RITC property and the portion of the Site located on National Grid property. The detection on the National Grid property may be associated with disposal of purifier wastes noted in upgradient test pit TP-14-2020.

## 9.6 Qualitative Human Health Exposure Assessment

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A QHHEA was completed, consistent with NYSDEC guidance (NYSDEC 2010a), to evaluate how people might be exposed to site-related constituents, and to identify and characterize the potentially exposed population(s) now

and under the reasonably anticipated future use of Sites 109 and 110. Potential exposures for current and future site use, which is anticipated to be commercial, are detailed below.

**Current Site Worker** Under the current use scenario, there is a potentially complete pathway for HAZWOPER-trained site workers performing surface or intrusive work, such as site investigation or IRM activities, to come in contact with all identified impacted media. Proper use of PPE, decontamination methods, and other protective measures during on-site work, consistent with currently used health and safety measures, minimizes the risk of exposure to impacted media for current site workers. That portion of Site 110 that lies on National Grid property is assumed to remain industrial for the foreseeable future. The potential for utility worker exposure, who may or may not be HAZWOPER trained or aware of the constituents in soil or groundwater exists on that portion of Site 110.

**Future Site Worker:** It is anticipated that the primary future use of Sites 109 and 110 will be commercial, which will include landscaping, paving and buildings. This would provide at least a partial cover, which would reduce but not eliminate potential exposure by future site workers to impacted surface soil. There is a potentially complete pathway for site workers performing construction activities during future redevelopment, or subsequent construction or maintenance activities, to come in contact with all identified impacted media. Site remediation and/or proper use of PPE, decontamination methods, and other protective measures during these activities would minimize the risk of exposure to impacted media for future site workers.

It is anticipated that the primary future use of that portion of Site 110 on National Grid property will remain industrial.

**Future Office Worker:** The only identified, potentially complete exposure pathway for future office workers is via inhalation, specifically inhalation of fugitive dust and inhalation due to vapor intrusion into buildings of VOCs originating from impacted soil and/or groundwater.

There were no exceedances of groundwater or Commercial Soil SCGs for VOCs at Site 109, therefore, the potential exposure pathway for VOCs is considered incomplete at Site 109.

There was only one VOC exceedance of Commercial SCGs for soil and one localized exceedance of SCGs for groundwater at Site 110. However, relatively high levels of VOCs were detected in the two tar samples characterized. Therefore, the potential exposure pathway for VOCs is considered complete for Site 110.

There is no complete exposure pathway associated with groundwater usage by future office workers. There is a municipal water supply available for Sites 109 and 110 and it is anticipated that institutional controls, such as an environmental easement, will be implemented in the future, preventing use of site groundwater for drinking water purposes.

Given that the areas of the site which future office workers will be interacting will be paved, landscaped, and otherwise developed, there is no complete exposure pathway associated with direct contact or incidental ingestion of surface or subsurface soil.

**Current/Future Off-Site Worker:** Potential exposure pathways for current/future off-site workers only exist for Site 110, as significant groundwater impacts were not observed at downgradient wells at Site 109. Off-site workers at the National Grid property downgradient of Site 110 may encounter groundwater impacted with cyanide while doing intrusive work. Site remediation and/or proper use of PPE, decontamination methods, and other protective measures during these activities would minimize the risk of exposure to impacted groundwater for off-site workers.

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## 9.7 Next Steps

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FFSs are being prepared by Parsons for Honeywell for submittal to and approval by NYSDEC using information developed during the site investigation to develop and evaluate the range of technologies and alternatives appropriate for Sites 109 and 110. Consistent with the February 2020 Order on Consent, alternatives were developed to consider additional actions that may be necessary beyond those identified in the 2008 ROD due to the change in use of the site, which is anticipated to include commercial development.

Based on the results of the FS, NYSDEC will prepare a draft ROD Amendment. The draft ROD Amendment will describe the remedy preferred by NYSDEC and will summarize the basis for the recommendation of the preferred remedy by discussing each alternative and the reasons for choosing or rejecting it. The goal of any cleanup plan is to protect public health and the environment. NYSDEC will present the draft ROD Amendment to the public for its review and comment during a 30-day comment period and at a public meeting. NYSDEC will consider public comments as it selects the remedy to address impacts related to Sites 109 and 110. The selected remedy will be described in the final ROD Amendment, which will explain why the remedy was selected and respond to any public comments.

## 10.0 REFERENCES

- Blasland, Bouck & Lee, Inc. 2002. *Remedial Investigation Report Envirotek II Site I*. Roblin Steel. May.
- Conestoga-Rovers & Associates. 1990. *Final Report Supplementary Site Investigation*. Tonawanda Coke Site. July.
- Conestoga-Rovers & Associates. 1992. *Additional Site Investigation*. Tonawanda Coke Site. November.
- Conestoga-Rovers & Associates. 1997. *Remedial Investigation Summary Report*. Tonawanda Coke Site. May.
- Conestoga-Rovers & Associates. 2008. *Final Supplemental Report Revision 1 and Feasibility Study*. Tonawanda Coke Site. January.
- Dvirka and Bartilucci. 1993. *Remedial Investigation and Feasibility Study, Phase I/Phase II Remedial Investigation Report, Qualitative Health Risk Assessment, and Preliminary Feasibility Study, River Road Site, Town of Tonawanda, Erie County, New York*. September.
- Earth Dimensions, Inc. 2021. *Wetland and Waterbodies Delineation Report for Riverview Innovation & Technology Campus*. April.
- Eckhardt, D.A.V., J.E. Reddy, and K.L. Tamulonis. 2008. *Ground-Water Quality in Western New York, 2006*. U.S. Geological Survey.
- Fluor Daniel GTI, Inc. 1998. *Phase II Environmental Site Assessment Report*. C.R. Huntley Steam Station. August 4.
- Goldberg-Zoino Associates. 1983. *Geotechnical Report for Niagara Mohawk Power Corporation C.R. Huntley Steam Station Wastewater Management Systems Project*. August.
- Inventum Engineering. 2020a. *Stormwater Pollution Prevention Plan, Riverview Innovation & Technology Campus, BCP Site No. C915353*. Brownfield Cleanup Program. May 29.
- Inventum Engineering. 2020b. *Remedial Investigation Work Plan, Riverview Innovation & Technology Campus, BCP Site No. C915353*. Brownfield Cleanup Program. October.
- Inventum Engineering, P.C. 2021a. *Surface Water System Maintenance, IRM Work Plan, Concrete-lined Settling Ponds*. July 2021.
- Inventum Engineering, P.C. 2021b. *Abandoned Tonawanda Coke Pipelines IRM Work Plan*. April 2021.
- Inventum Engineering. 2021c. *Remedial Investigation Report - Draft in progress*.
- La Sala, A.M., Jr. 1968. *Ground-Water Resources of the Erie-Niagara Basin, New York*. State of New York Conservation Department Water Resources Commission.
- Malcolm Pirnie. 1986. *Tonawanda Coke Corporation Phase II Site Investigation*. Tonawanda Coke Site. December.
- NYSDEC. 1998. *Technical and Operational Guidance Series (TOGS) 1.1.1*. Division of Water.
- NYSDEC. 2006. *6 NYCRR Part 375, Environmental Remediation Programs, Subparts 375-1 to 375-4 & 375-6*. December 14.
- NYSDEC. 2010a. *DER-10/Technical Guidance for Site Investigation and Remediation*. May 3.
- NYSDEC. 2010b. *CP-51/Soil Cleanup Guidance*. October 2010.

- NYSDEC. 2017. *State Pollutant Discharge Elimination System (SPDES) Permit*, Issued to Tonawanda Coke Corporation. Expires May 31, 2022, Issued June 1.
- NYSDEC. 2020. *Guidelines for Sampling and Analysis of PFAS*. January.
- NYSDEC. 2021. *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs*. June.
- O'Brien & Gere. 1989. *Remedial Investigation, Cherry Farm Site, Tonawanda, New York*. June.
- Parsons. 2002. *Post Construction Groundwater Monitoring at the Cherry Farm Site (NYSDEC Site No. 9-15-063) River Road Site (NYSDEC Site No. 9-15-031)*. March.
- Parsons. 2003. *Operations, Maintenance, and Monitoring at the Cherry Farm Site (NYSDEC Site No. 9-15-063) River Road Site (NYSDEC Site No. 9-15-031)*. March.
- Parsons. 2004. *Operations, Maintenance, and Monitoring at the Cherry Farm Site (NYSDEC Site No. 9-15-063) River Road Site (NYSDEC Site No. 9-15-031)*. April.
- Parsons. 2017. *Investigation Summary Report Tonawanda Plastics*. October.
- Parsons. 2020. *Final Work Plan, Focused Remedial Investigation and Feasibility Study for Operable Units 1 (Site 110) and 2 (Site 109), Tonawanda Coke Site*. July.
- Parsons. 2021. *Remedial Investigation Work Plan Addendum, Operable Units 1 (Site 110) and 2 (Site 109), Tonawanda Coke Site*. August.
- Parsons. 2022. *Work Plan, Focused Remedial Investigation Phase II, Operable Unit 1 (Site 110), Tonawanda Coke Site*. September.
- Parsons Engineering Science, Inc. 2001. *Post Construction Groundwater Monitoring at the Cherry Farm Site (NYSDEC Site No. 9-15-063) River Road Site (NYSDEC Site No. 9-15-031)*. February.
- Recra Research, Inc. 1983. *New York State Superfund Phase I Summary Report*. Tonawanda Coke Site. November 18.
- Tonawanda Coke Corporation. 2016. *Best Management Practices Plan*. September.
- USEPA. 1985. *Preliminary Evaluation of Chemical Migration to Groundwater and the Niagara River from Selected Waste Disposal Sites*. EPA-905/4-85-001. Prepared by the U.S. Geological Survey in cooperation with the New York State Department of Environmental Conservation for the U.S. Environmental Protection Agency.

## TABLES

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TABLE 1 FOCUSED RI TAR OBSERVATIONS

| Location     | Depth (ft bgs) | Tar Type                          | Details   | Occurrence  |
|--------------|----------------|-----------------------------------|---|---|
| TP-07-2020   | 0-2.5; 3.0     | Coated material                   | Tar-coated wooden poles                           |   |
| TP-07-2020   | 2.5 - 3.5      | Pliable tar/fill mixture          | Mixed with breeze                                 |   |
| TP-07-2020   | 2.5 - 3.5      | Tar saturated                     | Dripping off sidewall                             |   |
| TP-07-2020A  | 0 - 2.0        | Pliable tar/fill mixture          |   | On east end of excavation   |
| TP-07-2020A  | 2.0 - 3.0      | Pliable tar/fill mixture          |   | Most visible on south wall  |
| TP-07-2020C  | 2.6 - 3.4      | Pliable tar/fill mixture          | Mixed with breeze and other fill                  | On north, south, and west sidewalls   |
| TP-08-2020W  | 1.5 - 5.0      | Pliable tar/fill mixture          | Mixed with breeze                                 | Tapers out towards the west beneath the base of adjacent mound  |
| TP-08-2020W  | 5.0 - 8.0      | Globs of pliable tar/fill mixture |   |   |
| TP-08-2020A  | 3              | Pliable tar/fill mixture          |   | Did not excavate beyond tar   |
| TP-08-2020B  | 3              | Pliable tar/fill mixture          |   | Did not excavate beyond tar   |
| TP-08-2020C  | 0.8            | Pliable tar/fill mixture          |   |   |
| TP-09-2020S  | 2              | Globs of pliable tar/fill mixture |   |   |
| TP-09-2020S  | 6.0 - 7.0      | Hardened tar/fill mixture         | Trace hardened tar/fill mixture                   |   |
| TP-09-2020W  | 2.5, 3.75; 5.3 | Pliable tar/fill mixture          | Mixed with breeze                                 | Seams, at 2.5' and 3.75' bgs on north wall and 5.3 ft bgs on south wall                               |
| TP-09-2020W2 | 4              | Pliable tar/fill mixture          | Mixed with breeze                                 |   |
| TP-09-2020E  | 4.3 - 6.5      | Hardened tar/fill mixture         | Mixed with breeze                                 |   |
| TP-10-2020W  | 13.5 - 15.0    | Coated material                   | Breeze, some clay, little coke, coated in tar     |   |
| TP-10-2020E  | 13.5           | Glob of pliable tar/fill mixture  | One glob, 2" in size                              |   |
| TP-10-2020N  | 2.5 - 3.8      | Pliable tar/fill mixture          | Mixed with breeze and coke, plastic wadded up     | Pulled from eastern sidewall, 1.5 x 1' pocket   |
| TP-10-2020A  | 0.5 - 2.5      | Pliable tar/fill mixture          | Nearly solid, mixed with breeze, fly ash, nodules | 2 x 2' pocket fell out of wall  |
| TP-10-2020A  | 13.5 - 15.5    | Pliable tar/fill mixture          | Highly viscous, mixed mostly with breeze          |   |
| TP-11-2020E  | 2.0 - 3.0      | Pliable tar/fill mixture          |   |   |
| TP-11-2020N  | 3.4            | Pliable tar/fill mixture          |   |   |
| TP-11-2020W  | 1.0 - 1.5      | Pliable tar/fill mixture          | Highly viscous, mixed with breeze and concrete    | 0.5 x 2' pocket   |
| TP-11-2020S  | 2              | Pliable tar/fill mixture          |   | Predominantly on south end, small pocket on north end, gets deeper moving south                       |
| TP-12-2020S  | 0 - 4.5        | Pliable tar/fill mixture          |   | Trace discrete, ~1" diameter chunks   |
| TP-12-2020W  | 0 - 5.5        | Pliable tar/fill mixture          |   | One small, discrete chunk observed in soil stockpile; Not possible to determine exact depth of origin |
| TP-12-2020E  | 0.0 - 4.0      | Pliable tar/fill mixture          |   | One discrete chunk  |
| TP-13-2020S  | 3.0 - 5.0      | Hardened tar/fill mixture         | Hardened tar with brick                           | Observed in interval with strong tar-like odor and heavy sheen on water                               |
| TP-15-2020S  | 2.5            | Hardened tar/fill mixture         |   | Trace discrete chunks   |
| TP-33-2020B  | 2.0 - 3.0      | Hardened tar/fill mixture         | Mixed with breeze, nodules, and wood              | Forms iron stained ledge on west and south walls  |
| TP-33-2020D  | 4.5 - 5.0      | Hardened tar/fill mixture         | Mixed with breeze and nodules                     |   |
| TP-33-2020D  | 4.5 - 5.0      | Tar saturated material            |   |   |

TABLE 1 FOCUSED RI TAR OBSERVATIONS

| Location   | Depth (ft bgs)       | Tar Type                 | Details   | Occurrence  |
|------------|----------------------|--------------------------|---|---|
| TP-34-2021 | 1.5 - 7.5            | Tar saturated            | Tar saturated towards the top, grades to pliable tar/fill mixture   | Continuous layer  |
| TP-34-2021 | 1.5 - 7.5            | Pliable tar/fill mixture | Mixed with breeze and nodules; Very nodule rich 6.5 - 7.5 ft bgs; Some clay mixed in towards bottom of interval | Continuous layer  |
| TP-35-2021 | 0.0 - 3.0            | Pliable tar/fill mixture | Mixed with breeze and nodules   | Discrete chunks; Tar also observed on ground surface prior to digging |
| TP-35-2021 | 0.0 - 3.0            | Coated material          | C&D debris coated in pliable tar/fill mixture   |   |
| TP-35-2021 | 3.25 - 5.0           | Pliable tar/fill mixture | Mixed with breeze and nodules   | Discrete chunks   |
| TP-35-2021 | 3.0 - 3.25           | Tar saturated            |   |   |
| TP-35-2021 | 5.0 - 6.5; 7.0 - 7.7 | Pliable tar/fill mixture | Tar-rich matrix mixed with breeze, nodules, coke, and gravel  |   |
| MW-06-2020 | 4.5 - 5.5            | Pliable tar/fill mixture | Mixed with crushed brick and breeze   |   |
| MW-06-2020 | 6.0 - 6.5            | Tar saturated            |   |   |
| TP-51-2022 | 4.5 - 5.0            | Pliable tar/fill mixture | 8"x6"x2" chunk  | One discrete chunk  |

TABLE 2 FOCUSED RI MEASURED GROUNDWATER ELEVATIONS

| Location ID | Measuring Point<br>Elevation (ft<br>NAVD88) <sup>1</sup> | Water Elevation (ft NAVD88) |              |                |              |
|-------------|--|-----------------------------|--------------|----------------|--------------|
|             |  | December 2020               | January 2021 | September 2021 | January 2023 |
| Site 109    |  |                             |              |                |              |
| MW-01-2020  | 603.30   | 599.54                      | 598.05       | 598.36         | NA           |
| MW-02-2020  | 590.31   | 581.28                      | 582.37       | 581.47         | NA           |
| MW-03-2020  | 589.63   | 572.91                      | 571.52       | 575.25         | NA           |
| MW-17-89    | 578.79   | 575.86                      | 575.59       | 575.43         | NA           |
| Site 110    |  |                             |              |                |              |
| MW-04-2020  | 611.35   | 607.09                      | 606.85       | 606.17         | 607.92       |
| MW-05-2020  | 610.07   | 605.77                      | 606.01       | 603.89         | 606.72       |
| MW-06-2020  | 609.47   | 606.01                      | 605.89       | 604.48         | 606.54       |
| MW-07-2020  | 610.67   | 606.85                      | 605.54       | 605.54         | 607.47       |
| MW-08-2020  | 608.01   | NA                          | NA           | 603.52         | 604.58       |
| MW-16-2020  | 609.24   | NA                          | NA           | 604.42         | 606.03       |
| MW-23-2022  | 610.05   | NA                          | NA           | NA             | 607.00       |

Notes:

NA: Not Applicable

1. Measuring point is the top of the PVC riser for each well

TABLE 3 FOCUSED RI TYPICAL COAL, COKE AND TAR ANALYTICAL RESULTS

|                      |             |                                |       | Field Sample ID<br>Sampled   | Coal - 10152021<br>10/15/2021<br>Coal | Coke - 10152021<br>10/15/2021<br>Coke |
|----------------------|-------------|--------------------------------|-------|--|---------------------------------------|---------------------------------------|
|                      |             |                                |       | Location   | Coal Charging Building                | Coke Pile West of Battery             |
| Analytical<br>Method | CAS_RN      | Chemical Name                  | Unit  | Soil Cleanup<br>Objective (SCO) for<br>Commercial Use <sup>(4)</sup> |                                       |                                       |
|                      | TSO         | Total Solids                   | %     |  | 88.4                                  | 98.6                                  |
|                      |             | Metals                         |       |  |                                       |                                       |
| SW6010               | 7429-90-5   | Aluminum                       | mg/kg |  | 5500                                  | 686 M                                 |
| SW6010               | 7440-38-2   | Arsenic                        | mg/kg | 16   | 6.89                                  | 1.21                                  |
| SW6010               | 7440-39-3   | Barium                         | mg/kg | 400  | 75.8                                  | 12.8                                  |
| SW6010               | 7440-41-7   | Beryllium                      | mg/kg | 590  | 0.441                                 | 0.245 U                               |
| SW6010               | 7440-43-9   | Cadmium                        | mg/kg | 9.3  | 0.354                                 | 0.245 U                               |
| SW6010               | 7440-70-2   | Calcium                        | mg/kg |  | 21800                                 | 258 DM                                |
| SW6010               | 7440-47-3   | Chromium, Total <sup>(2)</sup> | mg/kg | 400  | 9.15                                  | 1.35                                  |
| SW6010               | 7440-48-4   | Cobalt                         | mg/kg |  | 4.77                                  | 2.45 U                                |
| SW6010               | 7440-50-8   | Copper                         | mg/kg | 270  | 21.3                                  | 7.63 D                                |
| SW6010               | 7439-89-6   | Iron                           | mg/kg |  | 9150                                  | 1770                                  |
| SW6010               | 7439-92-1   | Lead                           | mg/kg | 1000   | 38.0                                  | 1.63                                  |
| SW6010               | 7439-95-4   | Magnesium                      | mg/kg |  | 7330                                  | 88.6 J                                |
| SW6010               | 7439-96-5   | Manganese                      | mg/kg | 10000  | 311                                   | 14.0 D                                |
| SW6010               | 7440-02-0   | Nickel                         | mg/kg | 310  | 9.69                                  | 1.48 J                                |
| SW6010               | 7440-09-7   | Potassium                      | mg/kg |  | 1100                                  | 129                                   |
| SW6010               | 7782-49-2   | Selenium                       | mg/kg | 1500   | 0.917 J                               | 0.980 U                               |
| SW6010               | 7440-23-5   | Sodium                         | mg/kg |  | 158                                   | 62.4 J                                |
| SW6010               | 7440-62-2   | Vanadium                       | mg/kg |  | 11.9                                  | 1.42                                  |
| SW6010               | 7440-66-6   | Zinc                           | mg/kg | 10000  | 74.9                                  | 5.51                                  |
| SW7471               | 7439-97-6   | Mercury                        | mg/kg | 2.8  | 2.21                                  | 0.00548                               |
|                      |             | Volatiles                      |       |  |                                       |                                       |
| SW8260C              | 71-43-2     | Benzene                        | mg/kg | 44   | 0.0782                                | 0.00658 U                             |
| SW8260C              | 100-41-4    | Ethylbenzene                   | mg/kg | 390  | 0.0609                                | 0.00658 U                             |
| SW8260C              | 100-42-5    | Styrene                        | mg/kg |  | 0.106                                 | 0.0164 U                              |
| SW8260C              | 108-88-3    | Toluene                        | mg/kg | 500  | 0.181                                 | 0.00658 U                             |
| SW8260C              | 179601-23-1 | m,p-Xylene                     | mg/kg | 500  | 0.336                                 | 0.00658 U                             |
| SW8260C              | 95-47-6     | O-Xylene (1,2-Dimethylbenzene) | mg/kg | 500  | 0.308                                 | 0.00658 U                             |
| SW8260C              | 1330-20-7   | Total Xylenes                  | mg/kg | 500  | 0.644                                 | 0.00658 U                             |
|                      |             | Semivolatiles                  |       |  |                                       |                                       |
| SW8270D              |             | 1,1-Biphenyl                   | mg/kg |  | 20 J                                  | 0.286 U                               |
| SW8270D              | 91-57-6     | 2-Methylnaphthalene            | mg/kg |  | 73.5                                  | 0.165 J                               |
| SW8270D              | 86-74-8     | Carbazole                      | mg/kg |  | 70.9                                  | 0.286 U                               |
|                      |             | PAHs                           |       |  |                                       |                                       |
| SW8270D              | 83-32-9     | Acenaphthene                   | mg/kg | 500  | 39.6                                  | 0.286 U                               |
| SW8270D              | 208-96-8    | Acenaphthylene                 | mg/kg | 500  | 90.2                                  | 0.286 U                               |
| SW8270D              | 120-12-7    | Anthracene                     | mg/kg | 500  | 154                                   | 0.286 U                               |
| SW8270D              | 56-55-3     | Benzo(A)Anthracene             | mg/kg | 5.6  | 208                                   | 0.286 U                               |
| SW8270D              | 50-32-8     | Benzo(A)Pyrene                 | mg/kg | 1  | 147                                   | 0.286 U                               |
| SW8270D              | 205-99-2    | Benzo(B)Fluoranthene           | mg/kg | 5.6  | 134                                   | 0.286 U                               |
| SW8270D              | 191-24-2    | Benzo(G,H,I)Perylene           | mg/kg | 500  | 76.1                                  | 0.286 U                               |
| SW8270D              | 207-08-9    | Benzo(K)Fluoranthene           | mg/kg | 56   | 134                                   | 0.286 U                               |
| SW8270D              | 218-01-9    | Chrysene                       | mg/kg | 56   | 184                                   | 0.286 U                               |
| SW8270D              | 53-70-3     | Dibenz(A,H)Anthracene          | mg/kg | 0.56   | 24                                    | 0.286 U                               |
| SW8270D              | 132-64-9    | Dibenzofuran                   | mg/kg | 350  | 91.4                                  | 0.286 U                               |
| SW8270D              | 206-44-0    | Fluoranthene                   | mg/kg | 500  | 539                                   | 0.347                                 |
| SW8270D              | 86-73-7     | Fluorene                       | mg/kg | 500  | 140                                   | 0.286 U                               |
| SW8270D              | 193-39-5    | Indeno(1,2,3-C,D)Pyrene        | mg/kg | 5.6  | 79.4                                  | 0.286 U                               |
| SW8270D              | 91-20-3     | Naphthalene                    | mg/kg | 500  | 213                                   | 1.29                                  |
| SW8270D              | 85-01-8     | Phenanthrene                   | mg/kg | 500  | 611                                   | 0.432                                 |
| SW8270D              | 129-00-0    | Pyrene                         | mg/kg | 500  | 382                                   | 0.260 J                               |
|                      |             | Total PAHs <sup>(3)</sup>      | mg/kg | 500  | 3247                                  | 6.05                                  |
|                      |             | Total PAHs <sup>(3)</sup>      | mg/kg | 500  | 3200                                  | 6.00                                  |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(3) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

D: Sample, laboratory Control Sample, or Matric Spike Duplicate results above Relative Percent Difference limit.

J: Result estimated between the quantitation limit and half the quantitation limit

**TABLE 3 FOCUSED RI TYPICAL COAL, COKE AND TAR ANALYTICAL RESULTS**

|                      |        |               |      | Field Sample ID<br>Sampled   | Coal - 10152021<br>10/15/2021<br>Coal | Coke - 10152021<br>10/15/2021<br>Coke |
|----------------------|--------|---------------|------|--|---------------------------------------|---------------------------------------|
|                      |        |               |      | Location   | Coal Charging Building                | Coke Pile West of Battery             |
| Analytical<br>Method | CAS_RN | Chemical Name | Unit | Soil Cleanup<br>Objective (SCO) for<br>Commercial Use <sup>(4)</sup> |                                       |                                       |

M: Matrix spike recoveries outside QC limits. Matrix bias indicated.

ND: Analyzed for but not detected at or above the quantitation limit

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs

TABLE 4 FOCUSED RI SITE 109 SOIL ANALYTICAL SUMMARY

| Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>SDG<br>Lab Sample ID<br>Sample Type<br>Matrix |            |   |       |  | MW-01-2020<br>MW-01-2020-0.0-0.16-10132020<br>0<br>0.16<br>10/13/2020<br>R2009622<br>R2009622-001<br>REG<br>SOIL | MW-01-2020<br>MW-01-2020-0.16-1.0-10132020<br>0.16<br>1<br>10/13/2020<br>R2009622<br>R2009622-002<br>REG<br>SOIL | MW-01-2020<br>MW-01-2020-3.0-4.0-10132020<br>3<br>4<br>10/13/2020<br>R2009622<br>R2009622-005<br>REG<br>SOIL | MW-02-2020<br>MW-02-2020-0.0-0.16-10142020<br>0<br>0.16<br>10/14/2020<br>R2009622<br>R2009622-009<br>REG<br>SOIL | MW-02-2020<br>MW-02-2020-0.16-1.0-10142020<br>0.16<br>1<br>10/14/2020<br>R2009622<br>R2009622-010<br>REG<br>SOIL | MW-02-2020<br>MW-02-2020-5.0-6.0-10142020<br>5<br>6<br>10/14/2020<br>R2009622<br>R2009622-011<br>REG<br>SOIL | MW-03-2020<br>MW-03-2020-0.0-0.16-10142020<br>0<br>0.16<br>10/14/2020<br>R2009712<br>R2009712-007<br>REG<br>SOIL | MW-03-2020<br>MW-03-2020-0.16-1.0-10142020<br>0.16<br>1<br>10/14/2020<br>R2009712<br>R2009712-008<br>REG<br>SOIL |
|--|------------|---|-------|--|--|--|--|--|--|--|--|--|
| Analytical Method  | CAS_RN     | Chemical Name   | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(4)</sup> |  |  |  |  |  |  |  |  |
| E160.3   | SOLID      | Solids  | %     |  | 85.2   | 83.7   | 82.1   | 78.6   | 84.9   | 89.8   | 76.7   | 84.3   |
| E160.3   | SOLIDS     | Total Solids  | %     |  |  |  |  |  |  |  |  |  |
|  |            | PFAS  |       |  |  |  |  |  |  |  |  |  |
| E537M  | 2991-50-6  | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg |  | 0.0011 U   | 0.0012 U   | 0.0012 U   | 0.0013 U   | 0.0011 U   | 0.001 U  | 0.0012 U   | 0.0011 U   |
| E537M  | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg |  | 0.00023 J  | 0.0012 U   | 0.0012 U   | 0.0013 U   | 0.0011 U   | 0.001 U  | 0.0012 U   | 0.0011 U   |
| E537M  | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg |  | 0.0011 U   | 0.0012 U   | 0.0012 U   | 0.0013 U   | 0.0011 U   | 0.001 U  | 0.0012 U   | 0.0011 U   |
| E537M  | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   | 0.00037 J  | 0.00071 J  | 0.0012 U   | 0.00027 J  | 0.00031 J  | 0.001 U  | 0.0012 U   | 0.0011 U   |
| E537M  | 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   | 0.0011 U   | 0.0012 U   | 0.0012 U   | 0.0013 U   | 0.0011 U   | 0.001 U  | 0.0012 U   | 0.0011 U   |
| E537M  | 2058-94-8  | Perfluoroundecanoic Acid (Pfunda)                         | mg/kg |  | 0.0011 U   | 0.0012 U   | 0.0012 U   | 0.0013 U   | 0.0011 U   | 0.001 U  | 0.0012 U   | 0.0011 U   |
|  |            | Metals and Cyanide  |       |  |  |  |  |  |  |  |  |  |
| SW6010   | 7429-90-5  | Aluminum  | mg/kg |  | 1870   | 2420   | 12600  | 15500  | 4970   | 12600  | 18100  | 18000  |
| SW6010   | 7440-38-2  | Arsenic   | mg/kg | 16   | 2.8  | 2.3  | 11.6   | 5.3  | 2.3  | 7.8  | 5.6  | 5.4  |
| SW6010   | 7440-39-3  | Barium  | mg/kg | 400  | 43.7   | 42.1   | 101  | 104  | 53.8   | 79.9   | 98.5   | 124  |
| SW6010   | 7440-41-7  | Beryllium   | mg/kg | 590  | 0.446  | 0.454  | 0.781  | 0.742  | 0.328 J  | 0.646  | 0.821  | 0.821  |
| SW6010   | 7440-43-9  | Cadmium   | mg/kg | 9.3  | 0.223 J  | 0.299 J  | 0.885  | 0.448 J  | 0.159 J  | 0.367 J  | 0.507 J  | 0.673  |
| SW6010   | 7440-70-2  | Calcium   | mg/kg |  | 26200  | 44400  | 4500   | 16700  | 14500  | 3690   | 9070   | 36600  |
| SW6010   | 7440-47-3  | Chromium <sup>(3)</sup>                                   | mg/kg | 400  | 9.6  | 10.6   | 18.2   | 20.3   | 8.1  | 17.7   | 23.7   | 24.9   |
| SW6010   | 7440-48-4  | Cobalt  | mg/kg |  | 2.5 J  | 2.6 J  | 8.9  | 16.6   | 2.2 J  | 11.5   | 12.2   | 10.6   |
| SW6010   | 7440-50-8  | Copper  | mg/kg | 270  | 17.4   | 17.6   | 18.8   | 19.4   | 9.7  | 15.6   | 33.3   | 88.7   |
| SW6010   | 7439-89-6  | Iron  | mg/kg |  | 7620   | 7240   | 24900  | 26200  | 9470   | 24200  | 29400  | 29100  |
| SW6010   | 7439-92-1  | Lead  | mg/kg | 1000   | 17.5   | 25.1   | 38.1   | 30.4   | 14   | 28.3   | 29.7   | 42.8   |
| SW6010   | 7439-95-4  | Magnesium   | mg/kg |  | 4800   | 9990   | 2970   | 7660   | 2570   | 3340   | 5300   | 10100  |
| SW6010   | 7439-96-5  | Manganese   | mg/kg | 10000  | 171  | 232  | 380  | 994  | 863  | 448  | 617  | 596  |
| SW6010   | 7440-02-0  | Nickel  | mg/kg | 310  | 7.5  | 7.2  | 22.8   | 19.2   | 4.9  | 19.1   | 21.1   | 21.7   |
| SW6010   | 7440-09-7  | Potassium   | mg/kg |  | 292  | 384  | 1230   | 2330   | 632  | 1250   | 2770   | 2730   |
| SW6010   | 7782-49-2  | Selenium  | mg/kg | 1500   | 1.2 U  | 1.2 U  | 11.5 U   | 1.2 U  | 1.1 U  | 1.1 J  | 0.93 J   | 1.1 U  |
| SW6010   | 7440-22-4  | Silver  | mg/kg | 1500   | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  | 1.1 U  | 1.1 U  | 1.2 U  | 1.1 U  |
| SW6010   | 7440-23-5  | Sodium  | mg/kg |  | 113 J  | 131  | 111 J  | 82 J   | 81.7 J   | 92.7 J   | 154  | 155  |
| SW6010   | 7440-28-0  | Thallium  | mg/kg |  | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  | 1.1 U  | 1.1 U  | 1.2 U  | 1.1 U  |
| SW6010   | 7440-62-2  | Vanadium  | mg/kg |  | 8.4  | 9.1  | 27.2   | 31.5   | 15.2   | 27.4   | 36.3   | 35.6   |
| SW6010   | 7440-66-6  | Zinc  | mg/kg | 10000  | 102  | 126  | 721  | 90.4   | 20.7   | 88.8   | 128  | 182  |
| SW7471   | 7439-97-6  | Mercury   | mg/kg | 2.8  | 0.045  | 0.056  | 0.106  | 0.109  | 0.073  | 0.042  | 0.068  | 0.133  |
| SW9012   | 57-12-5    | Cyanide, Total  | mg/kg | 27   | 0.37   | 0.45   | 3.34   | 0.44   | 1.37   | 1.08   | 0.3 U  | 0.23 J   |
|  |            | Pesticides  |       |  |  |  |  |  |  |  |  |  |
| SW8081   | 72-55-9    | 4,4'-DDE  | mg/kg | 62   | 0.01 U   | 0.01 U   | 0.01 U   | 0.011 U  | 0.01 U   | 0.0095 U   | 0.0059 J   | 0.011  |
| SW8081   | 50-29-3    | 4,4'-DDT  | mg/kg | 47   | 0.01 U   | 0.01 U   | 0.01 U   | 0.011 U  | 0.01 U   | 0.0095 U   | 0.011 U  | 0.01 U   |
| SW8081   | 1031-07-8  | Endosulfan Sulfate <sup>(4)</sup>                         | mg/kg | 200  | 0.01 U   | 0.01 U   | 0.01 U   | 0.011 U  | 0.01 U   | 0.0095 U   | 0.011 U  | 0.01 U   |
| SW8081   | 7421-93-4  | Endrin Aldehyde   | mg/kg |  | 0.01 U   | 0.01 U   | 0.01 U   | 0.011 U  | 0.01 U   | 0.0095 U   | 0.011 U  | 0.01 U   |
| SW8081   | 53494-70-5 | Endrin Ketone   | mg/kg |  | 0.01 U   | 0.01 U   | 0.01 U   | 0.011 U  | 0.01 U   | 0.0095 U   | 0.011 U  | 0.01 U   |
| SW8081   | 5566-34-7  | Gamma-Chlordane   | mg/kg |  | 0.01 U   | 0.01 U   | 0.01 U   | 0.011 U  | 0.01 U   | 0.0095 U   | 0.011 U  | 0.01 U   |
| SW8081   | 76-44-8    | Heptachlor  | mg/kg | 15   | 0.01 U   | 0.01 U   | 0.01 U   | 0.011 U  | 0.01 U   | 0.0095 U   | 0.011 U  | 0.01 U   |
| SW8081   | 72-43-5    | Methoxychlor  | mg/kg |  | 0.01 U   | 0.01 U   | 0.01 U   | 0.011 U  | 0.01 U   | 0.0095 U   | 0.0057 J   | 0.01 U   |
|  |            | PCBs  |       |  |  |  |  |  |  |  |  |  |
| SW8082   | 12672-29-6 | Aroclor-1248  | mg/kg | 1  | 0.04 U   | 0.04 U   | 0.041 U  | 0.043 U  | 0.04 U   | 0.037 U  | 0.043 U  | 0.039 U  |
| SW8082   | 11097-69-1 | Aroclor-1254  | mg/kg | 1  | 0.04 U   | 0.04 U   | 0.041 U  | 0.043 U  | 0.04 U   | 0.037 U  | 0.043 U  | 0.039 U  |
| SW8082   | 11096-82-5 | Aroclor-1260  | mg/kg | 1  | 0.04 U   | 0.04 U   | 0.041 U  | 0.043 U  | 0.04 U   | 0.037 U  | 0.043 U  | 0.039 U  |
| SW8082   | 11100-14-4 | Aroclor-1268  | mg/kg | 1  | 0.039 J  | 0.04 U   | 0.041 U  | 0.043 U  | 0.04 U   | 0.037 U  | 0.043 U  | 0.039 U  |
|  |            | Total PCBs <sup>(5)</sup>                                 | mg/kg | 1  | 0.039  | 0.04 U   | 0.041 U  | 0.043 U  | 0.04 U   | 0.037 U  | 0.043 U  | 0.039 U  |
|  |            | Volatiles   |       |  |  |  |  |  |  |  |  |  |
| SW8260   | 78-93-3    | 2-Butanone  | mg/kg | 500  | 0.0089 U   | 0.0072 U   | 0.0068 U   | 0.7 U  | 0.0059 U   | 0.0073 U   | 0.007 U  | 0.0055 U   |
| SW8260   | 591-78-6   | 2-Hexanone  | mg/kg |  | 0.0089 U   | 0.0072 U   | 0.0068 U   | 0.0095 U   | 0.0059 U   | 0.0073 U   | 0.007 U  | 0.0055 U   |
| SW8260   | 108-10-1   | 4-Methyl-2-Pentanone                                      | mg/kg |  | 0.0089 U   | 0.0072 U   | 0.0068 U   | 0.0095 U   | 0.0059 U   | 0.0073 U   | 0.007 U  | 0.0055 U   |
| SW8260   | 67-64-1    | Acetone   | mg/kg | 500  | 0.0089 U   | 0.0072 U   | 0.0068 U   | 0.7 U  | 0.0059 U   | 0.0073 U   | 0.007 J  | 0.0055 U   |
| SW8260   | 71-43-2    | Benzene   | mg/kg | 44   | 0.0089 U   | 0.0072 U   | 0.0068 U   | 0.0095 U   | 0.0059 U   | 0.0073 U   | 0.007 U  | 0.0055 U   |
| SW8260   | 75-15-0    | Carbon Disulfide  | mg/kg |  | 0.0089 U   | 0.0072 U   | 0.0068 U   | 0.0095 U   | 0.0059 U   | 0.0073 U   | 0.007 U  | 0.0055 U   |
| SW8260   | 67-66-3    | Chloroform  | mg/kg | 350  | 0.0089 U   | 0.0072 U   | 0.0068 U   | 0.0095 U   | 0.0059 U   | 0.0073 U   | 0.007 U  | 0.0055 U   |
| SW8260   | 156-59-2   | cis-1,2-Dichloroethene                                    | mg/kg | 500  | 0.0089 U   | 0.0072 U   | 0.0068 U   | 0.0095 U   | 0.0059 U   | 0.0073 U   | 0.007 U  | 0.0055 U   |
| SW8260   | 110-82-7   | Cyclohexane   | mg/kg |  | 0.0089 U   | 0.0004 J   | 0.0068 U   | 0.0095 U   | 0.0059 U   | 0.0073 U   | 0.007 U  | 0.0055 U   |
| SW8260   | 100-41-4   | Ethylbenzene  | mg/kg | 390  | 0.0089 U   | 0.0072 U   | 0.0068 U   | 0.0095 U   | 0.0059 U   | 0.0073 U   | 0.007 U  | 0.0055 U   |
| SW8260   | 98-82-8    | Isopropylbenzene  | mg/kg |  | 0.0089 U   | 0.0072 U   | 0.0068 U   | 0.0095 U   | 0.0059 U   | 0.0073 U   | 0.007 U  | 0.0055 U   |



TABLE 4 FOCUSED RI SITE 109 SOIL ANALYTICAL SUMMARY

|                   |             |                             |       |  | Location ID      | MW-01-2020                   | MW-01-2020                   | MW-01-2020                  | MW-02-2020                   | MW-02-2020                   | MW-02-2020                  | MW-02-2020                   | MW-03-2020                   | MW-03-2020 |
|-------------------|-------------|-----------------------------|-------|--|------------------|------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|------------|
|                   |             |                             |       |  | Field Sample ID  | MW-01-2020-0.0-0.16-10132020 | MW-01-2020-0.16-1.0-10132020 | MW-01-2020-3.0-4.0-10132020 | MW-02-2020-0.0-0.16-10142020 | MW-02-2020-0.16-1.0-10142020 | MW-02-2020-5.0-6.0-10142020 | MW-03-2020-0.0-0.16-10142020 | MW-03-2020-0.16-1.0-10142020 |            |
|                   |             |                             |       |  | Start Depth (ft) | 0                            | 0.16                         | 0.16                        | 0                            | 0.16                         | 5                           | 0                            | 0.16                         |            |
|                   |             |                             |       |  | End Depth (ft)   | 0.16                         | 1                            | 4                           | 0.16                         | 1                            | 6                           | 0.16                         | 1                            |            |
|                   |             |                             |       |  | Sampled          | 10/13/2020                   | 10/13/2020                   | 10/13/2020                  | 10/14/2020                   | 10/14/2020                   | 10/14/2020                  | 10/14/2020                   | 10/14/2020                   |            |
|                   |             |                             |       |  | SDG              | R2009622                     | R2009622                     | R2009622                    | R2009622                     | R2009622                     | R2009622                    | R2009712                     | R2009712                     |            |
|                   |             |                             |       |  | Lab Sample ID    | R2009622-001                 | R2009622-002                 | R2009622-005                | R2009622-009                 | R2009622-010                 | R2009622-011                | R2009712-007                 | R2009712-008                 |            |
|                   |             |                             |       |  | Sample Type      | REG                          | REG                          | REG                         | REG                          | REG                          | REG                         | REG                          | REG                          |            |
|                   |             |                             |       |  | Matrix           | SOIL                         | SOIL                         | SOIL                        | SOIL                         | SOIL                         | SOIL                        | SOIL                         | SOIL                         |            |
|                   |             |                             |       | Soil Cleanup Objective (SCO) for Commercial Use <sup>(4)</sup> |                  |                              |                              |                             |                              |                              |                             |                              |                              |            |
| Analytical Method | CAS_RN      | Chemical Name               | Unit  |  |                  |                              |                              |                             |                              |                              |                             |                              |                              |            |
| SW8260            | XYLENES1314 | m&p-Xylenes                 | mg/kg | 500  | 0.018            | U                            | 0.014                        | U                           | 0.019                        | U                            | 0.012                       | U                            | 0.014                        | U          |
| SW8260            | 79-20-9     | Methyl Acetate              | mg/kg |  | 0.0089           | U                            | 0.0072                       | U                           | 0.0048                       | J                            | 0.0059                      | U                            | 0.007                        | U          |
| SW8260            | 108-87-2    | Methylcyclohexane           | mg/kg |  | 0.0089           | U                            | 0.00049                      | J                           | 0.0068                       | U                            | 0.0095                      | U                            | 0.007                        | U          |
| SW8260            | 95-47-6     | o-Xylene                    | mg/kg | 500  | 0.0089           | U                            | 0.0072                       | U                           | 0.0068                       | U                            | 0.0095                      | U                            | 0.007                        | U          |
| SW8260            | 100-42-5    | Styrene                     | mg/kg |  | 0.0089           | U                            | 0.0072                       | U                           | 0.0068                       | U                            | 0.0095                      | U                            | 0.007                        | U          |
| SW8260            | 108-88-3    | Toluene                     | mg/kg | 500  | 0.0089           | U                            | 0.0072                       | U                           | 0.0068                       | U                            | 0.0095                      | U                            | 0.007                        | U          |
| SW8260            | 1330-20-7   | Total Xylenes               | mg/kg | 500  | 0.018            | U                            | 0.014                        | U                           | 0.019                        | U                            | 0.012                       | U                            | 0.014                        | U          |
| SW8260            | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg | 500  | 0.0089           | U                            | 0.0072                       | U                           | 0.0068                       | U                            | 0.0095                      | U                            | 0.007                        | U          |
| SW8260            | 79-01-6     | Trichloroethene             | mg/kg | 200  | 0.0089           | U                            | 0.0072                       | U                           | 0.0068                       | U                            | 0.0095                      | U                            | 0.007                        | U          |
|                   |             | Semivolatiles               |       |  |                  |                              |                              |                             |                              |                              |                             |                              |                              |            |
| SW8270            | 92-52-4     | 1,1'-Biphenyl               | mg/kg |  | 0.27             |                              | 0.22                         |                             | 0.015                        | J                            | 0.022                       | J                            | 0.037                        | U          |
| SW8270            | 105-67-9    | 2,4-Dimethylphenol          | mg/kg |  | 0.2              | U                            | 0.2                          | U                           | 0.041                        | U                            | 0.039                       | U                            | 0.042                        | U          |
| SW8270            | 91-57-6     | 2-Methylnaphthalene         | mg/kg |  | 2.1              |                              | 1.4                          |                             | 0.088                        |                              | 0.12                        |                              | 0.072                        |            |
| SW8270            | 95-48-7     | 2-Methylphenol              | mg/kg | 500  | 0.2              | U                            | 0.2                          | U                           | 0.041                        | U                            | 0.039                       | U                            | 0.037                        | U          |
| SW8270            | 34METPH     | 3&4-Methylphenol            | mg/kg | 500  | 0.071            | J                            | 0.055                        | J                           | 0.011                        | J                            | 0.011                       | J                            | 0.037                        | U          |
| SW8270            | 100-52-7    | Benzaldehyde                | mg/kg |  | 0.2              | U                            | 0.2                          | U                           | 0.041                        | U                            | 0.039                       | U                            | 0.037                        | U          |
| SW8270            | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg |  | 3.6              | U                            | 3.6                          | U                           | 0.75                         | U                            | 0.7                         | U                            | 0.67                         | U          |
| SW8270            | 86-74-8     | Carbazole                   | mg/kg |  | 1.8              |                              | 0.89                         |                             | 0.74                         |                              | 0.075                       |                              | 0.14                         |            |
| SW8270            | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg |  | 3                | U                            | 3                            | U                           | 0.62                         | U                            | 0.59                        | U                            | 0.56                         | U          |
| SW8270            | 108-95-2    | Phenol                      | mg/kg | 500  | 0.2              | U                            | 0.2                          | U                           | 0.041                        | U                            | 0.039                       | U                            | 0.037                        | U          |
|                   |             | PAHs                        |       |  |                  |                              |                              |                             |                              |                              |                             |                              |                              |            |
| SW8270            | 83-32-9     | Acenaphthene                | mg/kg | 500  | 1.3              |                              | 0.65                         |                             | 0.75                         |                              | 0.09                        |                              | 0.021                        |            |
| SW8270            | 208-96-8    | Acenaphthylene              | mg/kg | 500  | 0.55             |                              | 0.74                         |                             | 0.4                          |                              | 0.11                        |                              | 0.17                         |            |
| SW8270            | 120-12-7    | Anthracene                  | mg/kg | 500  | 2.7              |                              | 1.8                          |                             | 1.2                          |                              | 0.14                        |                              | 0.35                         |            |
| SW8270            | 56-55-3     | Benzo(A)Anthracene          | mg/kg | 5.6  | 11               |                              | 6.2                          |                             | 5.1                          |                              | 0.74                        |                              | 1.3                          |            |
| SW8270            | 50-32-8     | Benzo(A)Pyrene              | mg/kg | 1  | 18               |                              | 10                           |                             | 9.3                          |                              | 1.5                         |                              | 2.3                          |            |
| SW8270            | 205-99-2    | Benzo(B)Fluoranthene        | mg/kg | 5.6  | 20               |                              | 12                           |                             | 9.4                          |                              | 1.6                         |                              | 2.3                          |            |
| SW8270            | 191-24-2    | Benzo(G,H,I)perylene        | mg/kg | 500  | 15               |                              | 8.8                          |                             | 7.6                          |                              | 1.2                         |                              | 1.8                          |            |
| SW8270            | 207-08-9    | Benzo(K)Fluoranthene        | mg/kg | 56   | 6.6              |                              | 3.8                          |                             | 3.5                          |                              | 0.46                        |                              | 0.62                         |            |
| SW8270            | 218-01-9    | Chrysene                    | mg/kg | 56   | 13               |                              | 7.5                          |                             | 5.9                          |                              | 0.89                        |                              | 1.4                          |            |
| SW8270            | 53-70-3     | Dibenzo(a,h)Anthracene      | mg/kg | 0.56   | 2                |                              | 1.4                          |                             | 1.3                          |                              | 0.23                        |                              | 0.31                         |            |
| SW8270            | 132-64-9    | Dibenzofuran                | mg/kg | 350  | 1.1              |                              | 0.81                         |                             | 0.54                         |                              | 0.05                        |                              | 0.1                          |            |
| SW8270            | 206-44-0    | Fluoranthene                | mg/kg | 500  | 19               |                              | 10                           |                             | 8.5                          |                              | 1.3                         |                              | 2.2                          |            |
| SW8270            | 86-73-7     | Fluorene                    | mg/kg | 500  | 0.97             |                              | 0.54                         |                             | 0.43                         |                              | 0.042                       |                              | 0.11                         |            |
| SW8270            | 193-39-5    | Indeno(1,2,3-Cd)Pyrene      | mg/kg | 5.6  | 15               |                              | 8.9                          |                             | 7.5                          |                              | 1.2                         |                              | 1.8                          |            |
| SW8270            | 91-20-3     | Naphthalene                 | mg/kg | 500  | 2.3              |                              | 1.8                          |                             | 1.1                          |                              | 0.27                        |                              | 0.41                         |            |
| SW8270            | 85-01-8     | Phenanthrene                | mg/kg | 500  | 12               |                              | 6.2                          |                             | 4.9                          |                              | 0.53                        |                              | 1.1                          |            |
| SW8270            | 129-00-0    | Pyrene                      | mg/kg | 500  | 19               |                              | 10                           |                             | 8.5                          |                              | 1.3                         |                              | 2.2                          |            |
|                   |             | Total PAHs <sup>(5)</sup>   | mg/kg | 500  | 160              |                              | 91                           |                             | 76                           |                              | 12                          |                              | 19                           |            |

Notes:  
(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.  
(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.  
(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.  
(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.  
(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.  
Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs

TABLE 4 FOCUSED RI SITE 109 SOIL ANALYTICAL SUMMARY

|                   |            |   |       |  | Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>SDG<br>Lab Sample ID<br>Sample Type<br>Matrix | MW-03-2020<br>MW-03-2020-8.0-10.0-10142020<br>8<br>10<br>10/14/2020<br>R2009712<br>R2009712-009<br>REG<br>SOIL | SB-01-2020<br>SB-01-2020-0.0-0.16-10132020<br>0<br>0.16<br>10/13/2020<br>R2009622<br>R2009622-003<br>REG<br>SOIL | SB-01-2020<br>SB-01-2020-0.16-1.0-10132020<br>0.16<br>1<br>10/13/2020<br>R2009622<br>R2009622-004<br>REG<br>SOIL | SB-01-2020<br>SB-01-2020-3.0-4.0-10132020<br>3<br>4<br>10/13/2020<br>R2009622<br>R2009622-006<br>REG<br>SOIL | SB-02-2020<br>SB-02-2020-0.0-0.16-12032020<br>0<br>0.16<br>1<br>12/3/2020<br>R2011582<br>R2011582-001<br>REG<br>SOIL | SB-02-2020<br>SB-02-2020-0.16-1.0-12032020<br>0.16<br>1<br>12/3/2020<br>R2011582<br>R2011582-002<br>REG<br>SOIL | SB-02-2020<br>SB-02-2020-2.3-12042020<br>2<br>3<br>12/4/2020<br>R2011582<br>R2011582-003<br>REG<br>SOIL | SB-03-2020<br>SB-03-2020-0.0-0.16-10142020<br>0<br>0.16<br>10/14/2020<br>R2009712<br>R2009712-001<br>REG<br>SOIL |
|-------------------|------------|---|-------|--|--|--|--|--|--|--|---|---|--|
| Analytical Method | CAS_RN     | Chemical Name   | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(4)</sup> |  |  |  |  |  |  |   |   |  |
| E160.3            | SOLID      | Solids  | %     |  | 90   | 67   | 73.7   | 86.8   |  |  |   |   |  |
| E160.3            | SOLIDS     | Total Solids  | %     |  |  |  |  |  |  | 75.1   | 80.8  | 85.6  |  |
|                   |            | PFAS  |       |  |  |  |  |  |  |  |   |   |  |
| E537M             | 2991-50-6  | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg |  | 0.0011 U   |  |  |  |  |  |   |   |  |
| E537M             | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg |  | 0.0011 U   |  |  |  |  |  |   |   |  |
| E537M             | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg |  | 0.0011 U   |  |  |  |  |  |   |   |  |
| E537M             | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   | 0.0011 U   |  |  |  |  |  |   |   |  |
| E537M             | 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   | 0.0011 U   |  |  |  |  |  |   |   |  |
| E537M             | 2058-94-8  | Perfluoroundecanoic Acid (Pfunda)                         | mg/kg |  | 0.0011 U   |  |  |  |  |  |   |   |  |
|                   |            | Metals and Cyanide  |       |  |  |  |  |  |  |  |   |   |  |
| SW6010            | 7429-90-5  | Aluminum  | mg/kg |  | 14700  | 4750   | 6910   | 17400  | 11300  |  | 14600   | 13300   | 12600  |
| SW6010            | 7440-38-2  | Arsenic   | mg/kg | 16   | 3.1  | 25.7   | 10   | 2.9  | 10.7   |  | 5.2   | 4.1   | 10.2   |
| SW6010            | 7440-39-3  | Barium  | mg/kg | 400  | 132  | 95   | 113  | 85   | 106  |  | 134   | 107   | 82.6   |
| SW6010            | 7440-41-7  | Beryllium   | mg/kg | 590  | 1.8  | 0.962  | 1.3  | 0.783  | 1  |  | 0.705   | 0.639   | 0.732  |
| SW6010            | 7440-43-9  | Cadmium   | mg/kg | 9.3  | 0.278 J  | 0.502 J  | 0.665 J  | 0.161 J  | 2.8  |  | 0.359 J   | 0.364 J   | 0.744  |
| SW6010            | 7440-70-2  | Calcium   | mg/kg |  | 174000   | 3120   | 3200   | 10300  | 22700  |  | 59600   | 60600   | 4540   |
| SW6010            | 7440-47-3  | Chromium <sup>(3)</sup>                                   | mg/kg | 400  | 12.3   | 14.5   | 17.5   | 23.5   | 26.1   |  | 20.5  | 20.3  | 19.1   |
| SW6010            | 7440-48-4  | Cobalt  | mg/kg |  | 2.9 J  | 9.3  | 13.8   | 9  | 24.6   |  | 10.1  | 9.8   | 9.3  |
| SW6010            | 7440-50-8  | Copper  | mg/kg | 270  | 42.1   | 34.1   | 38.2   | 19.5   | 46.5   |  | 18.9  | 18.4  | 19.6   |
| SW6010            | 7439-89-6  | Iron  | mg/kg |  | 12900  | 14300  | 20100  | 26600  | 42900  |  | 27600   | 27500   | 24500  |
| SW6010            | 7439-92-1  | Lead  | mg/kg | 1000   | 17.2   | 58   | 77.4   | 10.6   | 94.2   |  | 14.1  | 8.6   | 58.2   |
| SW6010            | 7439-95-4  | Magnesium   | mg/kg |  | 24200  | 2430   | 2450   | 10100  | 8790   |  | 14800   | 15300   | 3070   |
| SW6010            | 7439-96-5  | Manganese   | mg/kg | 10000  | 1430   | 211  | 244  | 300  | 1000   |  | 637   | 529   | 826  |
| SW6010            | 7440-02-0  | Nickel  | mg/kg | 310  | 8.6  | 24.5   | 26.7   | 24.8   | 49.3   |  | 23.1  | 23.9  | 23.1   |
| SW6010            | 7440-09-7  | Potassium   | mg/kg |  | 1240   | 1120   | 1290   | 2390   | 1650   |  | 3550  | 2820  | 1420   |
| SW6010            | 7782-49-2  | Selenium  | mg/kg | 1500   | 1.1 U  | 2.3  | 13.6 U   | 1.2 U  | 1.2 U  |  | 1.2 U   | 1.1 U   | 8.9 J  |
| SW6010            | 7440-22-4  | Silver  | mg/kg | 1500   | 1.1 U  | 1.4 U  | 1.4 U  | 1.2 U  | 1.2 U  |  | 1.2 U   | 1.1 U   | 0.094 J  |
| SW6010            | 7440-23-5  | Sodium  | mg/kg |  | 626  | 144 U  | 73.1 J   | 330  | 142  |  | 291   | 209   | 80 J   |
| SW6010            | 7440-28-0  | Thallium  | mg/kg |  | 0.722 J  | 1.4 U  | 1.4 U  | 1.2 U  | 12.1 U   |  | 1.2 U   | 1.1 U   | 1.2 U  |
| SW6010            | 7440-62-2  | Vanadium  | mg/kg |  | 13.5   | 18.6   | 22   | 29.1   | 31.3   |  | 30.8  | 28.1  | 30.4   |
| SW6010            | 7440-66-6  | Zinc  | mg/kg | 10000  | 83.1   | 172  | 225  | 77   | 405  |  | 71.8  | 67.8  | 137  |
| SW7471            | 7439-97-6  | Mercury   | mg/kg | 2.8  | 0.087  | 0.081  | 0.104  | 0.018 J  | 0.278  |  | 0.078   | 0.038 U   | 0.104  |
| SW9012            | 57-12-5    | Cyanide, Total  | mg/kg | 27   | 0.77   | 0.85   | 0.95   | 0.24 U   | 0.87   |  | 0.23 J  | 0.25 U  | 0.45   |
|                   |            | Pesticides  |       |  |  |  |  |  |  |  |   |   |  |
| SW8081            | 72-55-9    | 4,4'-DDE  | mg/kg | 62   | 0.0095 U   | 0.013 U  | 0.011 U  | 0.002 U  | 0.022 U  |  | 0.021 U   | 0.002 U   | 0.011 U  |
| SW8081            | 50-29-3    | 4,4'-DDT  | mg/kg | 47   | 0.0095 U   | 0.018  | 0.011 U  | 0.002 U  | 0.022 U  |  | 0.021 U   | 0.002 U   | 0.011 U  |
| SW8081            | 1031-07-8  | Endosulfan Sulfate <sup>(4)</sup>                         | mg/kg | 200  | 0.0095 U   | 0.013 U  | 0.011 U  | 0.002 U  | 0.042 J  |  | 0.093   | 0.002 U   | 0.011 U  |
| SW8081            | 7421-93-4  | Endrin Aldehyde   | mg/kg |  | 0.0095 U   | 0.023  | 0.011 U  | 0.002 U  | 0.022 U  |  | 0.021 U   | 0.0012 J  | 0.011 U  |
| SW8081            | 53494-70-5 | Endrin Ketone   | mg/kg |  | 0.0095 U   | 0.013 U  | 0.011 U  | 0.002 U  | 0.023  |  | 0.022 J   | 0.002 U   | 0.011 U  |
| SW8081            | 5566-34-7  | Gamma-Chlordane   | mg/kg |  | 0.0095 U   | 0.013 U  | 0.011 U  | 0.002 U  | 0.021 J  |  | 0.026   | 0.002 U   | 0.011 U  |
| SW8081            | 76-44-8    | Heptachlor  | mg/kg | 15   | 0.0095 U   | 0.013 U  | 0.011 U  | 0.002 U  | 0.022 U  |  | 0.021 U   | 0.0018 J  | 0.011 U  |
| SW8081            | 72-43-5    | Methoxychlor  | mg/kg |  | 0.0095 U   | 0.013 U  | 0.011 U  | 0.002 U  | 0.022 U  |  | 0.021 U   | 0.0014 J  | 0.011 U  |
|                   |            | PCBs  |       |  |  |  |  |  |  |  |   |   |  |
| SW8082            | 12672-29-6 | Aroclor-1248  | mg/kg | 1  | 0.081  | 0.051 U  | 0.045 U  | 0.039 U  | 0.043 U  |  | 0.042 U   | 0.026 J   | 0.043 U  |
| SW8082            | 11097-69-1 | Aroclor-1254  | mg/kg | 1  | 0.037 U  | 0.051 U  | 0.045 U  | 0.039 U  | 0.043 U  |  | 0.042 U   | 0.039 U   | 0.043 U  |
| SW8082            | 11096-82-5 | Aroclor-1260  | mg/kg | 1  | 0.024 J  | 0.032 J  | 0.045 U  | 0.039 U  | 0.043 U  |  | 0.042 U   | 0.039 U   | 0.043 U  |
| SW8082            | 11100-14-4 | Aroclor-1268  | mg/kg | 1  | 0.037 U  | 0.051 U  | 0.045 U  | 0.039 U  | 0.043 U  |  | 0.042 U   | 0.039 U   | 0.043 U  |
|                   |            | Total PCBs <sup>(5)</sup>                                 | mg/kg | 1  | 0.105  | 0.032  | 0.045 U  | 0.039 U  | 0.043 U  |  | 0.042 U   | 0.026   | 0.043 U  |
|                   |            | Volatiles   |       |  |  |  |  |  |  |  |   |   |  |
| SW8260            | 78-93-3    | 2-Butanone  | mg/kg | 500  | 0.14 J   | 0.01 U   | 0.0072 J   | 0.0047 U   | 0.0061 U   |  | 0.0032 J  | 0.0032 J  | 0.0081 U   |
| SW8260            | 591-78-6   | 2-Hexanone  | mg/kg |  | 0.024 U  | 0.01 UJ  | 0.0015 J   | 0.0047 U   | 0.0061 U   |  | 0.0058 U  | 0.006 U   | 0.0081 U   |
| SW8260            | 108-10-1   | 4-Methyl-2-Pentanone                                      | mg/kg |  | 0.24 U   | 0.01 U   | 0.00071 J  | 0.0047 U   | 0.0061 U   |  | 0.0058 U  | 0.006 U   | 0.0081 U   |
| SW8260            | 67-64-1    | Acetone   | mg/kg | 500  | 0.24 U   | 0.01 U   | 0.058  | 0.0044 J   | ND   |  | 0.02  | 0.026   | 0.021  |
| SW8260            | 71-43-2    | Benzene   | mg/kg | 44   | 0.014 J  | 0.01 U   | 0.0098 U   | 0.0047 U   | 0.00077 J  |  | 0.0015 J  | 0.0011 J  | 0.0081 U   |
| SW8260            | 75-15-0    | Carbon Disulfide  | mg/kg |  | 0.24 U   | 0.01 U   | 0.0098 U   | 0.0047 U   | 0.0061 UJ  |  | 0.00053 J   | 0.006 UJ  | 0.0081 U   |
| SW8260            | 67-66-3    | Chloroform  | mg/kg | 350  | 0.24 U   | 0.00061 J  | 0.001 J  | 0.0047 U   | 0.0061 U   |  | 0.0058 U  | 0.006 U   | 0.0081 U   |
| SW8260            | 156-59-2   | cis-1,2-Dichloroethene                                    | mg/kg | 500  | 4.7  | 0.01 U   | 0.0098 U   | 0.0047 U   | 0.0061 U   |  | 0.0058 U  | 0.006 U   | 0.00081 J  |
| SW8260            | 110-82-7   | Cyclohexane   | mg/kg |  | 0.015 J  | 0.00063 J  | 0.0019 J   | 0.0047 U   | 0.0061 UJ  |  | 0.0018 J  | 0.021 J   | 0.0081 U   |
| SW8260            | 100-41-4   | Ethylbenzene  | mg/kg | 390  | 0.035 J  | 0.01 UJ  | 0.0098 UJ  | 0.0047 U   | 0.0008 J   |  | 0.00034 J   | 0.00057 J   | 0.0081 U   |
| SW8260            | 98-82-8    | Isopropylbenzene  | mg/kg |  | 0.24 U   | 0.01 UJ  | 0.0098 UJ  | 0.0047 U   | 0.0061 U   |  | 0.00028 J   | 0.00036 J   | 0.0081 U   |

TABLE 4 FOCUSED RI SITE 109 SOIL ANALYTICAL SUMMARY

| Location ID       |             |                             |       |  | MW-03-2020                   | SB-01-2020                   | SB-01-2020                   | SB-01-2020                  | SB-01-2020                   | SB-02-2020                   | SB-02-2020                   | SB-02-2020              | SB-02-2020                   | SB-03-2020 |         |        |         |       |         |    |
|-------------------|-------------|-----------------------------|-------|--|------------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|-------------------------|------------------------------|------------|---------|--------|---------|-------|---------|----|
| Field Sample ID   |             |                             |       |  | MW-03-2020-8.0-10.0-10142020 | SB-01-2020-0.0-0.16-10132020 | SB-01-2020-0.16-1.0-10132020 | SB-01-2020-3.0-4.0-10132020 | SB-02-2020-0.0-0.16-12032020 | SB-02-2020-0.16-1.0-12032020 | SB-02-2020-0.16-1.0-12032020 | SB-02-2020-2.3-12042020 | SB-03-2020-0.0-0.16-10142020 |            |         |        |         |       |         |    |
| Start Depth (ft)  |             |                             |       |  | 8                            | 0                            | 0.16                         | 0.16                        | 0                            | 0.16                         | 0.16                         | 2                       | 0                            |            |         |        |         |       |         |    |
| End Depth (ft)    |             |                             |       |  | 10                           | 0.16                         | 1                            | 4                           | 0.16                         | 1                            | 3                            | 0.16                    |                              |            |         |        |         |       |         |    |
| Sampled           |             |                             |       |  | 10/14/2020                   | 10/13/2020                   | 10/13/2020                   | 10/13/2020                  | 12/3/2020                    | 12/3/2020                    | 12/4/2020                    | 10/14/2020              |                              |            |         |        |         |       |         |    |
| SDG               |             |                             |       |  | R2009712                     | R2009622                     | R2009622                     | R2009622                    | R2011582                     | R2011582                     | R2011582                     | R2009712                |                              |            |         |        |         |       |         |    |
| Lab Sample ID     |             |                             |       |  | R2009712-009                 | R2009622-003                 | R2009622-004                 | R2009622-006                | R2011582-001                 | R2011582-002                 | R2011582-003                 | R2009712-001            |                              |            |         |        |         |       |         |    |
| Sample Type       |             |                             |       |  | REG                          | REG                          | REG                          | REG                         | REG                          | REG                          | REG                          | REG                     |                              |            |         |        |         |       |         |    |
| Matrix            |             |                             |       |  | SOIL                         | SOIL                         | SOIL                         | SOIL                        | SOIL                         | SOIL                         | SOIL                         | SOIL                    |                              |            |         |        |         |       |         |    |
| Analytical Method | CAS_RN      | Chemical Name               | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(4)</sup> |                              |                              |                              |                             |                              |                              |                              |                         |                              |            |         |        |         |       |         |    |
| SW8260            | XYLENES1314 | m&p-Xylenes                 | mg/kg | 500  | 0.77                         | 0.021                        | UJ                           | 0.02                        | UJ                           | 0.0093                       | U                            | 0.0025                  | J                            | 0.0011     | J       | 0.0013 | J       | 0.016 | U       |    |
| SW8260            | 79-20-9     | Methyl Acetate              | mg/kg |  | 0.24                         | U                            | 0.01                         | U                           | 0.0098                       | U                            | 0.0047                       | U                       | 0.0061                       | U          | 0.0058  | U      | 0.0018  | J     | 0.0014  | J  |
| SW8260            | 108-87-2    | Methylcyclohexane           | mg/kg |  | 0.07                         | J                            | 0.00081                      | J                           | 0.0035                       | J                            | 0.0047                       | U                       | 0.00067                      | J          | 0.0048  | J      | 0.053   |       | 0.0081  | U  |
| SW8260            | 95-47-6     | o-Xylene                    | mg/kg | 500  | 0.062                        | J                            | 0.01                         | UJ                          | 0.0098                       | UJ                           | 0.0047                       | U                       | 0.0024                       | J          | 0.00066 | J      | 0.00066 | J     | 0.0081  | U  |
| SW8260            | 100-42-5    | Styrene                     | mg/kg |  | 0.24                         | U                            | 0.01                         | UJ                          | 0.0098                       | UJ                           | 0.0047                       | U                       | 0.00084                      | J          | 0.00029 | J      | 0.00041 | J     | 0.0081  | U  |
| SW8260            | 108-88-3    | Toluene                     | mg/kg | 500  | 0.044                        | J                            | 0.01                         | U                           | 0.00044                      | J                            | 0.0047                       | U                       | 0.0017                       | J          | 0.0022  | J      | 0.0027  | J     | 0.0081  | U  |
| SW8260            | 1330-20-7   | Total Xylenes               | mg/kg | 500  | 0.83                         |                              | 0.021                        | U                           | 0.02                         | U                            | 0.0093                       | U                       | 0.0049                       | J          | 0.0018  | J      | 0.0020  | J     | 0.016   | U  |
| SW8260            | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg | 500  | 6.3                          |                              | 0.01                         | U                           | 0.0098                       | U                            | 0.0047                       | U                       | 0.0061                       | U          | 0.0058  | U      | 0.006   | U     | 0.0011  | J  |
| SW8260            | 79-01-6     | Trichloroethene             | mg/kg | 200  | 6.5                          |                              | 0.01                         | U                           | 0.0098                       | U                            | 0.0047                       | U                       | 0.0061                       | U          | 0.0058  | U      | 0.006   | U     | 0.00045 | J  |
|                   |             | Semivolatiles               |       |  |                              |                              |                              |                             |                              |                              |                              |                         |                              |            |         |        |         |       |         |    |
| SW8270            | 92-52-4     | 1,1'-Biphenyl               | mg/kg |  | 0.37                         | U                            | 1.5                          |                             | 0.78                         |                              | 0.038                        | U                       | 2.1                          | U          | 2       | U      | 0.38    | U     | 0.023   | J  |
| SW8270            | 105-67-9    | 2,4-Dimethylphenol          | mg/kg |  | 0.37                         | U                            | 0.37                         |                             | 0.23                         |                              | 0.038                        | U                       | 2.1                          | U          | 2       | U      | 0.38    | U     | 0.043   | U  |
| SW8270            | 91-57-6     | 2-Methylnaphthalene         | mg/kg |  | 0.17                         |                              | 2.4                          | J                           | 8.3                          |                              | 0.0043                       | J                       | 0.63                         | J          | ND      |        | 0.38    | U     | 0.17    |    |
| SW8270            | 95-48-7     | 2-Methylphenol              | mg/kg | 500  | 0.37                         | U                            | 0.37                         |                             | 0.23                         |                              | 0.038                        | U                       | 2.1                          | U          | 2       | U      | 0.38    | U     | 0.043   | U  |
| SW8270            | 34METPH     | 3&4-Methylphenol            | mg/kg | 500  | 0.37                         | U                            | 3.1                          |                             | 1.9                          |                              | 0.038                        | U                       | 2.1                          | U          | 2       | U      | 0.38    | U     | 0.043   | U  |
| SW8270            | 100-52-7    | Benzaldehyde                | mg/kg |  | 0.37                         | U                            | 0.33                         |                             | 0.35                         |                              | 0.038                        | U                       | 11                           | U          | 10      | U      | 1.9     | U     | 0.043   | UJ |
| SW8270            | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg |  | 6.7                          | U                            | 3.3                          | J                           | 2                            | J                            | 0.69                         | U                       | 0.9                          | J          | 3.1     | U      | 0.57    | U     | 0.13    | J  |
| SW8270            | 86-74-8     | Carbazole                   | mg/kg |  | 0.2                          | J                            | 2.2                          | J                           | 4.6                          |                              | 0.038                        | U                       | 1.7                          | J          | 1.4     | J      | 0.38    | U     | 0.13    |    |
| SW8270            | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg |  | 5.6                          | U                            | 0.56                         | J                           | 0.34                         | J                            | 0.58                         | U                       | 2.1                          | U          | 2       | U      | 0.38    | U     | 0.66    | U  |
| SW8270            | 108-95-2    | Phenol                      | mg/kg | 500  | 0.37                         | U                            | 3                            |                             | 1.9                          |                              | 0.038                        | U                       | 2.1                          | U          | 2       | U      | 0.38    | U     | 0.043   | U  |
|                   |             | PAHs                        |       |  |                              |                              |                              |                             |                              |                              |                              |                         |                              |            |         |        |         |       |         |    |
| SW8270            | 83-32-9     | Acenaphthene                | mg/kg | 500  | 0.11                         |                              | 1.2                          | J                           | 3.3                          |                              | 0.0076                       | U                       | 6.9                          |            | 4.9     |        | 0.38    | U     | 0.14    |    |
| SW8270            | 208-96-8    | Acenaphthylene              | mg/kg | 500  | 0.36                         |                              | 1.4                          |                             | 1.5                          |                              | 0.0076                       | U                       | 20                           |            | 8.5     |        | 0.38    | U     | 0.097   |    |
| SW8270            | 120-12-7    | Anthracene                  | mg/kg | 500  | 0.47                         |                              | 4.4                          | J                           | 6.7                          |                              | 0.0076                       | U                       | 32                           |            | 12      |        | 0.067   | J     | 0.19    |    |
| SW8270            | 56-55-3     | Benzo(A)Anthracene          | mg/kg | 5.6  | 1.1                          |                              | 96                           |                             | 26                           |                              | 0.014                        |                         | 73                           |            | 25      |        | 0.12    | J     | 0.95    |    |
| SW8270            | 50-32-8     | Benzo(A)Pyrene              | mg/kg | 1  | 1.7                          |                              | 20                           | J                           | 43                           |                              | 0.021                        |                         | 86                           |            | 34      |        | 0.11    | J     | 1.8     |    |
| SW8270            | 205-99-2    | Benzo(B)Fluoranthene        | mg/kg | 5.6  | 2                            |                              | 21                           | J                           | 43                           |                              | 0.023                        |                         | 83                           |            | 34      |        | 0.11    | J     | 1.8     |    |
| SW8270            | 191-24-2    | Benzo(G,H,I)perylene        | mg/kg | 500  | 1.1                          |                              | 16                           | J                           | 32                           |                              | 0.017                        |                         | 38                           |            | 15      |        | 0.38    | U     | 1.3     |    |
| SW8270            | 207-08-9    | Benzo(K)Fluoranthene        | mg/kg | 56   | 0.68                         |                              | 6.6                          | J                           | 15                           |                              | 0.0078                       |                         | 28                           |            | 13      |        | 0.38    | U     | 0.5     |    |
| SW8270            | 218-01-9    | Chrysene                    | mg/kg | 56   | 1.3                          |                              | 16                           | J                           | 30                           |                              | 0.015                        |                         | 70                           |            | 25      |        | 0.12    | J     | 1.1     |    |
| SW8270            | 53-70-3     | Dibenzo(a,h)Anthracene      | mg/kg | 0.56   | 0.24                         |                              | 3.6                          | J                           | 7.1                          |                              | 0.0042                       | J                       | 9                            |            | 3.6     |        | 0.38    | U     | 0.21    |    |
| SW8270            | 132-64-9    | Dibenzofuran                | mg/kg | 350  | 0.19                         |                              | 1.3                          | J                           | 3.3                          |                              | 0.0076                       | U                       | 8.1                          |            | 6.2     |        | 0.38    | U     | 0.078   |    |
| SW8270            | 206-44-0    | Fluoranthene                | mg/kg | 500  | 2.5                          |                              | 21                           | J                           | 47                           |                              | 0.022                        |                         | 180                          |            | 63      |        | 0.34    | J     | 1.8     |    |
| SW8270            | 86-73-7     | Fluorene                    | mg/kg | 500  | 0.26                         |                              | 1.2                          | J                           | 2.7                          |                              | 0.0076                       | U                       | 19                           |            | 12      |        | 0.38    | U     | 0.066   |    |
| SW8270            | 193-39-5    | Indeno(1,2,3-Cd)Pyrene      | mg/kg | 5.6  | 0.99                         |                              | 17                           | J                           | 31                           |                              | 0.016                        |                         | 40                           |            | 16      |        | 0.38    | U     | 1.3     |    |
| SW8270            | 91-20-3     | Naphthalene                 | mg/kg | 500  | 0.39                         |                              | 3.2                          | J                           | 9.4                          |                              | 0.0057                       | J                       | 4.1                          |            | 0.97    | J      | 0.38    | U     | 0.16    |    |
| SW8270            | 85-01-8     | Phenanthrene                | mg/kg | 500  | 1.5                          |                              | 14                           | J                           | 29                           |                              | 0.016                        |                         | 89                           |            | 28      |        | 0.24    | J     | 0.94    |    |
| SW8270            | 129-00-0    | Pyrene                      | mg/kg | 500  | 2.2                          |                              | 20                           | J                           | 46                           |                              | 0.018                        |                         | 150                          |            | 51      |        | 0.26    | J     | 1.7     |    |
|                   |             | Total PAHs <sup>(5)</sup>   | mg/kg | 500  | 17                           |                              | 260                          |                             | 380                          |                              | 0.18                         |                         | 940                          |            | 350     |        | 1.4     |       | 14      |    |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessmen of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.

(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs

TABLE 4 FOCUSED RI SITE 109 SOIL ANALYTICAL SUMMARY

| Location ID       |            |   |       |  | SB-03-2020                   | SB-04-2020                   | SB-04-2020                      | SB-04-2020                   | SB-04-2020                  | SB-04-2020                   | TP-01-2020                   | TP-01-2020                  | TP-01-2020 |
|-------------------|------------|---|-------|--|------------------------------|------------------------------|---------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|------------|
| Field Sample ID   |            |   |       |  | SB-03-2020-0.16-1.0-10142020 | SB-04-2020-0.0-0.16-10142020 | SB-04-2020-0.0-0.16-10142020 FD | SB-04-2020-0.16-1.0-10142020 | SB-04-2020-3.0-4.0-10142020 | TP-01-2020-0.0-0.16-09292020 | TP-01-2020-0.16-1.0-09292020 | TP-01-2020-2.0-3.0-09292020 |            |
| Start Depth (ft)  |            |   |       |  | 0.16                         | 0                            | 0                               | 0.16                         | 0.16                        | 0                            | 0.16                         | 0.16                        |            |
| End Depth (ft)    |            |   |       |  | 1                            | 0.16                         | 0.16                            | 1                            | 4                           | 0.16                         | 1                            | 3                           |            |
| Sampled           |            |   |       |  | 10/14/2020                   | 10/14/2020                   | 10/14/2020                      | 10/14/2020                   | 10/14/2020                  | 9/29/2020                    | 9/29/2020                    | 9/29/2020                   |            |
| SDG               |            |   |       |  | R2009712                     | R2009712                     | R2009712                        | R2009712                     | R2009712                    | R2009023                     | R2009023                     | R2009023                    |            |
| Lab Sample ID     |            |   |       |  | R2009712-002                 | R2009712-003                 | R2009712-004                    | R2009712-005                 | R2009712-006                | R2009023-002                 | R2009023-003                 | R2009023-004                |            |
| Sample Type       |            |   |       |  | REG                          | REG                          | FD                              | REG                          | REG                         | REG                          | REG                          | REG                         |            |
| Matrix            |            |   |       |  | SOIL                         | SOIL                         | SOIL                            | SOIL                         | SOIL                        | SOIL                         | SOIL                         | SOIL                        |            |
| Analytical Method | CAS_RN     | Chemical Name   | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |                              |                              |                                 |                              |                             |                              |                              |                             |            |
| E160.3            | SOLID      | Solids  | %     |  | 87.1                         | 77.1                         | 78.4                            | 85.9                         | 85.6                        | 86.6                         | 90                           | 91                          |            |
| E160.3            | SOLIDS     | Total Solids  | %     |  |                              |                              |                                 |                              |                             |                              |                              |                             |            |
|                   |            | PFAS  |       |  |                              |                              |                                 |                              |                             |                              |                              |                             |            |
| E537M             | 2991-50-6  | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg |  |                              | 0.0013 U                     | 0.0012 U                        | 0.0011 U                     | 0.0003 J                    | 0.0011 U                     | 0.00092 U                    | 0.00085 U                   |            |
| E537M             | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg |  |                              | 0.0013 U                     | 0.0012 U                        | 0.0011 U                     | 0.0011 U                    | 0.00029 J                    | 0.00024 J                    | 0.00085 U                   |            |
| E537M             | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg |  |                              | 0.0013 U                     | 0.0012 U                        | 0.00037 J                    | 0.0011 U                    | 0.0011 U                     | 0.00092 U                    | 0.00085 U                   |            |
| E537M             | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   |                              | 0.0013 U                     | 0.0012 U                        | 0.0011 U                     | 0.0011 U                    | 0.00082 J                    | 0.00081 J                    | 0.00046 J                   |            |
| E537M             | 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   |                              | 0.0013 U                     | 0.0012 U                        | 0.0011 U                     | 0.0011 U                    | 0.0011 U                     | 0.00092 U                    | 0.00014 J                   |            |
| E537M             | 2058-94-8  | Perfluoroundecanoic Acid (PfundA)                         | mg/kg |  |                              | 0.0013 U                     | 0.0012 U                        | 0.0011 U                     | 0.0011 U                    | 0.00024 J                    | 0.00092 U                    | 0.00085 U                   |            |
|                   |            | Metals and Cyanide  |       |  |                              |                              |                                 |                              |                             |                              |                              |                             |            |
| SW6010            | 7429-90-5  | Aluminum  | mg/kg |  | 13000                        | 17900                        | 16900                           | 15500                        | 15100                       | 18300                        | 12200                        | 9920                        |            |
| SW6010            | 7440-38-2  | Arsenic   | mg/kg | 16   | 8.9                          | 5.8                          | 5.4                             | 4.9 J                        | 8                           | 6.9                          | 6.8                          | 3.9                         |            |
| SW6010            | 7440-39-3  | Barium  | mg/kg | 400  | 76.4                         | 104                          | 101                             | 128 J                        | 114                         | 99.3                         | 95.7                         | 76                          |            |
| SW6010            | 7440-41-7  | Beryllium   | mg/kg | 590  | 0.723                        | 0.802                        | 0.748                           | 0.951                        | 0.865                       | 0.85                         | 0.797                        | 0.56                        |            |
| SW6010            | 7440-43-9  | Cadmium   | mg/kg | 9.3  | 0.597                        | 0.637                        | 0.576 J                         | 1.3                          | 0.696                       | 0.359 J                      | 0.629                        | 0.527 J                     |            |
| SW6010            | 7440-70-2  | Calcium   | mg/kg |  | 3350                         | 7910                         | 10300                           | 52400 J                      | 37200                       | 5920                         | 51600                        | 73500                       |            |
| SW6010            | 7440-47-3  | Chromium <sup>(3)</sup>                                   | mg/kg | 400  | 17.8                         | 23.4                         | 22.1                            | 20 J                         | 24.2                        | 23.7                         | 18.1                         | 14.9                        |            |
| SW6010            | 7440-48-4  | Cobalt  | mg/kg |  | 10                           | 10.5                         | 9.4                             | 10.6                         | 10.1                        | 11.1                         | 6.9                          | 6.1                         |            |
| SW6010            | 7440-50-8  | Copper  | mg/kg | 270  | 13.7                         | 68.1                         | 65                              | 262 J                        | 69.4                        | 18.1                         | 130                          | 102                         |            |
| SW6010            | 7439-89-6  | Iron  | mg/kg |  | 27600                        | 28900                        | 26800                           | 24400                        | 25500                       | 29600                        | 19300                        | 17700                       |            |
| SW6010            | 7439-92-1  | Lead  | mg/kg | 1000   | 41                           | 28.9                         | 28.8                            | 39.3                         | 52.4                        | 36.7                         | 60.9                         | 38.7                        |            |
| SW6010            | 7439-95-4  | Magnesium   | mg/kg |  | 3060                         | 5690                         | 5440                            | 11500 J                      | 10700                       | 4570                         | 10600                        | 27300                       |            |
| SW6010            | 7439-96-5  | Manganese   | mg/kg | 10000  | 904                          | 534                          | 483                             | 849 J                        | 568                         | 663                          | 586                          | 449                         |            |
| SW6010            | 7440-02-0  | Nickel  | mg/kg | 310  | 18.4                         | 20.5                         | 19                              | 19.2                         | 24.3                        | 19.9                         | 17.6                         | 14.4                        |            |
| SW6010            | 7440-09-7  | Potassium   | mg/kg |  | 1110                         | 2940                         | 2790                            | 2780                         | 2350                        | 2090                         | 1710                         | 1750                        |            |
| SW6010            | 7782-49-2  | Selenium  | mg/kg | 1500   | 11.5 U                       | 1.2 U                        | 1.2 U                           | 1.1 U                        | 1.1 U                       | 0.828 J                      | 1.1 U                        | 1.1 U                       |            |
| SW6010            | 7440-22-4  | Silver  | mg/kg | 1500   | 1.2 U                        | 1.2 U                        | 1.2 U                           | 1.1 U                        | 0.09 J                      | 1.1 U                        | 1.1 U                        | 1.1 U                       |            |
| SW6010            | 7440-23-5  | Sodium  | mg/kg |  | 81.8 J                       | 87.1 J                       | 90 J                            | 195                          | 194                         | 78.9 J                       | 177                          | 178                         |            |
| SW6010            | 7440-28-0  | Thallium  | mg/kg |  | 1.2 U                        | 1.2 U                        | 1.2 U                           | 1.1 U                        | 1.1 U                       | 1.1 U                        | 1.1 U                        | 1.1 U                       |            |
| SW6010            | 7440-62-2  | Vanadium  | mg/kg |  | 33.3                         | 36.3                         | 33.6                            | 28.8                         | 30                          | 37.4                         | 24.6                         | 20.1                        |            |
| SW6010            | 7440-66-6  | Zinc  | mg/kg | 10000  | 102                          | 142                          | 148                             | 387                          | 166                         | 2.2 U                        | 2.1 U                        | 2.2 U                       |            |
| SW7471            | 7439-97-6  | Mercury   | mg/kg | 2.8  | 0.091                        | 0.057                        | 0.062                           | 0.127 J                      | 0.433                       | 0.072                        | 0.14                         | 0.149                       |            |
| SW9012            | 57-12-5    | Cyanide, Total  | mg/kg | 27   | 0.35                         | 0.42                         | 0.31                            | 0.24                         | 0.27                        | 0.29 J                       | 0.32                         | 0.31                        |            |
|                   |            | Pesticides  |       |  |                              |                              |                                 |                              |                             |                              |                              |                             |            |
| SW8081            | 72-55-9    | 4,4'-DDE  | mg/kg | 62   | 0.0099 U                     | 0.011 U                      | 0.0058 J                        | 0.0099 U                     | 0.01 U                      | 0.015 J                      | 0.011 J                      | 0.019 U                     |            |
| SW8081            | 50-29-3    | 4,4'-DDT  | mg/kg | 47   | 0.0099 U                     | 0.011 U                      | 0.011 U                         | 0.0099 U                     | 0.01 U                      | 0.011 J                      | 0.018 J                      | 0.019 U                     |            |
| SW8081            | 1031-07-8  | Endosulfan Sulfate <sup>(4)</sup>                         | mg/kg | 200  | 0.0099 U                     | 0.011 U                      | 0.011 U                         | 0.0099 U                     | 0.01 U                      | 0.019 U                      | 0.018 U                      | 0.019 U                     |            |
| SW8081            | 7421-93-4  | Endrin Aldehyde   | mg/kg |  | 0.0099 U                     | 0.011 U                      | 0.011 U                         | 0.0099 U                     | 0.01 U                      | 0.019 U                      | 0.018 U                      | 0.019 U                     |            |
| SW8081            | 53494-70-5 | Endrin Ketone   | mg/kg |  | 0.0099 U                     | 0.011 U                      | 0.011 U                         | 0.0099 U                     | 0.01 U                      | 0.019 U                      | 0.018 U                      | 0.019 U                     |            |
| SW8081            | 5566-34-7  | Gamma-Chlordane   | mg/kg |  | 0.0099 U                     | 0.011 U                      | 0.011 U                         | 0.0099 U                     | 0.01 U                      | 0.019 U                      | 0.018 U                      | 0.019 U                     |            |
| SW8081            | 76-44-8    | Heptachlor  | mg/kg | 15   | 0.0099 U                     | 0.011 U                      | 0.011 U                         | 0.0099 U                     | 0.01 U                      | 0.019 U                      | 0.018 U                      | 0.019 U                     |            |
| SW8081            | 72-43-5    | Methoxychlor  | mg/kg |  | 0.0099 U                     | 0.011 U                      | 0.011 U                         | 0.0099 U                     | 0.01 U                      | 0.019 U                      | 0.018 U                      | 0.019 U                     |            |
|                   |            | PCBs  |       |  |                              |                              |                                 |                              |                             |                              |                              |                             |            |
| SW8082            | 12672-29-6 | Aroclor-1248  | mg/kg | 1  | 0.038 U                      | 0.05 J                       | 0.042 U                         | 0.039 U                      | 0.039 U                     | 0.038 U                      | 0.036 U                      | 0.036 U                     |            |
| SW8082            | 11097-69-1 | Aroclor-1254  | mg/kg | 1  | 0.038 U                      | 0.043 U                      | 0.042 U                         | 0.039 U                      | 0.039 U                     | 0.038 U                      | 0.036 U                      | 0.036 U                     |            |
| SW8082            | 11096-82-5 | Aroclor-1260  | mg/kg | 1  | 0.038 U                      | 0.043 U                      | 0.042 U                         | 0.039 U                      | 0.024 J                     | 0.038 U                      | 0.026 J                      | 0.036 U                     |            |
| SW8082            | 11100-14-4 | Aroclor-1268  | mg/kg | 1  | 0.038 U                      | 0.043 U                      | 0.042 U                         | 0.039 U                      | 0.039 U                     | 0.038 U                      | 0.036 U                      | 0.036 U                     |            |
|                   |            | Total PCBs <sup>(5)</sup>                                 | mg/kg | 1  | 0.038 U                      | 0.05                         | 0.042 U                         | 0.039 U                      | 0.024                       | 0.038 U                      | 0.026                        | 0.036 U                     |            |
|                   |            | Volatiles   |       |  |                              |                              |                                 |                              |                             |                              |                              |                             |            |
| SW8260            | 78-93-3    | 2-Butanone  | mg/kg | 500  | 0.0061 U                     | 0.0049 J                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 591-78-6   | 2-Hexanone  | mg/kg |  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 108-10-1   | 4-Methyl-2-Pentanone                                      | mg/kg |  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 67-64-1    | Acetone   | mg/kg | 500  | 0.0061 U                     | 0.025 J                      | 0.0062 J                        | 0.006 U                      | 0.0087 U                    | 0.033                        | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 71-43-2    | Benzene   | mg/kg | 44   | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 75-15-0    | Carbon Disulfide  | mg/kg |  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 67-66-3    | Chloroform  | mg/kg | 350  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 156-59-2   | cis-1,2-Dichloroethene                                    | mg/kg | 500  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 110-82-7   | Cyclohexane   | mg/kg |  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 100-41-4   | Ethylbenzene  | mg/kg | 390  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 98-82-8    | Isopropylbenzene  | mg/kg |  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |

TABLE 4 FOCUSED RI SITE 109 SOIL ANALYTICAL SUMMARY

| Location ID       |             |                             |       |  | SB-03-2020                   | SB-04-2020                   | SB-04-2020                      | SB-04-2020                   | SB-04-2020                  | SB-04-2020                   | TP-01-2020                   | TP-01-2020                  | TP-01-2020 |
|-------------------|-------------|-----------------------------|-------|--|------------------------------|------------------------------|---------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|------------|
| Field Sample ID   |             |                             |       |  | SB-03-2020-0.16-1.0-10142020 | SB-04-2020-0.0-0.16-10142020 | SB-04-2020-0.0-0.16-10142020 FD | SB-04-2020-0.16-1.0-10142020 | SB-04-2020-3.0-4.0-10142020 | TP-01-2020-0.0-0.16-09292020 | TP-01-2020-0.16-1.0-09292020 | TP-01-2020-2.0-3.0-09292020 |            |
| Start Depth (ft)  |             |                             |       |  | 0.16                         | 0                            | 0                               | 0                            | 0                           | 0                            | 0                            | 0                           |            |
| End Depth (ft)    |             |                             |       |  | 1                            | 0.16                         | 0.16                            | 0.16                         | 1                           | 0.16                         | 1                            | 3                           |            |
| Sampled           |             |                             |       |  | 10/14/2020                   | 10/14/2020                   | 10/14/2020                      | 10/14/2020                   | 10/14/2020                  | 9/29/2020                    | 9/29/2020                    | 9/29/2020                   |            |
| SDG               |             |                             |       |  | R2009712                     | R2009712                     | R2009712                        | R2009712                     | R2009712                    | R2009023                     | R2009023                     | R2009023                    |            |
| Lab Sample ID     |             |                             |       |  | R2009712-002                 | R2009712-003                 | R2009712-004                    | R2009712-005                 | R2009712-006                | R2009023-002                 | R2009023-003                 | R2009023-004                |            |
| Sample Type       |             |                             |       |  | REG                          | REG                          | FD                              | REG                          | REG                         | REG                          | REG                          | REG                         |            |
| Matrix            |             |                             |       |  | SOIL                         | SOIL                         | SOIL                            | SOIL                         | SOIL                        | SOIL                         | SOIL                         | SOIL                        |            |
| Analytical Method | CAS_RN      | Chemical Name               | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(4)</sup> |                              |                              |                                 |                              |                             |                              |                              |                             |            |
| SW8260            | XYLENES1314 | m&p-Xylenes                 | mg/kg | 500  | 0.012 U                      | 0.017 U                      | 0.013 U                         | 0.012 U                      | 0.017 U                     | 0.017 U                      | 0.014 U                      | 0.014 U                     |            |
| SW8260            | 79-20-9     | Methyl Acetate              | mg/kg |  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 108-87-2    | Methylcyclohexane           | mg/kg |  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 95-47-6     | o-Xylene                    | mg/kg | 500  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 100-42-5    | Styrene                     | mg/kg |  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 108-88-3    | Toluene                     | mg/kg | 500  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0088 J                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 1330-20-7   | Total Xylenes               | mg/kg | 500  | 0.012 U                      | 0.017 U                      | 0.013 U                         | 0.012 U                      | 0.017 U                     | 0.017 U                      | 0.014 U                      | 0.014 U                     |            |
| SW8260            | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg | 500  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0069 U                    |            |
| SW8260            | 79-01-6     | Trichloroethene             | mg/kg | 200  | 0.0061 U                     | 0.0085 U                     | 0.0064 U                        | 0.006 U                      | 0.0087 U                    | 0.0087 U                     | 0.0069 U                     | 0.0093 J                    |            |
|                   |             | Semivolatiles               |       |  |                              |                              |                                 |                              |                             |                              |                              |                             |            |
| SW8270            | 92-52-4     | 1,1'-Biphenyl               | mg/kg |  | 0.012 J                      | 0.042 U                      | 0.043 U                         | 0.013 J                      | 0.12 U                      | 0.038 U                      | 0.11 U                       | 0.037 U                     |            |
| SW8270            | 105-67-9    | 2,4-Dimethylphenol          | mg/kg |  | 0.039 U                      | 0.042 U                      | 0.043 U                         | 0.038 U                      | 0.12 U                      | 0.038 U                      | 0.11 U                       | 0.037 U                     |            |
| SW8270            | 91-57-6     | 2-Methylnaphthalene         | mg/kg |  | 0.1                          | 0.032                        | 0.03                            | 0.048                        | 0.083                       | 0.03                         | 0.11                         | 0.022                       |            |
| SW8270            | 95-48-7     | 2-Methylphenol              | mg/kg | 500  | 0.039 U                      | 0.042 U                      | 0.043 U                         | 0.038 U                      | 0.12 U                      | 0.038 U                      | 0.11 U                       | 0.037 U                     |            |
| SW8270            | 34METPH     | 3&4-Methylphenol            | mg/kg | 500  | 0.039 U                      | 0.042 U                      | 0.043 U                         | 0.038 U                      | 0.12 U                      | 0.038 U                      | 0.11 U                       | 0.037 U                     |            |
| SW8270            | 100-52-7    | Benzaldehyde                | mg/kg |  | 0.039 UJ                     | 0.042 UJ                     | 0.043 UJ                        | 0.038 UJ                     | 0.12 U                      | 0.038 U                      | 0.11 U                       | 0.037 U                     |            |
| SW8270            | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg |  | 0.059 J                      | 0.77 U                       | 0.78 UJ                         | 0.039 J                      | 2.1 U                       | 0.69 U                       | 2 U                          | 0.67 U                      |            |
| SW8270            | 86-74-8     | Carbazole                   | mg/kg |  | 0.06                         | 0.036 J                      | 0.048                           | 0.073                        | 0.1 J                       | 0.037 J                      | 0.2                          | 0.036 J                     |            |
| SW8270            | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg |  | 0.59 U                       | 0.64 U                       | 0.65 U                          | 0.58 U                       | 1.8 U                       | 0.58 U                       | 1.7 U                        | 0.56 U                      |            |
| SW8270            | 108-95-2    | Phenol                      | mg/kg | 500  | 0.039 U                      | 0.042 U                      | 0.043 U                         | 0.038 U                      | 0.12 U                      | 0.038 U                      | 0.11 U                       | 0.037 U                     |            |
|                   |             | PAHs                        |       |  |                              |                              |                                 |                              |                             |                              |                              |                             |            |
| SW8270            | 83-32-9     | Acenaphthene                | mg/kg | 500  | 0.055                        | 0.022                        | 0.033                           | 0.052                        | 0.097                       | 0.02                         | 0.14                         | 0.024                       |            |
| SW8270            | 208-96-8    | Acenaphthylene              | mg/kg | 500  | 0.057                        | 0.095                        | 0.1                             | 0.21                         | 0.24                        | 0.051                        | 0.37                         | 0.11                        |            |
| SW8270            | 120-12-7    | Anthracene                  | mg/kg | 500  | 0.084                        | 0.11                         | 0.13                            | 0.35                         | 0.46                        | 0.081                        | 0.67                         | 0.17                        |            |
| SW8270            | 56-55-3     | Benzo(A)Anthracene          | mg/kg | 5.6  | 0.38                         | 0.44                         | 0.51                            | 1.1                          | 1.5                         | 0.41                         | 3.1                          | 0.53                        |            |
| SW8270            | 50-32-8     | Benzo(A)Pyrene              | mg/kg | 1  | 0.69                         | 0.73                         | 0.78                            | 1.5                          | 2.1                         | 0.67                         | 4.9                          | 0.73                        |            |
| SW8270            | 205-99-2    | Benzo(B)Fluoranthene        | mg/kg | 5.6  | 0.69                         | 0.81                         | 0.84                            | 1.6                          | 2.2                         | 0.75                         | 5.1                          | 0.84                        |            |
| SW8270            | 191-24-2    | Benzo(G,H,I)perylene        | mg/kg | 500  | 0.39                         | 0.28                         | 0.29                            | 0.53                         | 1.4                         | 0.43                         | 1.9                          | 0.38                        |            |
| SW8270            | 207-08-9    | Benzo(K)Fluoranthene        | mg/kg | 56   | 0.24                         | 0.27                         | 0.28                            | 0.51                         | 0.76                        | 0.27                         | 1.4                          | 0.28                        |            |
| SW8270            | 218-01-9    | Chrysene                    | mg/kg | 56   | 0.48                         | 0.55                         | 0.57                            | 1.2                          | 1.4                         | 0.51                         | 3.4                          | 0.59                        |            |
| SW8270            | 53-70-3     | Dibenzo(a,h)Anthracene      | mg/kg | 0.56   | 0.095                        | 0.074                        | 0.085                           | 0.15                         | 0.36                        | 0.1                          | 0.51                         | 0.11                        |            |
| SW8270            | 132-64-9    | Dibenzofuran                | mg/kg | 350  | 0.038                        | 0.025                        | 0.029                           | 0.063                        | 0.13                        | 0.022                        | 0.14                         | 0.036                       |            |
| SW8270            | 206-44-0    | Fluoranthene                | mg/kg | 500  | 0.72                         | 0.75                         | 0.86                            | 2.2                          | 4.2                         | 0.93                         | 5.6                          | 1                           |            |
| SW8270            | 86-73-7     | Fluorene                    | mg/kg | 500  | 0.032                        | 0.028                        | 0.037                           | 0.087                        | 0.2                         | 0.022                        | 0.21                         | 0.047                       |            |
| SW8270            | 193-39-5    | Indeno(1,2,3-Cd)Pyrene      | mg/kg | 5.6  | 0.44                         | 0.33                         | 0.35                            | 0.6                          | 1.5                         | 0.48                         | 3.8                          | 0.45                        |            |
| SW8270            | 91-20-3     | Naphthalene                 | mg/kg | 500  | 0.093                        | 0.087                        | 0.089                           | 0.15                         | 0.18                        | 0.063                        | 0.37                         | 0.073                       |            |
| SW8270            | 85-01-8     | Phenanthrene                | mg/kg | 500  | 0.42                         | 0.3                          | 0.38                            | 0.93                         | 2.1                         | 0.34                         | 2.7                          | 0.45                        |            |
| SW8270            | 129-00-0    | Pyrene                      | mg/kg | 500  | 0.76                         | 0.75                         | 0.83                            | 2                            | 3.7                         | 0.96                         | 5.9                          | 1.1                         |            |
|                   |             | Total PAHs <sup>(5)</sup>   | mg/kg | 500  | 5.7                          | 5.7                          | 6.2                             | 13                           | 23                          | 6.1                          | 40                           | 6.9                         |            |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.

(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs



TABLE 4 FOCUSED RI SITE 109 SOIL ANALYTICAL SUMMARY

|                   |            |   |       |  | Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>SDG<br>Lab Sample ID<br>Sample Type<br>Matrix | TP-01-2020<br>TP-01-2020-10.0-10.6-09292020<br>10<br>10.6<br>9/29/2020<br>R2009023<br>R2009023-005<br>REG<br>SOIL | TP-04-2020<br>TP-04-2020-2.5-3.0-09302020<br>2.5<br>3<br>9/30/2020<br>R2009132<br>R2009132-001<br>REG<br>SOIL | TP-05-2020<br>TP-05-2020-0.0-0.16-09292020<br>0<br>0.16<br>9/29/2020<br>R2009023<br>R2009023-006<br>REG<br>SOIL | TP-05-2020<br>TP-05-2020-0.16-1.0-09292020<br>0.16<br>1<br>9/29/2020<br>R2009023<br>R2009023-007<br>REG<br>SOIL | TP-05-2020<br>TP-05-2020-3.0-4.0-09292020<br>3<br>4<br>9/29/2020<br>R2009023<br>R2009023-008<br>REG<br>SOIL |
|-------------------|------------|---|-------|--|--|---|---|---|---|---|
| Analytical Method | CAS_RN     | Chemical Name   | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(4)</sup> |  |   |   |   |   |   |
| E160.3            | SOLID      | Solids  | %     |  | 85.6   |   | 77.7  |   | 73.5  |   |
| E160.3            | SOLIDS     | Total Solids  | %     |  |  |   |   |   | 76.2  | 87  |
|                   |            | PFAS  |       |  |  |   |   |   |   |   |
| E537M             | 2991-50-6  | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg |  | 0.0011 U   |   |   |   |   |   |
| E537M             | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg |  | 0.0011 U   |   |   |   |   |   |
| E537M             | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg |  | 0.0011 U   |   |   |   |   |   |
| E537M             | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   | 0.00032 J  |   |   |   |   |   |
| E537M             | 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   | 0.0011 U   |   |   |   |   |   |
| E537M             | 2058-94-8  | Perfluoroundecanoic Acid (Pfunda)                         | mg/kg |  | 0.0011 U   |   |   |   |   |   |
|                   |            | Metals and Cyanide  |       |  |  |   |   |   |   |   |
| SW6010            | 7429-90-5  | Aluminum  | mg/kg |  | 15200  |   | 17400   | 13300   | 14400   | 13700   |
| SW6010            | 7440-38-2  | Arsenic   | mg/kg | 16   | 4.3  |   | 8.2   | 11.4  | 10.6  | 3.9   |
| SW6010            | 7440-39-3  | Barium  | mg/kg | 400  | 139  |   | 125   | 84  | 83.2  | 113 J   |
| SW6010            | 7440-41-7  | Beryllium   | mg/kg | 590  | 1.4  |   | 0.991   | 0.844   | 0.795   | 0.641   |
| SW6010            | 7440-43-9  | Cadmium   | mg/kg | 9.3  | 0.435 J  |   | 0.502 J   | 0.617 J   | 0.58 J  | 0.133 J   |
| SW6010            | 7440-70-2  | Calcium   | mg/kg |  | 91600  |   | 24700   | 6650  | 4050  | 65500   |
| SW6010            | 7440-47-3  | Chromium <sup>(3)</sup>                                   | mg/kg | 400  | 21.5   |   | 24.6  | 20.1  | 21.1  | 19.7 J  |
| SW6010            | 7440-48-4  | Cobalt  | mg/kg |  | 6  |   | 13.6  | 9   | 8.8   | 10  |
| SW6010            | 7440-50-8  | Copper  | mg/kg | 270  | 45.8   |   | 27.5  | 26.9  | 21.4  | 21.1  |
| SW6010            | 7439-89-6  | Iron  | mg/kg |  | 20500  |   | 34900   | 25700   | 26300   | 26700   |
| SW6010            | 7439-92-1  | Lead  | mg/kg | 1000   | 55.9   |   | 53.6  | 51.6  | 44.3  | 9.7   |
| SW6010            | 7439-95-4  | Magnesium   | mg/kg |  | 14300  |   | 10500   | 3230  | 3020  | 15400   |
| SW6010            | 7439-96-5  | Manganese   | mg/kg | 10000  | 1140   |   | 713   | 773   | 733   | 531 J   |
| SW6010            | 7440-02-0  | Nickel  | mg/kg | 310  | 15.7   |   | 28.1  | 25.6  | 25.7  | 23.1  |
| SW6010            | 7440-09-7  | Potassium   | mg/kg |  | 2010   |   | 2370  | 1540  | 1320  | 2390  |
| SW6010            | 7782-49-2  | Selenium  | mg/kg | 1500   | 1.2 U  |   | 0.772 J   | 1.1 J   | 12.6 U  | 0.652 J   |
| SW6010            | 7440-22-4  | Silver  | mg/kg | 1500   | 1.2 U  |   | 1.3 U   | 1.3 U   | 1.3 U   | 1.1 U   |
| SW6010            | 7440-23-5  | Sodium  | mg/kg |  | 557  |   | 227   | 238   | 340   | 524   |
| SW6010            | 7440-28-0  | Thallium  | mg/kg |  | 0.928 J  |   | 1.3 U   | 1.3 U   | 1.3 U   | 1.1 U   |
| SW6010            | 7440-62-2  | Vanadium  | mg/kg |  | 22.4   |   | 38  | 31.6  | 32.8  | 28  |
| SW6010            | 7440-66-6  | Zinc  | mg/kg | 10000  | 2.3 U  |   | 126   | 2.5 U   | 2.5 U   | 2.2 U   |
| SW7471            | 7439-97-6  | Mercury   | mg/kg | 2.8  | 0.14   |   | 0.064   | 0.105   | 0.095   | 0.038 U   |
| SW9012            | 57-12-5    | Cyanide, Total  | mg/kg | 27   | 0.55   |   | 0.28 U  | 0.74  | 0.47  | 0.34 U  |
|                   |            | Pesticides  |       |  |  |   |   |   |   |   |
| SW8081            | 72-55-9    | 4,4'-DDE  | mg/kg | 62   | 0.02 U   |   | 0.011 U   | 0.012 U   | 0.011 U   | 0.002 U   |
| SW8081            | 50-29-3    | 4,4'-DDT  | mg/kg | 47   | 0.02 U   |   | 0.011 U   | 0.0061 J  | 0.011 U   | 0.002 U   |
| SW8081            | 1031-07-8  | Endosulfan Sulfate <sup>(4)</sup>                         | mg/kg | 200  | 0.02 U   |   | 0.011 U   | 0.012 U   | 0.011 U   | 0.002 U   |
| SW8081            | 7421-93-4  | Endrin Aldehyde   | mg/kg |  | 0.02 U   |   | 0.011 U   | 0.012 U   | 0.011 U   | 0.002 U   |
| SW8081            | 53494-70-5 | Endrin Ketone   | mg/kg |  | 0.02 U   |   | 0.011 U   | 0.012 U   | 0.011 U   | 0.002 U   |
| SW8081            | 5566-34-7  | Gamma-Chlordane   | mg/kg |  | 0.02 U   |   | 0.011 U   | 0.012 U   | 0.011 U   | 0.002 U   |
| SW8081            | 76-44-8    | Heptachlor  | mg/kg | 15   | 0.02 U   |   | 0.011 U   | 0.012 U   | 0.011 U   | 0.002 U   |
| SW8081            | 72-43-5    | Methoxychlor  | mg/kg |  | 0.02 U   |   | 0.011 U   | 0.012 U   | 0.011 U   | 0.002 U   |
|                   |            | PCBs  |       |  |  |   |   |   |   |   |
| SW8082            | 12672-29-6 | Aroclor-1248  | mg/kg | 1  | 0.033 J  |   | 0.044   | 0.045 U   | 0.044 U   | 0.038 U   |
| SW8082            | 11097-69-1 | Aroclor-1254  | mg/kg | 1  | 0.039 U  |   | 0.023 J   | 0.045 U   | 0.044 U   | 0.038 U   |
| SW8082            | 11096-82-5 | Aroclor-1260  | mg/kg | 1  | 0.021 J  |   | 0.031 J   | 0.045 U   | 0.044 U   | 0.038 U   |
| SW8082            | 11100-14-4 | Aroclor-1268  | mg/kg | 1  | 0.039 U  |   | 0.042 U   | 0.045 U   | 0.044 U   | 0.038 U   |
|                   |            | Total PCBs <sup>(5)</sup>                                 | mg/kg | 1  | 0.054  |   | 0.098   | 0.045 U   | 0.044 U   | 0.038 U   |
|                   |            | Volatiles   |       |  |  |   |   |   |   |   |
| SW8260            | 78-93-3    | 2-Butanone  | mg/kg | 500  | 0.0046 U   |   | 0.0069 U  | 0.0095 U  | 0.0067 U  | 0.0046 U  |
| SW8260            | 591-78-6   | 2-Hexanone  | mg/kg |  | 0.0046 U   |   | 0.0069 U  | 0.0095 U  | 0.0067 U  | 0.0046 U  |
| SW8260            | 108-10-1   | 4-Methyl-2-Pentanone                                      | mg/kg |  | 0.0046 U   |   | 0.0069 U  | 0.0095 U  | 0.0067 U  | 0.0046 U  |
| SW8260            | 67-64-1    | Acetone   | mg/kg | 500  | 0.014  |   | 0.0069 U  | 0.0095 U  | 0.0067 U  | 0.0046 U  |
| SW8260            | 71-43-2    | Benzene   | mg/kg | 44   | 0.00029 J  |   | 0.0069 U  | 0.0095 U  | 0.0067 U  | 0.0046 U  |
| SW8260            | 75-15-0    | Carbon Disulfide  | mg/kg |  | 0.00041 J  |   | 0.0069 U  | 0.0095 U  | 0.0067 U  | 0.0046 U  |
| SW8260            | 67-66-3    | Chloroform  | mg/kg | 350  | 0.0046 U   |   | 0.0069 U  | 0.00041 J   | 0.00051 J   | 0.0046 U  |
| SW8260            | 156-59-2   | cis-1,2-Dichloroethene                                    | mg/kg | 500  | 0.0046 U   |   | 0.0069 U  | 0.0095 U  | 0.0067 U  | 0.0046 U  |
| SW8260            | 110-82-7   | Cyclohexane   | mg/kg |  | 0.00039 J  |   | 0.0069 U  | 0.0095 U  | 0.0067 U  | 0.0046 U  |
| SW8260            | 100-41-4   | Ethylbenzene  | mg/kg | 390  | 0.0046 U   |   | 0.0069 U  | 0.0095 U  | 0.0067 U  | 0.0046 U  |
| SW8260            | 98-82-8    | Isopropylbenzene  | mg/kg |  | 0.0046 U   |   | 0.0069 U  | 0.0095 U  | 0.0067 U  | 0.0046 U  |



TABLE 4 FOCUSED RI SITE 109 SOIL ANALYTICAL SUMMARY

|                   |             |                             |       |  | Location ID      | TP-01-2020                    | TP-04-2020                  | TP-05-2020                   | TP-05-2020                   | TP-05-2020                  |
|-------------------|-------------|-----------------------------|-------|--|------------------|-------------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|
|                   |             |                             |       |  | Field Sample ID  | TP-01-2020-10.0-10.6-09292020 | TP-04-2020-2.5-3.0-09302020 | TP-05-2020-0.0-0.16-09292020 | TP-05-2020-0.16-1.0-09292020 | TP-05-2020-3.0-4.0-09292020 |
|                   |             |                             |       |  | Start Depth (ft) | 10                            | 2.5                         | 0                            | 0.16                         | 3                           |
|                   |             |                             |       |  | End Depth (ft)   | 10.6                          | 3                           | 0.16                         | 1                            | 4                           |
|                   |             |                             |       |  | Sampled          | 9/29/2020                     | 9/30/2020                   | 9/29/2020                    | 9/29/2020                    | 9/29/2020                   |
|                   |             |                             |       |  | SDG              | R2009023                      | R2009132                    | R2009023                     | R2009023                     | R2009023                    |
|                   |             |                             |       |  | Lab Sample ID    | R2009023-005                  | R2009132-001                | R2009023-006                 | R2009023-007                 | R2009023-008                |
|                   |             |                             |       |  | Sample Type      | REG                           | REG                         | REG                          | REG                          | REG                         |
|                   |             |                             |       |  | Matrix           | SOIL                          | SOIL                        | SOIL                         | SOIL                         | SOIL                        |
| Analytical Method | CAS_RN      | Chemical Name               | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(4)</sup> |                  |                               |                             |                              |                              |                             |
| SW8260            | XYLENES1314 | m&p-Xylenes                 | mg/kg | 500  | 0.0091 U         | 0.014 U                       | 0.019 U                     | 0.013 U                      | 0.0092 U                     |                             |
| SW8260            | 79-20-9     | Methyl Acetate              | mg/kg |  | 0.00077 J        | 0.0069 U                      | 0.0095 U                    | 0.0067 U                     | 0.0046 U                     |                             |
| SW8260            | 108-87-2    | Methylcyclohexane           | mg/kg |  | 0.0046 U         | 0.0069 U                      | 0.0095 U                    | 0.0067 U                     | 0.0046 U                     |                             |
| SW8260            | 95-47-6     | o-Xylene                    | mg/kg | 500  | 0.0046 U         | 0.0069 U                      | 0.0095 U                    | 0.0067 U                     | 0.0046 U                     |                             |
| SW8260            | 100-42-5    | Styrene                     | mg/kg |  | 0.0046 U         | 0.0069 U                      | 0.0095 U                    | 0.0067 U                     | 0.0046 U                     |                             |
| SW8260            | 108-88-3    | Toluene                     | mg/kg | 500  | 0.00038 J        | 0.0069 U                      | 0.0095 U                    | 0.0067 U                     | 0.0046 U                     |                             |
| SW8260            | 1330-20-7   | Total Xylenes               | mg/kg | 500  | 0.0091 U         | 0.014 U                       | 0.019 U                     | 0.013 U                      | 0.0092 U                     |                             |
| SW8260            | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg | 500  | 0.0046 U         | 0.0069 U                      | 0.0095 U                    | 0.0067 U                     | 0.0046 U                     |                             |
| SW8260            | 79-01-6     | Trichloroethene             | mg/kg | 200  | 0.0064           | 0.0069 U                      | 0.0095 U                    | 0.0067 U                     | 0.0046 U                     |                             |
|                   |             | Semivolatiles               |       |  |                  |                               |                             |                              |                              |                             |
| SW8270            | 92-52-4     | 1,1'-Biphenyl               | mg/kg |  | 0.089 J          | 0.1                           | 0.053                       | 0.038 J                      | 0.037 U                      |                             |
| SW8270            | 105-67-9    | 2,4-Dimethylphenol          | mg/kg |  | 0.12 U           | 0.031 J                       | 0.046 U                     | 0.044 U                      | 0.037 U                      |                             |
| SW8270            | 91-57-6     | 2-Methylnaphthalene         | mg/kg |  | 0.3              | 0.52                          | 0.44                        | 0.34                         | 0.018                        |                             |
| SW8270            | 95-48-7     | 2-Methylphenol              | mg/kg | 500  | 0.12 U           | 0.033 J                       | 0.046 U                     | 0.044 U                      | 0.037 U                      |                             |
| SW8270            | 34METPH     | 3&4-Methylphenol            | mg/kg | 500  | 0.044 J          | 0.15                          | 0.02 J                      | 0.016 J                      | 0.037 U                      |                             |
| SW8270            | 100-52-7    | Benzaldehyde                | mg/kg |  | 0.12 U           | 0.043 U                       | 0.025 J                     | 0.02 J                       | 0.037 U                      |                             |
| SW8270            | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg |  | 2.2 U            | 0.42 J                        | 0.83 U                      | 0.8 U                        | 0.68 U                       |                             |
| SW8270            | 86-74-8     | Carbazole                   | mg/kg |  | 0.63 J+          | 0.4                           | 0.22                        | 0.16                         | 0.037 U                      |                             |
| SW8270            | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg |  | 1.8 UJ           | 0.052 J                       | 0.69 U                      | 0.66 U                       | 0.56 U                       |                             |
| SW8270            | 108-95-2    | Phenol                      | mg/kg | 500  | 0.033 J          | 0.047                         | 0.046 U                     | 0.044 U                      | 0.037 U                      |                             |
|                   |             | PAHs                        |       |  |                  |                               |                             |                              |                              |                             |
| SW8270            | 83-32-9     | Acenaphthene                | mg/kg | 500  | 0.46             | 0.59                          | 0.33                        | 0.22                         | 0.007 J                      |                             |
| SW8270            | 208-96-8    | Acenaphthylene              | mg/kg | 500  | 1.3              | 0.32                          | 0.14                        | 0.12                         | 0.0088                       |                             |
| SW8270            | 120-12-7    | Anthracene                  | mg/kg | 500  | 4.1              | 0.81                          | 0.38                        | 0.27                         | 0.025                        |                             |
| SW8270            | 56-55-3     | Benzo(A)Anthracene          | mg/kg | 5.6  | 7.5              | 2.4                           | 1.8                         | 1.2                          | 0.075                        |                             |
| SW8270            | 50-32-8     | Benzo(A)Pyrene              | mg/kg | 1  | 9.2              | 4.3                           | 3.5                         | 2.4                          | 0.11                         |                             |
| SW8270            | 205-99-2    | Benzo(B)Fluoranthene        | mg/kg | 5.6  | 9.3              | 4.1                           | 3.4                         | 2.2                          | 0.13                         |                             |
| SW8270            | 191-24-2    | Benzo(G,H,I)perylene        | mg/kg | 500  | 5.2              | 3.2                           | 2.7                         | 1.8                          | 0.088                        |                             |
| SW8270            | 207-08-9    | Benzo(K)Fluoranthene        | mg/kg | 56   | 3.3              | 1.4                           | 1.2                         | 0.85                         | 0.046                        |                             |
| SW8270            | 218-01-9    | Chrysene                    | mg/kg | 56   | 7.7              | 2.8                           | 2.3                         | 1.5                          | 0.092                        |                             |
| SW8270            | 53-70-3     | Dibenzo(a,h)Anthracene      | mg/kg | 0.56   | 0.91             | 0.52                          | 0.39                        | 0.27                         | 0.019                        |                             |
| SW8270            | 132-64-9    | Dibenzofuran                | mg/kg | 350  | 0.63             | 0.41                          | 0.18                        | 0.13                         | 0.013                        |                             |
| SW8270            | 206-44-0    | Fluoranthene                | mg/kg | 500  | 15               | 4.9                           | 3.7                         | 2.5                          | 0.13                         |                             |
| SW8270            | 86-73-7     | Fluorene                    | mg/kg | 500  | 0.94             | 0.47                          | 0.13                        | 0.091                        | 0.0083                       |                             |
| SW8270            | 193-39-5    | Indeno(1,2,3-Cd)Pyrene      | mg/kg | 5.6  | 6.2              | 3.5                           | 2.7                         | 1.9                          | 0.086                        |                             |
| SW8270            | 91-20-3     | Naphthalene                 | mg/kg | 500  | 0.88             | 1.2                           | 0.43                        | 0.3                          | 0.033                        |                             |
| SW8270            | 85-01-8     | Phenanthrene                | mg/kg | 500  | 9                | 3.3                           | 1.9                         | 1.2                          | 0.073                        |                             |
| SW8270            | 129-00-0    | Pyrene                      | mg/kg | 500  | 14               | 4.2                           | 3.1                         | 2.1                          | 0.13                         |                             |
|                   |             | Total PAHs <sup>(5)</sup>   | mg/kg | 500  | 96               | 38                            | 28                          | 19                           | 1.1                          |                             |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessmen of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.

(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs

TABLE 5 FOCUSED RI SITE 109 GROUNDWATER ANALYTICAL SUMMARY DECEMBER 2020

| Location Description   |            |                                       |      |                       | MW-01-2020<br>MW-01-2020<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code |   | MW-02-2020<br>MW-02-2020<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code |   | MW-03-2020<br>MW-03-2020<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code |   | MW-17-89<br>MW-17-89<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code |    |
|--|------------|---------------------------------------|------|-----------------------|---|---|---|---|---|---|---|----|
| Class GA<br>Groundwater<br>Quality Standard<br>or Guidance<br>Value <sup>(1)</sup> |            |                                       |      |                       | MW-01-2020-12312020<br>GW<br>R2100005-002<br>12/31/2020<br>REG                                      |   | MW-02-2020-12312020<br>GW<br>R2100005-003<br>12/31/2020<br>REG                                      |   | MW-03-2020-12312020<br>GW<br>R2100005-001<br>12/31/2020<br>REG                                      |   | MW-17-89-12302020<br>GW<br>R2012370-001<br>12/30/2020<br>REG                                    |    |
| Analytical Method  | CAS_RN     | Chemical Name                         | Unit |                       |   |   |   |   |   |   |   |    |
|  |            | PFAS                                  |      |                       |   |   |   |   |   |   |   |    |
| E537M  | 27619-97-2 | 6:2 Fluorotelomer Sulfonate (6:2 FTS) | ug/l | NS                    |   |   |   |   | 0.0047  | U | 0.00064   | J  |
| E537M  | 375-73-5   | Perfluorobutanesulfonic Acid (PFBS)   | ug/l | NS                    |   |   |   |   | 0.0047  | U | 0.0011  | J  |
| E537M  | 375-22-4   | Perfluorobutanoic Acid (PFBA)         | ug/l | NS                    |   |   |   |   | 0.015   |   | 0.019   |    |
| E537M  | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)       | ug/l | NS                    |   |   |   |   | 0.0029  | J | 0.0016  | J  |
| E537M  | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)  | ug/l | NS                    |   |   |   |   | 0.002   | J | 0.0016  | J  |
| E537M  | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)   | ug/l | 0.0027 <sup>(2)</sup> |   |   |   |   | 0.0015  | J | 0.0027  |    |
| E537M  | 335-67-1   | Perfluorooctanoic Acid (PFOA)         | ug/l | 0.0067 <sup>(2)</sup> |   |   |   |   | 0.0051  |   | 0.0029  |    |
| E537M  | 2706-90-3  | Perfluoropentanoic Acid (PFPeA)       | ug/l | NS                    |   |   |   |   | 0.0089  |   | 0.002   | J  |
|  |            | Metals                                |      |                       |   |   |   |   |   |   |   |    |
| SW6010   | 7429-90-5  | Aluminum                              | ug/l | NS                    | 152   |   | 370   |   |   |   | 100   | U  |
| SW6010   | 7440-38-2  | Arsenic                               | ug/l | 25                    | 10  | U | 10  | U |   |   | 11  |    |
| SW6010   | 7440-39-3  | Barium                                | ug/l | 1000                  | 55.3  |   | 92.3  |   |   |   | 54.3  |    |
| SW6010   | 7440-70-2  | Calcium                               | ug/l | NS                    | 275000  |   | 76800   |   |   |   | 128000  |    |
| SW6010   | 7440-47-3  | Chromium                              | ug/l | 50                    | 1.2   | J | 1.5   | J |   |   | 10  | U  |
| SW6010   | 7440-50-8  | Copper                                | ug/l | 200                   | 20  | U | 4   | J |   |   | 20  | U  |
| SW6010   | 7439-89-6  | Iron                                  | ug/l | 300                   | 187   |   | 373   |   |   |   | 1020  |    |
| SW6010   | 7439-95-4  | Magnesium                             | ug/l | 35000 <sup>(2)</sup>  | 83300   |   | 13900   |   |   |   | 28700   |    |
| SW6010   | 7439-96-5  | Manganese                             | ug/l | 300                   | 83.5  |   | 41.9  |   |   |   | 632   |    |
| SW6010   | 7440-09-7  | Potassium                             | ug/l | NS                    | 7550  |   | 7070  |   |   |   | 5810  |    |
| SW6010   | 7782-49-2  | Selenium                              | ug/l | 10                    | 10  | U | 8.3   | J |   |   | 10  | U  |
| SW6010   | 7440-23-5  | Sodium                                | ug/l | 20000                 | 467000  |   | 31900   |   |   |   | 82900   |    |
| SW6010   | 7440-28-0  | Thallium                              | ug/l | 0.5 <sup>(2)</sup>    | 9   | J | 10  | U |   |   | 10  | U  |
| SW6010   | 7440-62-2  | Vanadium                              | ug/l | NS                    | 1.5   | J | 3.3   | J |   |   | 50  | U  |
|  |            | PESTICIDES                            |      |                       |   |   |   |   |   |   |   |    |
|  |            | PCBS                                  |      |                       |   |   |   |   |   |   |   |    |
| SW8082   | 12672-29-6 | Aroclor-1248                          | ug/l | 0.09 <sup>(3)</sup>   | 0.05  | U | 0.091   |   |   |   | 0.051   | UJ |
|  |            | Volatiles                             |      |                       |   |   |   |   |   |   |   |    |
| SW8260   | 75-15-0    | Carbon Disulfide                      | ug/l | 60                    | 1   | U | 1   | U | 0.42  | J | 1   | U  |
| SW8260   | 156-59-2   | cis-1,2-Dichloroethene                | ug/l | 5                     | 1   | U | 1   | U | 1.1   |   | 1   | U  |
| SW8260   | 156-60-5   | trans-1,2-Dichloroethene              | ug/l | 5                     | 1   | U | 1   | U | 0.97  | J | 1   | U  |
| SW8260   | 79-01-6    | Trichloroethene                       | ug/l | 5                     | 1   | U | 1   | U | 0.75  | J | 1   | U  |
|  |            | Semivolatiles                         |      |                       |   |   |   |   |   |   |   |    |
| SW8270   | 56-55-3    | Benzo(A)Anthracene                    | ug/l | 0.002 <sup>(2)</sup>  | 0.27  |   | 0.2   | U | 0.21  | U | 0.2   | U  |
| SW8270   | 50-32-8    | Benzo(A)Pyrene                        | ug/l | ND                    | 0.35  |   | 0.2   | U | 0.21  | U | 0.2   | U  |
| SW8270   | 205-99-2   | Benzo(B)Fluoranthene                  | ug/l | 0.002 <sup>(2)</sup>  | 0.38  |   | 0.2   | U | 0.21  | U | 0.2   | U  |
| SW8270   | 191-24-2   | Benzo(G,H,I)perylene                  | ug/l | NS                    | 0.31  |   | 0.2   | U | 0.21  | U | 0.2   | U  |
| SW8270   | 207-08-9   | Benzo(K)Fluoranthene                  | ug/l | 0.002 <sup>(2)</sup>  | 0.16  | J | 0.2   | U | 0.21  | U | 0.2   | U  |
| SW8270   | 218-01-9   | Chrysene                              | ug/l | 0.002 <sup>(2)</sup>  | 0.24  |   | 0.2   | U | 0.21  | U | 0.2   | U  |

TABLE 5 FOCUSED RI SITE 109 GROUNDWATER ANALYTICAL SUMMARY DECEMBER 2020

|                   |          |                        |      | Location Description<br>Location ID<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code | MW-01-2020<br>MW-01-2020<br>MW-01-2020-12312020<br>GW<br>R2100005-002<br>12/31/2020<br>REG | MW-02-2020<br>MW-02-2020<br>MW-02-2020-12312020<br>GW<br>R2100005-003<br>12/31/2020<br>REG | MW-03-2020<br>MW-03-2020<br>MW-03-2020-12312020<br>GW<br>R2100005-001<br>12/31/2020<br>REG | MW-17-89<br>MW-17-89<br>MW-17-89-12302020<br>GW<br>R2012370-001<br>12/30/2020<br>REG |
|-------------------|----------|------------------------|------|--|--|--|--|--|
| Analytical Method | CAS_RN   | Chemical Name          | Unit | Class GA<br>Groundwater<br>Quality Standard<br>or Guidance<br>Value <sup>(1)</sup>                             |  |  |  |  |
| SW8270            | 206-44-0 | Fluoranthene           | ug/l | 50 <sup>(2)</sup>  | 0.33   |  | 0.2 U  | 0.21 U   |
| SW8270            | 193-39-5 | Indeno(1,2,3-Cd)Pyrene | ug/l | 0.002 <sup>(2)</sup>   | 0.27   |  | 0.2 U  | 0.21 U   |
| SW8270            | 85-01-8  | Phenanthrene           | ug/l | 50   | 0.21   |  | 0.2 U  | 0.21 U   |
| SW8270            | 129-00-0 | Pyrene                 | ug/l | 50 <sup>(2)</sup>  | 0.34   |  | 0.2 U  | 0.21 U   |
| SW8270-SIM        | 123-91-1 | 1,4-Dioxane            | ug/l | 0.35 <sup>(2)</sup>  | 0.046  |  | 0.04 U   |  |
|                   |          | Cyanide                |      |  |  |  |  |  |
| SW9012            | 57-12-5  | Cyanide, Total         | ug/l | 200  | 11   |  | 18   | 42   |

(1) Unless otherwise noted, groundwater criteria obtained from the NYSDEC document titled, "Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations," June 1998; Errata Sheet for June 1998 Edition. Criteria listed are standards unless otherwise noted.

(2) Guidance value (from TOGS 1.1.1)

(3) Applies to the sum of these substances.

Only detected compounds are presented

Shaded: Value exceeds standard or guidance value

U: Compound not detected at provided detection limit

J: Estimated at given value

NS: No standard established

TABLE 6 FOCUSED RI SITE 109 GROUNDWATER ANALYTICAL SUMMARY SEPTEMBER 2021

| Location Description<br>Location ID<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code |           |                          |          |      |  | MW-01-2020<br>MW-01-2020<br>MW-01-2020-09242021<br>GW<br>R2110067-005/R2110067-006<br>9/24/2021<br>REG | MW-02-2020<br>MW-02-2020<br>MW-02-2020-09242021<br>GW<br>R2110067-003/R2110067-004<br>9/24/2021<br>REG | MW-03-2020<br>MW-03-2020<br>MW-03-2020-09242021<br>GW<br>R2110067-001/R2110067-002<br>9/24/2021<br>REG | MW-17-89<br>MW-17-89<br>MW-17-89-09212021<br>GW<br>R2109811-001/R2109811-002<br>9/21/2021<br>REG |
|--|-----------|--------------------------|----------|------|--|--|--|--|--|
| Analytical Method  | CAS_RN    | Chemical Name            | FRACTION | Unit | Class GA<br>Groundwater<br>Quality Standard<br>or Guidance<br>Value <sup>(1)</sup> |  |  |  |  |
| Metals - Totals  |           |                          |          |      |  |  |  |  |  |
| SW6010   | 7429-90-5 | Aluminum                 | T        | ug/l | NS   | 95.8 J   | 29.4 J   | 805  | 100 U  |
| SW6010   | 7440-36-0 | Antimony                 | T        | ug/l | 3  | 60 U   | 60 U   | 60 U   | 60 U   |
| SW6010   | 7440-38-2 | Arsenic                  | T        | ug/l | 25   | 10 U   | 10 U   | 10 U   | 23   |
| SW6010   | 7440-39-3 | Barium                   | T        | ug/l | 1000   | 42.1   | 70.1   | 39.4   | 74.1   |
| SW6010   | 7440-70-2 | Calcium                  | T        | ug/l | NS   | 105000   | 96300  | 320000   | 143000   |
| SW6010   | 7440-47-3 | Chromium                 | T        | ug/l | 50   | 3 J  | 10 U   | 2.7 J  | 10 U   |
| SW6010   | 7440-48-4 | Cobalt                   | T        | ug/l | NS   | 50 U   | 50 U   | 50 U   | 1 J  |
| SW6010   | 7440-50-8 | Copper                   | T        | ug/l | 200  | 20 U   | 20 U   | 20 U   | 5.4 J  |
| SW6010   | 7439-89-6 | Iron                     | T        | ug/l | 300  | 194  | 100 U  | 2200   | 1810   |
| SW6010   | 7439-95-4 | Magnesium                | T        | ug/l | 35000 <sup>(2)</sup>   | 12600  | 159000   | 414000   | 29700  |
| SW6010   | 7439-96-5 | Manganese                | T        | ug/l | 300  | 4.5 J  | 106  | 377  | 823  |
| SW6010   | 7440-09-7 | Potassium                | T        | ug/l | NS   | 2700   | 5350   | 3360   | 8260   |
| SW6010   | 7440-23-5 | Sodium                   | T        | ug/l | 20000  | 245000   | 87400  | 193000   | 82600  |
| SW6010   | 7440-28-0 | Thallium                 | T        | ug/l | 0.5 <sup>(2)</sup>   | 10 U   | 10 U   | 9 J  | 10 U   |
| SW6010   | 7440-62-2 | Vanadium                 | T        | ug/l | NS   | 1.9 J  | 2.3 J  | 2.3 J  | 1 J  |
| SW6010   | 7440-66-6 | Zinc                     | T        | ug/l | 2000 <sup>(2)</sup>  | 20 U   | 20 U   | 5.3 J  | 4.6 J  |
| Metals - Dissolved   |           |                          |          |      |  |  |  |  |  |
| SW6010   | 7429-90-5 | Aluminum                 | D        |      | NS   | 100 U  | 100 U  | 100 U  | 100 U  |
| SW6010   | 7440-36-0 | Antimony                 | D        | ug/l | 3  | 10.5 J   | 60 U   | 60 U   | 60 U   |
| SW6010   | 7440-38-2 | Arsenic                  | D        | ug/l | 25   | 10 U   | 10 U   | 10 U   | 23   |
| SW6010   | 7440-39-3 | Barium                   | D        | ug/l | 1000   | 47.1   | 69.8   | 27.5   | 73   |
| SW6010   | 7440-70-2 | Calcium                  | D        | ug/l | NS   | 124000   | 94500  | 382000   | 140000   |
| SW6010   | 7440-47-3 | Chromium                 | D        | ug/l | 50   | 2.6 J  | 10 U   | 10 U   | 10 U   |
| SW6010   | 7440-48-4 | Cobalt                   | D        | ug/l | NS   | 50 U   | 0.9 J  | 1.4 J  | 0.9 J  |
| SW6010   | 7440-50-8 | Copper                   | D        | ug/l | 200  | 20 U   | 20 U   | 20 U   | 20 U   |
| SW6010   | 7439-89-6 | Iron                     | D        | ug/l | 300  | 100 U  | 61.4 J   | 1990   | 1800   |
| SW6010   | 7439-95-4 | Magnesium                | D        | ug/l | 35000 <sup>(2)</sup>   | 15800  | 156000   | 514000   | 29000  |
| SW6010   | 7439-96-5 | Manganese                | D        | ug/l | 300  | 10 U   | 176  | 688  | 811  |
| SW6010   | 7440-09-7 | Potassium                | D        | ug/l | NS   | 2770   | 5260   | 4230   | 8130   |
| SW6010   | 7440-23-5 | Sodium                   | D        | ug/l | 20000  | 264000   | 86500  | 191000   | 81700  |
| SW6010   | 7440-28-0 | Thallium                 | D        | ug/l | 0.5 <sup>(2)</sup>   | 10 U   | 10 U   | 13.1   | 10 U   |
| SW6010   | 7440-62-2 | Vanadium                 | D        | ug/l | NS   | 1.7 J  | 2.6 J  | 0.8 J  | 0.9 J  |
| SW6010   | 7440-66-6 | Zinc                     | D        | ug/l | 2000 <sup>(2)</sup>  | 20 U   | 2.7 J  | 3.6 J  | 20 U   |
| PCBS - Total   |           |                          |          |      |  |  |  |  |  |
| PCBS - Dissolved   |           |                          |          |      |  |  |  |  |  |
| Volatiles  |           |                          |          |      |  |  |  |  |  |
| SW8260   | 75-15-0   | Carbon Disulfide         | T        | ug/l | 60   | 1 U  | 1 U  | 3  | 1 U  |
| SW8260   | 156-59-2  | cis-1,2-Dichloroethene   | T        | ug/l | 5  | 1 U  | 1 U  | 1.4  | 1 U  |
| SW8260   | 156-60-5  | trans-1,2-Dichloroethene | T        | ug/l | 5  | 1 U  | 1 U  | 0.58 J   | 1 U  |
| SW8260   | 79-01-6   | Trichloroethene          | T        | ug/l | 5  | 1 U  | 1 U  | 0.76 J   | 1 U  |

TABLE 6 FOCUSED RI SITE 109 GROUNDWATER ANALYTICAL SUMMARY SEPTEMBER 2021

| Location Description<br>Location ID<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code |          |   |          |      |  | MW-01-2020<br>MW-01-2020<br>MW-01-2020-09242021<br>GW<br>R2110067-005/R2110067-006<br>9/24/2021<br>REG | MW-02-2020<br>MW-02-2020<br>MW-02-2020-09242021<br>GW<br>R2110067-003/R2110067-004<br>9/24/2021<br>REG | MW-03-2020<br>MW-03-2020<br>MW-03-2020-09242021<br>GW<br>R2110067-001/R2110067-002<br>9/24/2021<br>REG | MW-17-89<br>MW-17-89<br>MW-17-89-09212021<br>GW<br>R2109811-001/R2109811-002<br>9/21/2021<br>REG |
|--|----------|---|----------|------|--|--|--|--|--|
| Analytical Method  | CAS_RN   | Chemical Name                                   | FRACTION | Unit | Class GA<br>Groundwater<br>Quality Standard<br>or Guidance<br>Value <sup>(1)</sup> |  |  |  |  |
| SW8270   | 91-20-3  | Semivolatiles - Total<br>Naphthalene            | T        | ug/l | 10 <sup>(2)</sup>  | 0.2  | U  | 0.2  | U  |
| SW8270   | 120-83-2 | Semivolatiles - Dissolved<br>2,4-Dichlorophenol | D        | ug/l | NS   | 1  |  | 0.97   | U  |
| SW9012   | 57-12-5  | Cyanide - Total<br>Cyanide, Total               | T        | ug/l | 200  | 11   | 38   | 10   | U  |
| SW9012   | 57-12-5  | Cyanide - Dissolved<br>Cyanide                  | D        | ug/l | 200  | 12   | 36   | 10   | U  |

(1) Unless otherwise noted, groundwater criteria obtained from the NYSDEC document titled, "Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations," June 1998; Errata Sheet for June 1998 Edition. Criteria listed are standards unless otherwise noted.

(2) Guidance value (from TOGS 1.1.1)

Only detected compounds are presented

Shaded: Value exceeds standard or guidance value  
 U: Compound not detected at provided detection limit  
 J: Estimated at given value  
 NS: No standard established

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |            |   |       | Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>SDG<br>Lab Sample ID<br>Sample Type<br>Matrix | MW-04-2020<br>MW-04-2020-0.0-0.16-10162020<br>0<br>0.16<br>10/16/2020<br>R2009746<br>R2009746-012<br>REG<br>SOIL | MW-04-2020<br>MW-04-2020-0.16-1.0-10162020<br>0.16<br>1<br>10/16/2020<br>R2009746<br>R2009746-013<br>REG<br>SOIL | MW-04-2020<br>MW-04-2020-0.0-6.0-10162020<br>4<br>6<br>10/16/2020<br>R2009746<br>R2009746-015<br>REG<br>SOIL | MW-05-2020<br>MW-05-2020-0.0-0.16-10152020<br>0<br>0.16<br>10/15/2020<br>R2009746<br>R2009746-001<br>REG<br>SOIL | MW-05-2020<br>MW-05-2020-0.16-1.0-10152020<br>0.16<br>1<br>10/15/2020<br>R2009746<br>R2009746-002<br>REG<br>SOIL |
|-------------------|------------|---|-------|--|--|--|--|--|--|
| Analytical Method | CAS_RN     | Chemical Name   | Unit  | Soil Cleanup<br>Objective (SCO) for<br>Commercial Use <sup>(1)</sup>   |  |  |  |  |  |
| E160.3            | SOLID      | Solids  | %     |  | 83.2   | 84.6   | 84.1   | 86.4   | 84.4   |
| E160.3            | SOLIDS     | Total Solids  | %     |  |  |  |  |  |  |
|                   |            | PFAS  |       |  |  |  |  |  |  |
| E537M             | 2991-50-6  | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg |  | 0.0011 U   | 0.0012 U   | 0.0011 U   | 0.00031 J  | 0.0011 U   |
| E537M             | 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | mg/kg |  | 0.0011 U   | 0.0012 U   | 0.0011 U   | 0.0011 U   | 0.0011 U   |
| E537M             | 335-76-2   | Perfluorodecanoic acid (PFDA)                             | mg/kg |  | 0.0011 U   | 0.0012 U   | 0.0011 U   | 0.0011 U   | 0.0011 U   |
| E537M             | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg |  | 0.0011 U   | 0.0012 U   | 0.0011 U   | 0.0011 U   | 0.0011 U   |
| E537M             | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg |  | 0.0011 U   | 0.00074 J  | 0.0011 U   | 0.0011 U   | 0.0011 U   |
| E537M             | 375-95-1   | Perfluorononanoic Acid (PFNA)                             | mg/kg |  | 0.0011 U   | 0.0012 U   | 0.0011 U   | 0.0011 U   | 0.0011 U   |
| E537M             | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   | 0.00019 J  | 0.0002 J   | 0.00029 J  | 0.00039 J  | 0.0003 J   |
| E537M             | 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   | 0.0011 U   | 0.0012 U   | 0.0011 U   | 0.0011 U   | 0.0011 U   |
| E537M             | 376-06-7   | Perfluorotetradecanoic Acid (PFTeDA)                      | mg/kg |  | 0.0011 U   | 0.0012 U   | 0.0011 U   | 0.0011 U   | 0.0011 U   |
| E537M             | 2058-94-8  | Perfluoroundecanoic Acid (PFunda)                         | mg/kg |  | 0.0011 U   | 0.0012 U   | 0.0011 U   | 0.0011 U   | 0.0011 U   |
|                   |            | Metals and Cyanide  |       |  |  |  |  |  |  |
| SW6010            | 7429-90-5  | Aluminum  | mg/kg |  | 3020   | 2870   | 3830   | 2750   | 2870   |
| SW6010            | 7440-36-0  | Antimony  | mg/kg |  | 0.797 J  | 6.7 U  | 6.5 U  | 6.8 U  | 7 U  |
| SW6010            | 7440-38-2  | Arsenic   | mg/kg | 16   | 9.1  | 15.1   | 7.6  | 8.5 J  | 8.3  |
| SW6010            | 7440-39-3  | Barium  | mg/kg | 400  | 61.9   | 73   | 80.7   | 58.3   | 74.6   |
| SW6010            | 7440-41-7  | Beryllium   | mg/kg | 590  | 0.451  | 0.524  | 0.508  | 0.726  | 0.802  |
| SW6010            | 7440-43-9  | Cadmium   | mg/kg | 9.3  | 0.543 J  | 1.4  | 0.886  | 0.669  | 0.616  |
| SW6010            | 7440-70-2  | Calcium   | mg/kg |  | 6020   | 4560   | 13100  | 3990   | 5360   |
| SW6010            | 7440-47-3  | Chromium <sup>(3)</sup>                                   | mg/kg | 400  | 12.7   | 22.6   | 16   | 16.6   | 11.5   |
| SW6010            | 7440-48-4  | Cobalt  | mg/kg |  | 4.2 J  | 4.9 J  | 4.1 J  | 13.6   | 9.6  |
| SW6010            | 7440-50-8  | Copper  | mg/kg | 270  | 36.9   | 49.8   | 31.5   | 103 J  | 77.9   |
| SW6010            | 7439-89-6  | Iron  | mg/kg |  | 16400  | 51000  | 17600  | 26600  | 20400  |
| SW6010            | 7439-92-1  | Lead  | mg/kg | 1000   | 41.2   | 130  | 69.8   | 20.1   | 15.6   |
| SW6010            | 7439-95-4  | Magnesium   | mg/kg |  | 1810   | 1340   | 2290   | 444 J  | 491  |
| SW6010            | 7439-96-5  | Manganese   | mg/kg | 10000  | 172  | 306  | 252  | 362  | 266  |
| SW6010            | 7440-02-0  | Nickel  | mg/kg | 310  | 13.9   | 20.7   | 12.5   | 30   | 19.4   |
| SW6010            | 7440-09-7  | Potassium   | mg/kg |  | 462  | 422  | 625  | 358  | 398  |
| SW6010            | 7782-49-2  | Selenium  | mg/kg | 1500   | 0.878 J  | 11.2 U   | 10.8 U   | 0.828 J  | 0.813 J  |
| SW6010            | 7440-22-4  | Silver  | mg/kg | 1500   | 1.2 U  | 1.1 U  | 1.1 U  | 1.1 U  | 1.2 U  |
| SW6010            | 7440-23-5  | Sodium  | mg/kg |  | 90.7 J   | 109 J  | 117  | 103 J  | 90.6 J   |
| SW6010            | 7440-28-0  | Thallium  | mg/kg |  | 1.2 U  | 1.1 U  | 1.1 U  | 1.1 U  | 1.2 U  |
| SW6010            | 7440-62-2  | Vanadium  | mg/kg |  | 15.6   | 38.3   | 12.2   | 15.1   | 11.9   |
| SW6010            | 7440-66-6  | Zinc  | mg/kg | 10000  | 106  | 205  | 264  | 44.2   | 27.5   |
| SW7471            | 7439-97-6  | Mercury   | mg/kg | 2.8  | 0.828  | 0.63   | 0.216  | 0.137  | 0.097  |
| SW9012            | 57-12-5    | Cyanide, Total  | mg/kg | 27   | 2.36   | 3.18   | 2.37   | 2.03   | 1.44   |
|                   |            | Pesticides  |       |  |  |  |  |  |  |
| SW8081            | 72-54-8    | 4,4'-DDD  | mg/kg | 92   | 0.01 U   | 0.01 U   | 0.0052 J   | 0.0099 U   | 0.012 U  |
| SW8081            | 50-29-3    | 4,4'-DDT  | mg/kg | 47   | 0.01 U   | 0.01 U   | 0.0099 U   | 0.0099 U   | 0.012 U  |
| SW8081            | 309-00-2   | Aldrin  | mg/kg | 0.68   | 0.01 U   | 0.01 U   | 0.0099 U   | 0.0099 U   | 0.012 U  |
| SW8081            | 319-84-6   | Alpha-BHC   | mg/kg | 3.4  | 0.01 U   | 0.01 U   | 0.0099 U   | 0.0099 U   | 0.012 U  |
| SW8081            | 319-85-7   | Beta-BHC  | mg/kg | 3  | 0.01 U   | 0.01 U   | 0.0099 U   | 0.0099 U   | 0.012 U  |
| SW8081            | 959-98-8   | Endosulfan (4)  | mg/kg | 200  | 0.0052 J   | 0.0067 J   | 0.0099 U   | 0.0099 U   | 0.012 U  |
| SW8081            | 1031-07-8  | Endosulfan Sulfate <sup>(4)</sup>                         | mg/kg | 200  | 0.068  | 0.056  | 0.028  | 0.0099 U   | 0.012 U  |
| SW8081            | 72-20-8    | Endrin  | mg/kg | 89   | 0.011  | 0.0074 J   | 0.0099 U   | 0.0099 U   | 0.012 U  |
| SW8081            | 7421-93-4  | Endrin Aldehyde   | mg/kg |  | 0.01 U   | 0.01 U   | 0.0099 U   | 0.0099 U   | 0.012 U  |
| SW8081            | 53494-70-5 | Endrin Ketone   | mg/kg |  | 0.01 U   | 0.01 U   | 0.0099 U   | 0.0099 U   | 0.012 U  |
| SW8081            | 5566-34-7  | Gamma-Chlordane   | mg/kg |  | 0.006 J  | 0.0056 J   | 0.0052 J   | 0.0099 U   | 0.012 U  |
| SW8081            | 1024-57-3  | Heptachlor Epoxide  | mg/kg |  | 0.01 U   | 0.01 U   | 0.0099 U   | 0.0099 U   | 0.012 U  |
| SW8081            | 72-43-5    | Methoxychlor  | mg/kg |  | 0.01 U   | 0.01 U   | 0.0099 U   | 0.0099 U   | 0.012 U  |



TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |             | Location ID                 |       | MW-04-2020   |          | MW-04-2020                   |           | MW-04-2020                   |         | MW-05-2020                   |  | MW-05-2020                   |  |
|-------------------|-------------|-----------------------------|-------|--|----------|------------------------------|-----------|------------------------------|---------|------------------------------|--|------------------------------|--|
|                   |             | Field Sample ID             |       | MW-04-2020-0.0-0.16-10162020                                   |          | MW-04-2020-0.16-1.0-10162020 |           | MW-04-2020-0.16-6.0-10162020 |         | MW-05-2020-0.0-0.16-10152020 |  | MW-05-2020-0.16-1.0-10152020 |  |
|                   |             | Start Depth (ft)            |       | 0  |          | 0.16                         |           | 4                            |         | 0                            |  | 0.16                         |  |
|                   |             | End Depth (ft)              |       | 0.16   |          | 1                            |           | 6                            |         | 0.16                         |  | 1                            |  |
|                   |             | Sampled                     |       | 10/16/2020   |          | 10/16/2020                   |           | 10/16/2020                   |         | 10/15/2020                   |  | 10/15/2020                   |  |
|                   |             | SDG                         |       | R2009746   |          | R2009746                     |           | R2009746                     |         | R2009746                     |  | R2009746                     |  |
|                   |             | Lab Sample ID               |       | R2009746-012   |          | R2009746-013                 |           | R2009746-015                 |         | R2009746-001                 |  | R2009746-002                 |  |
|                   |             | Sample Type                 |       | REG  |          | REG                          |           | REG                          |         | REG                          |  | REG                          |  |
|                   |             | Matrix                      |       | SOIL   |          | SOIL                         |           | SOIL                         |         | SOIL                         |  | SOIL                         |  |
| Analytical Method | CAS_RN      | Chemical Name               | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |          |                              |           |                              |         |                              |  |                              |  |
|                   |             | PCBs                        |       |  |          |                              |           |                              |         |                              |  |                              |  |
| SW8082            | 12672-29-6  | Aroclor-1248                | mg/kg | 1  | 0.13     |                              | 0.04 U    | 0.039 U                      | 0.039 U | 0.039 U                      |  | 0.046 U                      |  |
| SW8082            | 11097-69-1  | Aroclor-1254                | mg/kg | 1  | 0.068    |                              | 0.04 U    | 0.039 U                      | 0.039 U | 0.039 U                      |  | 0.046 U                      |  |
| SW8082            | 11096-82-5  | Aroclor-1260                | mg/kg | 1  | 0.11     |                              | 0.032 J   | 0.039 U                      | 0.039 U | 0.039 U                      |  | 0.046 U                      |  |
|                   |             | Total PCBs <sup>(B)</sup>   |       | 1  | 0.31     |                              | 0.032 J   | 0.039 U                      | 0.039 U | 0.039 U                      |  | 0.046 U                      |  |
|                   |             | Volatiles                   |       |  |          |                              |           |                              |         |                              |  |                              |  |
| SW8260            | 71-55-6     | 1,1,1-Trichloroethane       | mg/kg | 500  | 0.0018 J |                              | 0.0046 J  | 0.0072 U                     |         | 0.011 U                      |  | 0.013 U                      |  |
| SW8260            | 75-34-3     | 1,1-Dichloroethane          | mg/kg | 240  | 0.0094 U |                              | 0.00053 J | 0.0072 U                     |         | 0.011 U                      |  | 0.013 U                      |  |
| SW8260            | 78-93-3     | 2-Butanone                  | mg/kg | 500  | 0.0094 U |                              | 0.0083 U  | 0.0053 J                     |         | 0.011 U                      |  | 0.0059 J                     |  |
| SW8260            | 67-64-1     | Acetone                     | mg/kg | 500  | 0.0094 U |                              | 0.0083 U  | 0.1 J+                       |         | 0.015 U                      |  | 0.06                         |  |
| SW8260            | 71-43-2     | Benzene                     | mg/kg | 44   | 0.0015 J |                              | 0.0058 J  | 0.00076 J                    |         | 0.011 U                      |  | 0.013 U                      |  |
| SW8260            | 74-83-9     | Bromomethane                | mg/kg |  | 0.0094 U |                              | 0.0083 U  | 0.0072 U                     |         | 0.0079 J                     |  | 0.013 U                      |  |
| SW8260            | 75-15-0     | Carbon Disulfide            | mg/kg |  | 0.0094 U |                              | 0.0083 U  | 0.14 J+                      |         | 0.00077 J                    |  | 0.00085 J                    |  |
| SW8260            | 67-66-3     | Chloroform                  | mg/kg | 350  | 0.0094 U |                              | 0.0083 U  | 0.0072 U                     |         | 0.011 U                      |  | 0.013 U                      |  |
| SW8260            | 74-87-3     | Chloromethane               | mg/kg |  | 0.0094 U |                              | 0.0083 U  | 0.0072 U                     |         | 0.005 J                      |  | 0.013 U                      |  |
| SW8260            | 156-59-2    | cis-1,2-Dichloroethene      | mg/kg | 500  | 0.0094 U |                              | 0.0083 U  | 0.0072 U                     |         | 0.0013 J                     |  | 0.013 U                      |  |
| SW8260            | 110-82-7    | Cyclohexane                 | mg/kg |  | 0.0016 J |                              | 0.0033 J  | 0.0088 J+                    |         | 0.002 J                      |  | 0.0035 J                     |  |
| SW8260            | 100-41-4    | Ethylbenzene                | mg/kg | 390  | 0.0094 U |                              | 0.0083 U  | 0.0072 U                     |         | 0.011 U                      |  | 0.013 U                      |  |
| SW8260            | 98-82-8     | Isopropylbenzene            | mg/kg |  | 0.0094 U |                              | 0.0083 U  | 0.0072 U                     |         | 0.011 U                      |  | 0.013 U                      |  |
| SW8260            | XYLENES1314 | m&p-Xylenes                 | mg/kg | 500  | 0.019 U  |                              | 0.0018 J  | 0.00077 J                    |         | 0.022 U                      |  | 0.0016 J                     |  |
| SW8260            | 79-20-9     | Methyl Acetate              | mg/kg |  | 0.0094 U |                              | 0.0083 U  | 0.0072 U                     |         | 0.011 U                      |  | 0.013 U                      |  |
| SW8260            | 1634-04-4   | Methyl Tert-Butyl Ether     | mg/kg | 500  | 0.0094 U |                              | 0.0083 U  | 0.0072 U                     |         | 0.011 U                      |  | 0.013 U                      |  |
| SW8260            | 108-87-2    | Methylcyclohexane           | mg/kg |  | 0.0019 J |                              | 0.0039 J  | 0.011 J+                     |         | 0.0041 J                     |  | 0.0072 J                     |  |
| SW8260            | 75-09-2     | Methylene Chloride          | mg/kg | 500  | 0.0094 U |                              | 0.0083 U  | 0.0072 U                     |         | 0.011 U                      |  | 0.013 U                      |  |
| SW8260            | 95-47-6     | o-Xylene                    | mg/kg | 500  | 0.0094 U |                              | 0.00056 J | 0.00079 J                    |         | 0.011 U                      |  | 0.0011 J                     |  |
| SW8260            | 100-42-5    | Styrene                     | mg/kg |  | 0.0094 U |                              | 0.0083 U  | 0.0072 U                     |         | 0.011 U                      |  | 0.013 U                      |  |
| SW8260            | 108-88-3    | Toluene                     | mg/kg | 500  | 0.0011 J |                              | 0.0051 J  | 0.00072 J                    |         | 0.0013 J                     |  | 0.0016 J                     |  |
| SW8260            | 1330-20-7   | Total Xylenes               | mg/kg | 500  | 0.019 U  |                              | 0.0024 J  | 0.0016 J                     |         | 0.022 U                      |  | 0.0027 J                     |  |
| SW8260            | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg | 500  | 0.0094 U |                              | 0.0083 U  | 0.0072 U                     |         | 0.002 J                      |  | 0.013 U                      |  |
| SW8260            | 79-01-6     | Trichloroethene             | mg/kg | 200  | 0.0094 U |                              | 0.0083 U  | 0.0072 U                     |         | 0.00079 J                    |  | 0.013 U                      |  |
|                   |             | Semivolatiles               |       |  |          |                              |           |                              |         |                              |  |                              |  |
| SW8270            | 92-52-4     | 1,1'-Biphenyl               | mg/kg |  | 0.41     |                              | 1.8       | 0.46                         |         | 0.12 J                       |  | 0.14 J                       |  |
| SW8270            | 105-67-9    | 2,4-Dimethylphenol          | mg/kg |  | 0.2 U    |                              | 0.2 J     | 0.12 J                       |         | 0.19 U                       |  | 0.04 U                       |  |
| SW8270            | 91-57-6     | 2-Methylnaphthalene         | mg/kg |  | 1.6      |                              | 6.8       | 1.9                          |         | 0.75                         |  | 0.48                         |  |
| SW8270            | 95-48-7     | 2-Methylphenol              | mg/kg | 500  | 0.2 U    |                              | 0.15 J    | 0.097 J                      |         | 0.19 U                       |  | 0.04 U                       |  |
| SW8270            | 34METPH     | 3&4-Methylphenol            | mg/kg | 500  | 0.12 J   |                              | 0.41      | 0.33                         |         | 0.19 U                       |  | 0.021 J                      |  |
| SW8270            | 100-01-6    | 4-Nitroaniline              | mg/kg |  | 0.2 U    |                              | 0.4 U     | 0.2 U                        |         | 0.19 U                       |  | 0.04 U                       |  |
| SW8270            | 98-86-2     | Acetophenone                | mg/kg |  | 0.2 U    |                              | 0.14 J    | 0.2 U                        |         | 0.19 U                       |  | 0.04 U                       |  |
| SW8270            | 100-52-7    | Benzaldehyde                | mg/kg |  | 0.2 U    |                              | 0.4 U     | 0.2 U                        |         | 0.22                         |  | 0.12 J                       |  |
| SW8270            | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg |  | 3.7 U    |                              | 7.3 U     | 3.7 U                        |         | 3.4 U                        |  | 0.73 U                       |  |
| SW8270            | 86-74-8     | Carbazole                   | mg/kg |  | 2.1      |                              | 36        | 10                           |         | 0.34                         |  | 0.29 J                       |  |
| SW8270            | 84-66-2     | Diethyl Phthalate           | mg/kg |  | 1.2 U    |                              | 2.4 U     | 1.2 U                        |         | 1.1 U                        |  | 0.24 U                       |  |
| SW8270            | 131-11-3    | Dimethyl Phthalate          | mg/kg |  | 1.1 U    |                              | 2.1 U     | 1 U                          |         | 0.98 U                       |  | 0.21 U                       |  |
| SW8270            | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg |  | 3.1 U    |                              | 6.1 U     | 3.1 U                        |         | 2.9 U                        |  | 0.61 U                       |  |
| SW8270            | 86-30-6     | n-Nitrosodiphenylamine      | mg/kg |  | 0.2 U    |                              | 0.4 U     | 0.2 U                        |         | 0.19 U                       |  | 0.04 U                       |  |
| SW8270            | 108-95-2    | Phenol                      | mg/kg | 500  | 0.083 J  |                              | 0.35 J    | 0.29                         |         | 0.19 U                       |  | 0.04 U                       |  |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |          | Location ID               |       | MW-04-2020   |     | MW-04-2020                   |      | MW-04-2020                  |      | MW-05-2020                   |  | MW-05-2020                   |  |
|-------------------|----------|---------------------------|-------|--|-----|------------------------------|------|-----------------------------|------|------------------------------|--|------------------------------|--|
|                   |          | Field Sample ID           |       | MW-04-2020-0.0-0.16-10162020                                   |     | MW-04-2020-0.16-1.0-10162020 |      | MW-04-2020-4.0-6.0-10162020 |      | MW-05-2020-0.0-0.16-10152020 |  | MW-05-2020-0.16-1.0-10152020 |  |
|                   |          | Start Depth (ft)          |       | 0  |     | 0.16                         |      | 4                           |      | 0                            |  | 0.16                         |  |
|                   |          | End Depth (ft)            |       | 0.16   |     | 1                            |      | 6                           |      | 0.16                         |  | 1                            |  |
|                   |          | Sampled                   |       | 10/16/2020   |     | 10/16/2020                   |      | 10/16/2020                  |      | 10/15/2020                   |  | 10/15/2020                   |  |
|                   |          | SDG                       |       | R2009746   |     | R2009746                     |      | R2009746                    |      | R2009746                     |  | R2009746                     |  |
|                   |          | Lab Sample ID             |       | R2009746-012   |     | R2009746-013                 |      | R2009746-015                |      | R2009746-001                 |  | R2009746-002                 |  |
|                   |          | Sample Type               |       | REG  |     | REG                          |      | REG                         |      | REG                          |  | REG                          |  |
|                   |          | Matrix                    |       | SOIL   |     | SOIL                         |      | SOIL                        |      | SOIL                         |  | SOIL                         |  |
| Analytical Method | CAS_RN   | Chemical Name             | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |     |                              |      |                             |      |                              |  |                              |  |
| SW8270            | 83-32-9  | PAHs                      | mg/kg | 500  | 1.5 | 9.7                          | 2.2  | 0.26                        | 0.23 | J                            |  |                              |  |
| SW8270            | 208-96-8 | Acenaphthene              | mg/kg | 500  | 16  | 56                           | 15   | 2.1                         | 1.1  |                              |  |                              |  |
| SW8270            | 120-12-7 | Acenaphthylene            | mg/kg | 500  | 13  | 90                           | 30   | 3.2                         | 1.6  |                              |  |                              |  |
| SW8270            | 120-12-7 | Anthracene                | mg/kg | 500  | 13  | 90                           | 30   | 3.2                         | 1.6  |                              |  |                              |  |
| SW8270            | 56-55-3  | Benzo(A)Anthracene        | mg/kg | 5.6  | 40  | 340                          | 130  | 9.5                         | 4.9  | J                            |  |                              |  |
| SW8270            | 50-32-8  | Benzo(A)Pyrene            | mg/kg | 1  | 55  | 420                          | 170  | 10                          | 6.4  | J                            |  |                              |  |
| SW8270            | 205-99-2 | Benzo(B)Fluoranthene      | mg/kg | 5.6  | 59  | 490                          | 180  | 12                          | 7.1  | J                            |  |                              |  |
| SW8270            | 191-24-2 | Benzo(G,H,I)perylene      | mg/kg | 500  | 42  | 330                          | 110  | 8                           | 4.7  | J                            |  |                              |  |
| SW8270            | 207-08-9 | Benzo(K)Fluoranthene      | mg/kg | 56   | 18  | 160                          | 38   | 2.9                         | 1.5  |                              |  |                              |  |
| SW8270            | 218-01-9 | Chrysene                  | mg/kg | 56   | 46  | 380                          | 170  | 10                          | 5.9  | J                            |  |                              |  |
| SW8270            | 53-70-3  | Dibenzo(a,h)Anthracene    | mg/kg | 0.56   | 9.7 | 55                           | 17   | 1.8                         | 0.88 | J                            |  |                              |  |
| SW8270            | 132-64-9 | Dibenzofuran              | mg/kg | 350  | 2.4 | 24                           | 5.2  | 0.35                        | 0.37 | J                            |  |                              |  |
| SW8270            | 206-44-0 | Fluoranthene              | mg/kg | 500  | 89  | 850                          | 340  | 17                          | 9.6  | J                            |  |                              |  |
| SW8270            | 86-73-7  | Fluorene                  | mg/kg | 500  | 4.1 | 50                           | 13   | 0.35                        | 0.29 | J                            |  |                              |  |
| SW8270            | 193-39-5 | Indeno(1,2,3-Cd)Pyrene    | mg/kg | 5.6  | 41  | 330                          | 120  | 8.1                         | 5    | J                            |  |                              |  |
| SW8270            | 91-20-3  | Naphthalene               | mg/kg | 500  | 6.8 | 36                           | 14   | 0.69                        | 0.69 | J                            |  |                              |  |
| SW8270            | 85-01-8  | Phenanthrene              | mg/kg | 500  | 37  | 540                          | 180  | 2.8                         | 1.5  |                              |  |                              |  |
| SW8270            | 129-00-0 | Pyrene                    | mg/kg | 500  | 68  | 780                          | 290  | 19                          | 12   | J                            |  |                              |  |
|                   |          | Total PAHs <sup>(5)</sup> | mg/kg | 500  | 550 | 4900                         | 1800 | 110                         | 64   |                              |  |                              |  |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.

(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |            |   |       | Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>SDG<br>Lab Sample ID<br>Sample Type<br>Matrix | MW-05-2020<br>MW-05-2020-4.0-6.0-10152020<br>4<br>6<br>10/15/2020<br>R2009746<br>R2009746-003<br>REG<br>SOIL | MW-06-2020<br>MW-06-2020-0.0-0.16-10152020<br>0<br>0.16<br>10/15/2020<br>R2009746<br>R2009746-004<br>REG<br>SOIL | MW-06-2020<br>MW-06-2020-0.16-1.0-10152020<br>0.16<br>1<br>10/15/2020<br>R2009746<br>R2009746-005<br>REG<br>SOIL | MW-06-2020<br>MW-06-2020-7.0-8.0-10152020<br>7<br>8<br>10/15/2020<br>R2009746<br>R2009746-006<br>REG<br>SOIL | MW-07-2020<br>MW-07-2020-0.0-0.16-10152020<br>0<br>0.16<br>10/15/2020<br>R2009746<br>R2009746-009<br>REG<br>SOIL |
|-------------------|------------|---|-------|--|--|--|--|--|--|
| Analytical Method | CAS_RN     | Chemical Name   | Unit  | Soil Cleanup<br>Objective (SCO) for<br>Commercial Use <sup>(1)</sup>   |  |  |  |  |  |
| E160.3            | SOLID      | Solids  | %     |  | 82   | 78.5   | 83.5   | 80.7   | 88.5   |
| E160.3            | SOLIDS     | Total Solids  | %     |  |  |  |  |  |  |
|                   |            | PFAS  |       |  |  |  |  |  |  |
| E537M             | 2991-50-6  | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg |  | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0011 U   |
| E537M             | 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | mg/kg |  | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0011 U   |
| E537M             | 335-76-2   | Perfluorodecanoic acid (PFDA)                             | mg/kg |  | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0011 U   |
| E537M             | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg |  | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0011 U   |
| E537M             | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg |  | 0.0012 U   | 0.0012 U   | 0.00043 J  | 0.0012 U   | 0.0011 U   |
| E537M             | 375-95-1   | Perfluorononanoic Acid (PFNA)                             | mg/kg |  | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0011 U   |
| E537M             | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   | 0.00022 J  | 0.00096 J  | 0.00036 J  | 0.0012 U   | 0.00047 J  |
| E537M             | 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0011 U   |
| E537M             | 376-06-7   | Perfluorotetradecanoic Acid (PFTeDA)                      | mg/kg |  | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0011 U   |
| E537M             | 2058-94-8  | Perfluoroundecanoic Acid (PFunda)                         | mg/kg |  | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.0012 U   | 0.00021 J  |
|                   |            | Metals and Cyanide  |       |  |  |  |  |  |  |
| SW6010            | 7429-90-5  | Aluminum  | mg/kg |  | 21500  | 4220   | 2960   | 20900  | 1530   |
| SW6010            | 7440-36-0  | Antimony  | mg/kg |  | 6.9 U  | 7.5 U  | 6.8 U  | 7.2 U  | 6.7 U  |
| SW6010            | 7440-38-2  | Arsenic   | mg/kg | 16   | 7  | 11.8   | 13.1   | 3.9  | 5.1  |
| SW6010            | 7440-39-3  | Barium  | mg/kg | 400  | 276  | 192  | 162  | 156  | 54.6   |
| SW6010            | 7440-41-7  | Beryllium   | mg/kg | 590  | 3.2  | 0.749  | 0.633  | 1.1  | 0.366  |
| SW6010            | 7440-43-9  | Cadmium   | mg/kg | 9.3  | 1.2  | 1.4  | 1.2  | 0.405 J  | 0.222 J  |
| SW6010            | 7440-70-2  | Calcium   | mg/kg |  | 81500  | 4950   | 3340   | 7880   | 1250   |
| SW6010            | 7440-47-3  | Chromium <sup>(3)</sup>                                   | mg/kg | 400  | 73.6   | 21.9   | 22.1   | 27.7   | 7.5  |
| SW6010            | 7440-48-4  | Cobalt  | mg/kg |  | 5.3 J  | 5.8 J  | 6.4  | 11.4   | 2.4 J  |
| SW6010            | 7440-50-8  | Copper  | mg/kg | 270  | 115  | 63.2   | 45.9   | 21.9   | 16.5   |
| SW6010            | 7439-89-6  | Iron  | mg/kg |  | 27200  | 29400  | 635  | 36100  | 9280   |
| SW6010            | 7439-92-1  | Lead  | mg/kg | 1000   | 143  | 60.5   | 33.1   | 12.1   | 15.4   |
| SW6010            | 7439-95-4  | Magnesium   | mg/kg |  | 4390   | 1110   | 514  | 8060   | 258  |
| SW6010            | 7439-96-5  | Manganese   | mg/kg | 10000  | 2340   | 308  | 308  | 414  | 78.5   |
| SW6010            | 7440-02-0  | Nickel  | mg/kg | 310  | 30   | 25.8   | 66.1   | 29.8   | 7.3  |
| SW6010            | 7440-09-7  | Potassium   | mg/kg |  | 1020   | 466  | 424  | 2400   | 313  |
| SW6010            | 7782-49-2  | Selenium  | mg/kg | 1500   | 1.9  | 1.2 J  | 2.3  | 0.667 J  | 0.897 J  |
| SW6010            | 7440-22-4  | Silver  | mg/kg | 1500   | 1.2 U  | 1.3 U  | 1.1 U  | 1.2 U  | 1.1 U  |
| SW6010            | 7440-23-5  | Sodium  | mg/kg |  | 369  | 99.3 J   | 135  | 136  | 69.7 J   |
| SW6010            | 7440-28-0  | Thallium  | mg/kg |  | 1.2 U  | 1.3 U  | 1.1 U  | 11.9 U   | 1.1 U  |
| SW6010            | 7440-62-2  | Vanadium  | mg/kg |  | 56.1   | 22.3   | 17.7   | 36.8   | 7  |
| SW6010            | 7440-66-6  | Zinc  | mg/kg | 10000  | 346  | 143  | 63.7   | 88.2   | 39.5   |
| SW7471            | 7439-97-6  | Mercury   | mg/kg | 2.8  | 0.44   | 0.661 J  | 0.19   | 0.031 J  | 0.362  |
| SW9012            | 57-12-5    | Cyanide, Total  | mg/kg | 27   | 7.99   | 4.15   | 1.58   | 0.34 U   | 3.85   |
|                   |            | Pesticides  |       |  |  |  |  |  |  |
| SW8081            | 72-54-8    | 4,4'-DDD  | mg/kg | 92   | 0.01 U   | 0.011 U  | 0.01 U   | 0.01 U   | 0.0094 U   |
| SW8081            | 50-29-3    | 4,4'-DDT  | mg/kg | 47   | 0.01 U   | 0.0097 J   | 0.01 U   | 0.01 U   | 0.0094 U   |
| SW8081            | 309-00-2   | Aldrin  | mg/kg | 0.68   | 0.01 U   | 0.011 U  | 0.01 U   | 0.01 U   | 0.0094 U   |
| SW8081            | 319-84-6   | Alpha-BHC   | mg/kg | 3.4  | 0.01 U   | 0.011 U  | 0.01 U   | 0.01 U   | 0.0094 U   |
| SW8081            | 319-85-7   | Beta-BHC  | mg/kg | 3  | 0.01 U   | 0.011 U  | 0.01 U   | 0.01 U   | 0.0094 U   |
| SW8081            | 959-98-8   | Endosulfan (4)  | mg/kg | 200  | 0.01 U   | 0.011 U  | 0.01 U   | 0.01 U   | 0.0094 U   |
| SW8081            | 1031-07-8  | Endosulfan Sulfate <sup>(4)</sup>                         | mg/kg | 200  | 0.048  | 0.066  | 0.01 U   | 0.01 U   | 0.014 J  |
| SW8081            | 72-20-8    | Endrin  | mg/kg | 89   | 0.01 U   | 0.011 U  | 0.01 U   | 0.01 U   | 0.0094 U   |
| SW8081            | 7421-93-4  | Endrin Aldehyde   | mg/kg |  | 0.011  | 0.011 U  | 0.01 U   | 0.01 U   | 0.0094 U   |
| SW8081            | 53494-70-5 | Endrin Ketone   | mg/kg |  | 0.01 U   | 0.011 U  | 0.01 U   | 0.01 U   | 0.014 J  |
| SW8081            | 5566-34-7  | Gamma-Chlordane   | mg/kg |  | 0.01 U   | 0.011 U  | 0.01 U   | 0.01 U   | 0.0094 U   |
| SW8081            | 1024-57-3  | Heptachlor Epoxide  | mg/kg |  | 0.01 U   | 0.011 U  | 0.01 U   | 0.01 U   | 0.0094 U   |
| SW8081            | 72-43-5    | Methoxychlor  | mg/kg |  | 0.01 U   | 0.011 U  | 0.01 U   | 0.01 U   | 0.0094 U   |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                           |             |                             | Location ID      |  | MW-05-2020                  |    | MW-06-2020                   |    | MW-06-2020                   |    | MW-06-2020                   |    | MW-07-2020                   |    |
|---------------------------|-------------|-----------------------------|------------------|--|-----------------------------|----|------------------------------|----|------------------------------|----|------------------------------|----|------------------------------|----|
|                           |             |                             | Field Sample ID  |  | MW-05-2020-4.0-6.0-10152020 |    | MW-06-2020-0.0-0.16-10152020 |    | MW-06-2020-0.16-1.0-10152020 |    | MW-06-2020-0.16-1.0-10152020 |    | MW-07-2020-0.0-0.16-10152020 |    |
|                           |             |                             | Start Depth (ft) |  | 4                           |    | 0                            |    | 0.16                         |    | 0.16                         |    | 0                            |    |
|                           |             |                             | End Depth (ft)   |  | 6                           |    | 0.16                         |    | 1                            |    | 8                            |    | 0.16                         |    |
|                           |             |                             | Sampled          |  | 10/15/2020                  |    | 10/15/2020                   |    | 10/15/2020                   |    | 10/15/2020                   |    | 10/15/2020                   |    |
|                           |             |                             | SDG              |  | R2009746                    |    | R2009746                     |    | R2009746                     |    | R2009746                     |    | R2009746                     |    |
|                           |             |                             | Lab Sample ID    |  | R2009746-003                |    | R2009746-004                 |    | R2009746-005                 |    | R2009746-006                 |    | R2009746-009                 |    |
|                           |             |                             | Sample Type      |  | REG                         |    | REG                          |    | REG                          |    | REG                          |    | REG                          |    |
|                           |             |                             | Matrix           |  | SOIL                        |    | SOIL                         |    | SOIL                         |    | SOIL                         |    | SOIL                         |    |
| Analytical Method         | CAS_RN      | Chemical Name               | Unit             | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |                             |    |                              |    |                              |    |                              |    |                              |    |
| PCBs                      |             |                             |                  |  |                             |    |                              |    |                              |    |                              |    |                              |    |
| SW8082                    | 12672-29-6  | Aroclor-1248                | mg/kg            | 1  | 0.04                        | U  | 0.029                        | J  | 0.04                         | U  | 0.04                         | U  | 0.037                        | U  |
| SW8082                    | 11097-69-1  | Aroclor-1254                | mg/kg            | 1  | 0.04                        | U  | 0.042                        | U  | 0.12                         |    | 0.04                         | U  | 0.037                        | U  |
| SW8082                    | 11096-82-5  | Aroclor-1260                | mg/kg            | 1  | 0.04                        | U  | 0.039                        | J  | 0.062                        | J  | 0.04                         | U  | 0.019                        | J  |
| Total PCBs <sup>(B)</sup> |             |                             |                  | 1  | 0.04                        | U  | 0.068                        |    | 0.18                         |    | 0.04                         | U  | 0.019                        |    |
| Volatiles                 |             |                             |                  |  |                             |    |                              |    |                              |    |                              |    |                              |    |
| SW8260                    | 71-55-6     | 1,1,1-Trichloroethane       | mg/kg            | 500  | 0.0072                      | UJ | 0.013                        | U  | 0.0089                       | U  | 0.0046                       | U  | 0.0098                       | U  |
| SW8260                    | 75-34-3     | 1,1-Dichloroethane          | mg/kg            | 240  | 0.0072                      | UJ | 0.013                        | U  | 0.0089                       | U  | 0.0046                       | U  | 0.0098                       | U  |
| SW8260                    | 78-93-3     | 2-Butanone                  | mg/kg            | 500  | 0.0094                      | J  | 0.013                        | U  | 0.0089                       | U  | 0.011                        |    | 0.0054                       | J  |
| SW8260                    | 67-64-1     | Acetone                     | mg/kg            | 500  | 0.13                        | J  | 0.013                        | U  | 0.0089                       | U  | 0.11                         |    | 0.25                         |    |
| SW8260                    | 71-43-2     | Benzene                     | mg/kg            | 44   | 0.0021                      | J  | 0.00087                      | J  | 0.00064                      | J  | 0.0028                       | J  | 0.0098                       | U  |
| SW8260                    | 74-83-9     | Bromomethane                | mg/kg            |  | 0.0072                      | UJ | 0.013                        | UJ | 0.0089                       | UJ | 0.0046                       | UJ | 0.0098                       | UJ |
| SW8260                    | 75-15-0     | Carbon Disulfide            | mg/kg            |  | 0.0026                      | J  | 0.013                        | U  | 0.0089                       | U  | 0.00062                      | J  | 0.0098                       | U  |
| SW8260                    | 67-66-3     | Chloroform                  | mg/kg            | 350  | 0.0072                      | UJ | 0.013                        | U  | 0.0005                       | J  | 0.0046                       | U  | 0.0098                       | U  |
| SW8260                    | 74-87-3     | Chloromethane               | mg/kg            |  | 0.0072                      | UJ | 0.013                        | U  | 0.0089                       | U  | 0.0046                       | U  | 0.0098                       | U  |
| SW8260                    | 156-59-2    | cis-1,2-Dichloroethene      | mg/kg            | 500  | 0.0072                      | UJ | 0.013                        | U  | 0.0089                       | U  | 0.0046                       | U  | 0.0098                       | U  |
| SW8260                    | 110-82-7    | Cyclohexane                 | mg/kg            |  | 0.006                       | J  | 0.013                        | U  | 0.0089                       | U  | 0.0046                       | U  | 0.0098                       | U  |
| SW8260                    | 100-41-4    | Ethylbenzene                | mg/kg            | 390  | 0.0058                      | J  | 0.0015                       | J  | 0.0015                       | J  | 0.0022                       | J  | 0.0098                       | U  |
| SW8260                    | 98-82-8     | Isopropylbenzene            | mg/kg            |  | 0.00034                     | J  | 0.013                        | U  | 0.0089                       | U  | 0.0033                       | J  | 0.0098                       | U  |
| SW8260                    | XYLENES1314 | m&p-Xylenes                 | mg/kg            | 500  | 0.002                       | J  | 0.0038                       | J  | 0.0034                       | J  | 0.0068                       | J  | 0.02                         | U  |
| SW8260                    | 79-20-9     | Methyl Acetate              | mg/kg            |  | 0.0072                      | UJ | 0.013                        | U  | 0.0089                       | U  | 0.0046                       | U  | 0.0098                       | U  |
| SW8260                    | 1634-04-4   | Methyl Tert-Butyl Ether     | mg/kg            | 500  | 0.0072                      | UJ | 0.013                        | U  | 0.0089                       | U  | 0.0046                       | U  | 0.0098                       | U  |
| SW8260                    | 108-87-2    | Methylcyclohexane           | mg/kg            |  | 0.0098                      | J  | 0.0011                       | J  | 0.0089                       | U  | 0.00053                      | J  | 0.0092                       | J  |
| SW8260                    | 75-09-2     | Methylene Chloride          | mg/kg            | 500  | 0.0072                      | UJ | 0.013                        | U  | 0.0089                       | U  | 0.0046                       | U  | 0.0098                       | U  |
| SW8260                    | 95-47-6     | o-Xylene                    | mg/kg            | 500  | 0.0018                      | J  | 0.0021                       | J  | 0.0016                       | J  | 0.0024                       | J  | 0.0098                       | U  |
| SW8260                    | 100-42-5    | Styrene                     | mg/kg            |  | 0.0072                      | UJ | 0.013                        | U  | 0.0089                       | U  | 0.0046                       | U  | 0.0098                       | U  |
| SW8260                    | 108-88-3    | Toluene                     | mg/kg            | 500  | 0.0016                      | J  | 0.0024                       | J  | 0.0022                       | J  | 0.0011                       | J  | 0.0098                       | U  |
| SW8260                    | 1330-20-7   | Total Xylenes               | mg/kg            | 500  | 0.0038                      | J  | 0.0059                       | J  | 0.0050                       | J  | 0.0092                       | J  | 0.02                         | U  |
| SW8260                    | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg            | 500  | 0.0072                      | UJ | 0.013                        | U  | 0.0089                       | U  | 0.0046                       | U  | 0.0098                       | U  |
| SW8260                    | 79-01-6     | Trichloroethene             | mg/kg            | 200  | 0.0072                      | UJ | 0.013                        | U  | 0.0089                       | U  | 0.0046                       | U  | 0.0098                       | U  |
| Semivolatiles             |             |                             |                  |  |                             |    |                              |    |                              |    |                              |    |                              |    |
| SW8270                    | 92-52-4     | 1,1'-Biphenyl               | mg/kg            |  | 0.65                        |    | 3.2                          |    | 0.14                         |    | 0.017                        | J  | 0.082                        |    |
| SW8270                    | 105-67-9    | 2,4-Dimethylphenol          | mg/kg            |  | 0.095                       | J  | 0.21                         | U  | 0.063                        | J  | 0.041                        | U  | 0.046                        | J  |
| SW8270                    | 91-57-6     | 2-Methylnaphthalene         | mg/kg            |  | 6.7                         |    | 13                           |    | 1                            |    | 0.1                          |    | 0.5                          |    |
| SW8270                    | 95-48-7     | 2-Methylphenol              | mg/kg            | 500  | 0.072                       | J  | 0.11                         | J  | 0.047                        | J  | 0.041                        | U  | 0.04                         | J  |
| SW8270                    | 34METPH     | 3&4-Methylphenol            | mg/kg            | 500  | 0.19                        |    | 0.39                         |    | 0.11                         | J  | 0.041                        | U  | 0.099                        |    |
| SW8270                    | 100-01-6    | 4-Nitroaniline              | mg/kg            |  | 0.12                        | U  | 0.21                         | U  | 0.12                         | U  | 0.041                        | U  | 0.077                        | U  |
| SW8270                    | 98-86-2     | Acetophenone                | mg/kg            |  | 0.12                        | U  | 0.08                         | J  | 0.051                        | J  | 0.041                        | U  | 0.077                        | U  |
| SW8270                    | 100-52-7    | Benzaldehyde                | mg/kg            |  | 0.071                       | J  | 0.21                         | U  | 0.12                         | U  | 0.041                        | UJ | 0.077                        | U  |
| SW8270                    | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg            |  | 2.1                         | U  | 3.9                          | U  | 2.1                          | U  | 0.75                         | UJ | 1.4                          | U  |
| SW8270                    | 86-74-8     | Carbazole                   | mg/kg            |  | 1.9                         |    | 23                           |    | 0.54                         |    | 0.041                        | U  | 0.24                         |    |
| SW8270                    | 84-66-2     | Diethyl Phthalate           | mg/kg            |  | 0.72                        | U  | 1.3                          | U  | 0.7                          | U  | 0.25                         | U  | 0.47                         | U  |
| SW8270                    | 131-11-3    | Dimethyl Phthalate          | mg/kg            |  | 0.61                        | U  | 1.1                          | U  | 0.6                          | U  | 0.21                         | U  | 0.4                          | U  |
| SW8270                    | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg            |  | 1.8                         | U  | 3.3                          | U  | 1.8                          | U  | 0.63                         | U  | 1.2                          | U  |
| SW8270                    | 86-30-6     | n-Nitrosodiphenylamine      | mg/kg            |  | 0.12                        | U  | 0.21                         | U  | 0.12                         | U  | 0.041                        | U  | 0.077                        | U  |
| SW8270                    | 108-95-2    | Phenol                      | mg/kg            | 500  | 0.094                       | J  | 0.31                         |    | 0.04                         | J  | 0.041                        | U  | 0.051                        | J  |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |          |                           |       | Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>SDG<br>Lab Sample ID<br>Sample Type<br>Matrix | MW-05-2020<br>MW-05-2020-4.0-6.0-10152020<br>4<br>6<br>10/15/2020<br>R2009746<br>R2009746-003<br>REG<br>SOIL | MW-06-2020<br>MW-06-2020-0.0-0.16-10152020<br>0<br>0.16<br>10/15/2020<br>R2009746<br>R2009746-004<br>REG<br>SOIL | MW-06-2020<br>MW-06-2020-0.16-1.0-10152020<br>0.16<br>1<br>10/15/2020<br>R2009746<br>R2009746-005<br>REG<br>SOIL | MW-06-2020<br>MW-06-2020-7.0-8.0-10152020<br>7<br>8<br>10/15/2020<br>R2009746<br>R2009746-006<br>REG<br>SOIL | MW-07-2020<br>MW-07-2020-0.0-0.16-10152020<br>0<br>0.16<br>10/15/2020<br>R2009746<br>R2009746-009<br>REG<br>SOIL |
|-------------------|----------|---------------------------|-------|--|--|--|--|--|--|
| Analytical Method | CAS_RN   | Chemical Name             | Unit  | Soil Cleanup<br>Objective (SCO) for<br>Commercial Use <sup>(1)</sup>   |  |  |  |  |  |
|                   |          | PAHs                      |       |  |  |  |  |  |  |
| SW8270            | 83-32-9  | Acenaphthene              | mg/kg | 500  | 7.7  | 8.5  | 0.26   | 0.048  | 0.15   |
| SW8270            | 208-96-8 | Acenaphthylene            | mg/kg | 500  | 7.8  | 37   | 1.4  | 0.06   | 0.66   |
| SW8270            | 120-12-7 | Anthracene                | mg/kg | 500  | 8.1  | 50   | 1.7  | 0.031  | 0.89   |
| SW8270            | 56-55-3  | Benzo(A)Anthracene        | mg/kg | 5.6  | 23   | 100  | 8.4  | 0.04 J+  | 3  |
| SW8270            | 50-32-8  | Benzo(A)Pyrene            | mg/kg | 1  | 28   | 130  | 11   | 0.053 J+   | 4.7  |
| SW8270            | 205-99-2 | Benzo(B)Fluoranthene      | mg/kg | 5.6  | 25   | 130  | 12   | 0.059 J+   | 5.2  |
| SW8270            | 191-24-2 | Benzo(G,H,I)perylene      | mg/kg | 500  | 17   | 84   | 8.5  | 0.022 J+   | 2.9  |
| SW8270            | 207-08-9 | Benzo(K)Fluoranthene      | mg/kg | 56   | 11   | 41   | 3.9  | 0.021 J+   | 1.2  |
| SW8270            | 218-01-9 | Chrysene                  | mg/kg | 56   | 21   | 110  | 9  | 0.042 J+   | 3.7  |
| SW8270            | 53-70-3  | Dibenzo(a,h)Anthracene    | mg/kg | 0.56   | 4.8  | 19   | 1.4  | 0.0069 J   | 0.58   |
| SW8270            | 132-64-9 | Dibenzofuran              | mg/kg | 350  | 5.8  | 25   | 0.5  | 0.033  | 0.34   |
| SW8270            | 206-44-0 | Fluoranthene              | mg/kg | 500  | 40   | 250  | 14   | 0.077 J+   | 5.8  |
| SW8270            | 86-73-7  | Fluorene                  | mg/kg | 500  | 7.1  | 37   | 0.43   | 0.045  | 0.22   |
| SW8270            | 193-39-5 | Indeno(1,2,3-Cd)Pyrene    | mg/kg | 5.6  | 19   | 90   | 8.7  | 0.023 J+   | 3.4  |
| SW8270            | 91-20-3  | Naphthalene               | mg/kg | 500  | 79   | 65   | 1.9 J  | 1.8  | 0.99   |
| SW8270            | 85-01-8  | Phenanthrene              | mg/kg | 500  | 21   | 210  | 6.3  | 0.096  | 3.1  |
| SW8270            | 129-00-0 | Pyrene                    | mg/kg | 500  | 32   | 200  | 14   | 0.069 J+   | 5.6  |
|                   |          | Total PAHs <sup>(5)</sup> | mg/kg | 500  | 360  | 1600   | 100  | 2.5  | 42   |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.

(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |            |   |       | Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>SDG<br>Lab Sample ID<br>Sample Type<br>Matrix | MW-07-2020<br>MW-07-2020-0.16-1.0-10152020<br>0.16<br>1<br>10/15/2020<br>R2009746<br>R2009746-010<br>REG<br>SOIL | MW-07-2020<br>MW-07-2020-4.0-6.0-10152020<br>4<br>6<br>10/15/2020<br>R2009746<br>R2009746-011<br>REG<br>SOIL | MW-08-2020<br>MW-8-2020-0.0-0.16-07132021<br>0<br>0.16<br>7/13/2021<br>R2107052<br>R2107052-005<br>REG<br>SOIL | MW-08-2020<br>MW-8-2020-0.0-0.16-07132021 FD<br>0<br>0.16<br>7/13/2021<br>R2107052<br>R2107052-006<br>FD<br>SOIL | MW-08-2020<br>MW-8-2020-0.16-1.0-07132021<br>0.16<br>1<br>7/13/2021<br>R2107052<br>R2107052-007<br>REG<br>SOIL |
|-------------------|------------|---|-------|--|--|--|--|--|--|
| Analytical Method | CAS_RN     | Chemical Name   | Unit  | Soil Cleanup<br>Objective (SCO) for<br>Commercial Use <sup>(1)</sup>   |  |  |  |  |  |
| E160.3            | SOLID      | Solids  | %     |  | 91.3   | 74.4   |  |  |  |
| E160.3            | SOLIDS     | Total Solids  | %     |  |  |  | 52.5   | 49.2   | 66.7   |
|                   |            | PFAS  |       |  |  |  |  |  |  |
| E537M             | 2991-50-6  | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg |  | 0.001 U  | 0.0013 U   | 0.0017 UJ  | 0.0018 UJ  | 0.0012 UJ  |
| E537M             | 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | mg/kg |  | 0.001 U  | 0.0013 U   | 0.0017 UJ  | 0.0018 UJ  | 0.0012 UJ  |
| E537M             | 335-76-2   | Perfluorodecanoic acid (PFDA)                             | mg/kg |  | 0.001 U  | 0.0013 U   | 0.00056 J  | 0.00073 J  | 0.0012 UJ  |
| E537M             | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg |  | 0.001 U  | 0.0013 U   | 0.0004 J   | 0.0018 UJ  | 0.0012 UJ  |
| E537M             | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg |  | 0.001 U  | 0.0013 U   | 0.0017 UJ  | 0.0018 UJ  | 0.0012 UJ  |
| E537M             | 375-95-1   | Perfluorononanoic Acid (PFNA)                             | mg/kg |  | 0.001 U  | 0.0013 U   | 0.0007 J   | 0.0018 UJ  | 0.0012 UJ  |
| E537M             | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   | 0.00033 J  | 0.0013 U   | 0.0018 J   | 0.0016 J   | 0.00063 J  |
| E537M             | 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   | 0.001 U  | 0.0013 U   | 0.0017 UJ  | 0.0018 UJ  | 0.0012 UJ  |
| E537M             | 376-06-7   | Perfluorotetradecanoic Acid (PFTeDA)                      | mg/kg |  | 0.001 U  | 0.0013 U   | 0.0017 UJ  | 0.0018 UJ  | 0.0012 UJ  |
| E537M             | 2058-94-8  | Perfluoroundecanoic Acid (PFunda)                         | mg/kg |  | 0.001 U  | 0.0013 U   | 0.00058 J  | 0.00054 J  | 0.00023 J  |
|                   |            | Metals and Cyanide  |       |  |  |  |  |  |  |
| SW6010            | 7429-90-5  | Aluminum  | mg/kg |  | 1110   | 6160   | 3370   | 3740 J   | 2840   |
| SW6010            | 7440-36-0  | Antimony  | mg/kg |  | 6.6 U  | 7.9 U  | 11 U   | 12.2 UJ  | 8.3 U  |
| SW6010            | 7440-38-2  | Arsenic   | mg/kg | 16   | 3.8  | 11.9   | 8.9  | 9.7  | 6.3 J  |
| SW6010            | 7440-39-3  | Barium  | mg/kg | 400  | 47.3   | 70.6   | 91.6   | 223  | 162 J  |
| SW6010            | 7440-41-7  | Beryllium   | mg/kg | 590  | 0.252 J  | 1.6  | 0.623  | 0.752 J  | 0.569  |
| SW6010            | 7440-43-9  | Cadmium   | mg/kg | 9.3  | 0.274 J  | 0.54 J   | 0.641 J  | 0.691 J  | 0.625 J  |
| SW6010            | 7440-70-2  | Calcium   | mg/kg | 882  | 5130   | 5130   | 11100  | 9860 J   | 7260   |
| SW6010            | 7440-47-3  | Chromium <sup>(3)</sup>                                   | mg/kg | 400  | 18.8   | 13.2   | 14   | 16.3 J   | 11.7   |
| SW6010            | 7440-48-4  | Cobalt  | mg/kg | 2.4 J  | 2.4 J  | 3.5 J  | 5.9 J  | 6.2 J  | 4.6 J  |
| SW6010            | 7440-50-8  | Copper  | mg/kg | 270  | 20.7   | 123  | 70.8   | 73.8   | 62.6 J   |
| SW6010            | 7439-89-6  | Iron  | mg/kg | 14400  | 14400  | 16800  | 23800  | 27600 J  | 28000  |
| SW6010            | 7439-92-1  | Lead  | mg/kg | 1000   | 10.8   | 27.9   | 37.9   | 41.6 J   | 25.9   |
| SW6010            | 7439-95-4  | Magnesium   | mg/kg |  | 181  | 956  | 1680   | 2060   | 1100 J   |
| SW6010            | 7439-96-5  | Manganese   | mg/kg | 10000  | 103  | 115  | 328  | 370 J  | 326  |
| SW6010            | 7440-02-0  | Nickel  | mg/kg | 310  | 7.3  | 11.4   | 17.8   | 19.6 J   | 14.2   |
| SW6010            | 7440-09-7  | Potassium   | mg/kg |  | 190 J  | 792  | 638  | 657 J  | 469  |
| SW6010            | 7782-49-2  | Selenium  | mg/kg | 1500   | 1.1 J  | 3.5  | 1.8 U  | 20.3 UJ  | 1.4 U  |
| SW6010            | 7440-22-4  | Silver  | mg/kg | 1500   | 1.1 U  | 1.3 U  | 1.8 U  | 2 UJ   | 1.4 U  |
| SW6010            | 7440-23-5  | Sodium  | mg/kg |  | 61.2 J   | 443  | 113 J  | 113 J  | 102 J  |
| SW6010            | 7440-28-0  | Thallium  | mg/kg |  | 1.1 U  | 1.3 U  | 1.8 U  | 2 UJ   | 1.4 U  |
| SW6010            | 7440-62-2  | Vanadium  | mg/kg |  | 4.7 J  | 12.9   | 15.8   | 16.7 J   | 16.1   |
| SW6010            | 7440-66-6  | Zinc  | mg/kg | 10000  | 52.7   | 72.8   | 86.8   | 90.7   | 66.7 J   |
| SW7471            | 7439-97-6  | Mercury   | mg/kg | 2.8  | 0.378  | 0.226  | 0.207 J  | 0.207 J  | 0.044 J  |
| SW9012            | 57-12-5    | Cyanide, Total  | mg/kg | 27   | 3.04   | 4.46   | 3.32   | 3.3 J  | 1.61   |
|                   |            | Pesticides  |       |  |  |  |  |  |  |
| SW8081            | 72-54-8    | 4,4'-DDD  | mg/kg | 92   | 0.0095 U   | 0.012 U  | 0.0034 U   | 0.0035 U   | 0.0025 U   |
| SW8081            | 50-29-3    | 4,4'-DDT  | mg/kg | 47   | 0.0095 U   | 0.012 U  | 0.0034 U   | 0.0035 U   | 0.0025 U   |
| SW8081            | 309-00-2   | Aldrin  | mg/kg | 0.68   | 0.0095 U   | 0.012 U  | 0.0035 U   | 0.0035 U   | 0.0025 U   |
| SW8081            | 319-84-6   | Alpha-BHC   | mg/kg | 3.4  | 0.0095 U   | 0.012 U  | 0.0034 U   | 0.0035 U   | 0.0025 U   |
| SW8081            | 319-85-7   | Beta-BHC  | mg/kg | 3  | 0.0095 U   | 0.012 U  | 0.0034 U   | 0.0035 U   | 0.0025 U   |
| SW8081            | 959-98-8   | Endosulfan (4)  | mg/kg | 200  | 0.0095 U   | 0.012 U  | 0.0034 U   | 0.0035 U   | 0.0025 U   |
| SW8081            | 1031-07-8  | Endosulfan Sulfate <sup>(4)</sup>                         | mg/kg | 200  | 0.0095 U   | 0.0071 J   | 0.018 J  | 0.02 J   | 0.015 J  |
| SW8081            | 72-20-8    | Endrin  | mg/kg | 89   | 0.0095 U   | 0.012 U  | 0.0034 U   | 0.0035 U   | 0.0025 U   |
| SW8081            | 7421-93-4  | Endrin Aldehyde   | mg/kg |  | 0.0095 U   | 0.012 U  | 0.0034 U   | 0.0035 U   | 0.0025 U   |
| SW8081            | 53494-70-5 | Endrin Ketone   | mg/kg |  | 0.0062 J   | 0.012 U  | 0.0034 U   | 0.0035 U   | 0.0025 UJ  |
| SW8081            | 5566-34-7  | Gamma-Chlordane   | mg/kg |  | 0.0095 U   | 0.012 U  | 0.0034 U   | 0.0035 U   | 0.0025 U   |
| SW8081            | 1024-57-3  | Heptachlor Epoxide  | mg/kg |  | 0.0095 U   | 0.012 U  | 0.0034 U   | 0.0022 J   | 0.0025 U   |
| SW8081            | 72-43-5    | Methoxychlor  | mg/kg |  | 0.0095 U   | 0.012 U  | 0.0034 U   | 0.0035 U   | 0.0025 U   |



TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                           |             |                             | Location ID      |  | MW-07-2020                   |    | MW-07-2020                  |    | MW-08-2020                  |    | MW-08-2020                     |    | MW-08-2020                  |    |
|---------------------------|-------------|-----------------------------|------------------|--|------------------------------|----|-----------------------------|----|-----------------------------|----|--------------------------------|----|-----------------------------|----|
|                           |             |                             | Field Sample ID  |  | MW-07-2020-0.16-1.0-10152020 |    | MW-07-2020-4.0-6.0-10152020 |    | MW-8-2020-0.0-0.16-07132021 |    | MW-8-2020-0.0-0.16-07132021 FD |    | MW-8-2020-0.16-1.0-07132021 |    |
|                           |             |                             | Start Depth (ft) |  | 0.16                         |    | 4                           |    | 0                           |    | 0                              |    | 0.16                        |    |
|                           |             |                             | End Depth (ft)   |  | 1                            |    | 6                           |    | 0.16                        |    | 0.16                           |    | 1                           |    |
|                           |             |                             | Sampled          |  | 10/15/2020                   |    | 10/15/2020                  |    | 7/13/2021                   |    | 7/13/2021                      |    | 7/13/2021                   |    |
|                           |             |                             | SDG              |  | R2009746                     |    | R2009746                    |    | R2107052                    |    | R2107052                       |    | R2107052                    |    |
|                           |             |                             | Lab Sample ID    |  | R2009746-010                 |    | R2009746-011                |    | R2107052-005                |    | R2107052-006                   |    | R2107052-007                |    |
|                           |             |                             | Sample Type      |  | REG                          |    | REG                         |    | REG                         |    | FD                             |    | REG                         |    |
|                           |             |                             | Matrix           |  | SOIL                         |    | SOIL                        |    | SOIL                        |    | SOIL                           |    | SOIL                        |    |
| Analytical Method         | CAS_RN      | Chemical Name               | Unit             | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |                              |    |                             |    |                             |    |                                |    |                             |    |
| PCBs                      |             |                             |                  |  |                              |    |                             |    |                             |    |                                |    |                             |    |
| SW8082                    | 12672-29-6  | Aroclor-1248                | mg/kg            | 1  | 0.037                        | U  | 0.046                       | U  | 0.065                       | U  | 0.039                          | J  | 0.049                       | U  |
| SW8082                    | 11097-69-1  | Aroclor-1254                | mg/kg            | 1  | 0.037                        | U  | 0.046                       | U  | 0.065                       | UJ | 0.24                           | J  | 0.049                       | U  |
| SW8082                    | 11096-82-5  | Aroclor-1260                | mg/kg            | 1  | 0.024                        | J  | 0.046                       | U  | 0.065                       | UJ | 0.099                          | J  | 0.049                       | U  |
| Total PCBs <sup>(B)</sup> |             |                             |                  | 1  | 0.024                        |    | 0.046                       | U  | 0.065                       | U  | 0.38                           |    | 0.049                       | U  |
| Volatiles                 |             |                             |                  |  |                              |    |                             |    |                             |    |                                |    |                             |    |
| SW8260                    | 71-55-6     | 1,1,1-Trichloroethane       | mg/kg            | 500  | 0.011                        | U  | 0.011                       | U  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| SW8260                    | 75-34-3     | 1,1-Dichloroethane          | mg/kg            | 240  | 0.011                        | U  | 0.011                       | U  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| SW8260                    | 78-93-3     | 2-Butanone                  | mg/kg            | 500  | 0.011                        | U  | 0.011                       | U  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| SW8260                    | 67-64-1     | Acetone                     | mg/kg            | 500  | 0.011                        | U  | 0.033                       |    | 0.058                       | U  | 0.055                          | U  | 0.06                        | U  |
| SW8260                    | 71-43-2     | Benzene                     | mg/kg            | 44   | 0.00078                      | J  | 0.0029                      | J  | 0.012                       | U  | 0.00048                        | J  | 0.00057                     | J  |
| SW8260                    | 74-83-9     | Bromomethane                | mg/kg            |  | 0.011                        | UJ | 0.011                       | UJ | 0.012                       | UJ | 0.011                          | UJ | 0.012                       | UJ |
| SW8260                    | 75-15-0     | Carbon Disulfide            | mg/kg            |  | 0.011                        | U  | 0.00072                     | J  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| SW8260                    | 67-66-3     | Chloroform                  | mg/kg            | 350  | 0.011                        | U  | 0.011                       | U  | 0.012                       | U  | 0.00059                        | J  | 0.00078                     | J  |
| SW8260                    | 74-87-3     | Chloromethane               | mg/kg            |  | 0.011                        | U  | 0.011                       | U  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| SW8260                    | 156-59-2    | cis-1,2-Dichloroethene      | mg/kg            | 500  | 0.011                        | U  | 0.011                       | U  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| SW8260                    | 110-82-7    | Cyclohexane                 | mg/kg            |  | 0.0007                       | J  | 0.0079                      | J  | 0.012                       | U  | 0.0015                         | J  | 0.012                       | U  |
| SW8260                    | 100-41-4    | Ethylbenzene                | mg/kg            | 390  | 0.011                        | U  | 0.00063                     | J  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| SW8260                    | 98-82-8     | Isopropylbenzene            | mg/kg            |  | 0.011                        | U  | 0.011                       | U  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| SW8260                    | XYLENES1314 | m&p-Xylenes                 | mg/kg            | 500  | 0.021                        | U  | 0.0029                      | J  | 0.023                       | U  | 0.022                          | U  | 0.024                       | U  |
| SW8260                    | 79-20-9     | Methyl Acetate              | mg/kg            |  | 0.011                        | U  | 0.011                       | U  | 0.002                       | J  | 0.011                          | U  | 0.025                       | J+ |
| SW8260                    | 1634-04-4   | Methyl Tert-Butyl Ether     | mg/kg            | 500  | 0.011                        | U  | 0.011                       | U  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| SW8260                    | 108-87-2    | Methylcyclohexane           | mg/kg            |  | 0.0015                       | J  | 0.011                       |    | 0.012                       | U  | 0.0017                         | J  | 0.0021                      | J  |
| SW8260                    | 75-09-2     | Methylene Chloride          | mg/kg            | 500  | 0.011                        | U  | 0.011                       | U  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| SW8260                    | 95-47-6     | o-Xylene                    | mg/kg            | 500  | 0.011                        | U  | 0.002                       | J  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| SW8260                    | 100-42-5    | Styrene                     | mg/kg            |  | 0.011                        | U  | 0.011                       | U  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| SW8260                    | 108-88-3    | Toluene                     | mg/kg            | 500  | 0.00058                      | J  | 0.0031                      | J  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| SW8260                    | 1330-20-7   | Total Xylenes               | mg/kg            | 500  | 0.021                        | U  | 0.0049                      | J  | 0.023                       | U  | 0.022                          | U  | 0.024                       | U  |
| SW8260                    | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg            | 500  | 0.011                        | U  | 0.011                       | U  | 0.012                       | UJ | 0.011                          | U  | 0.012                       | UJ |
| SW8260                    | 79-01-6     | Trichloroethene             | mg/kg            | 200  | 0.011                        | U  | 0.011                       | U  | 0.012                       | U  | 0.011                          | U  | 0.012                       | U  |
| Semivolatiles             |             |                             |                  |  |                              |    |                             |    |                             |    |                                |    |                             |    |
| SW8270                    | 92-52-4     | 1,1'-Biphenyl               | mg/kg            |  | 0.06                         | J  | 0.094                       |    | 1.3                         | U  | 1.3                            | U  | 0.94                        | U  |
| SW8270                    | 105-67-9    | 2,4-Dimethylphenol          | mg/kg            |  | 0.074                        | UJ | 0.089                       | U  | 1.3                         | U  | 1.3                            | U  | 0.94                        | U  |
| SW8270                    | 91-57-6     | 2-Methylnaphthalene         | mg/kg            |  | 0.37                         |    | 0.64                        |    | 0.69                        | J  | 0.65                           | J  | 0.37                        | J  |
| SW8270                    | 95-48-7     | 2-Methylphenol              | mg/kg            | 500  | 0.074                        | UJ | 0.037                       | J  | 1.3                         | U  | 1.3                            | U  | 0.94                        | U  |
| SW8270                    | 34METPH     | 3&4-Methylphenol            | mg/kg            | 500  | 0.083                        | J  | 0.05                        | J  | 1.3                         | U  | 1.3                            | U  | 0.94                        | U  |
| SW8270                    | 100-01-6    | 4-Nitroaniline              | mg/kg            |  | 0.074                        | U  | 0.089                       | U  | 6.7                         | U  | 6.9                            | U  | 4.9                         | U  |
| SW8270                    | 98-86-2     | Acetophenone                | mg/kg            |  | 0.074                        | U  | 0.089                       | U  | 1.3                         | U  | 1.3                            | U  | 0.94                        | U  |
| SW8270                    | 100-52-7    | Benzaldehyde                | mg/kg            |  | 0.056                        | J  | 0.089                       | U  | 6.7                         | U  | 6.9                            | U  | 4.9                         | U  |
| SW8270                    | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg            |  | 1.3                          |    | 1.6                         | U  | 2                           | U  | 2                              | U  | 1.4                         | U  |
| SW8270                    | 86-74-8     | Carbazole                   | mg/kg            |  | 0.17                         |    | 0.22                        |    | 0.56                        | J  | 0.51                           | J  | 0.27                        | J  |
| SW8270                    | 84-66-2     | Diethyl Phthalate           | mg/kg            |  | 0.45                         | U  | 0.54                        | U  | 1.3                         | U  | 1.3                            | U  | 0.94                        | U  |
| SW8270                    | 131-11-3    | Dimethyl Phthalate          | mg/kg            |  | 0.38                         | U  | 0.46                        | U  | 1.3                         | U  | 1.3                            | U  | 0.94                        | U  |
| SW8270                    | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg            |  | 1.1                          | U  | 1.4                         | U  | 1.3                         | U  | 1.3                            | U  | 0.94                        | U  |
| SW8270                    | 86-30-6     | n-Nitrosodiphenylamine      | mg/kg            |  | 0.074                        | U  | 0.089                       | U  | 1.3                         | U  | 1.3                            | U  | 0.94                        | U  |
| SW8270                    | 108-95-2    | Phenol                      | mg/kg            | 500  | 0.031                        | J  | 0.05                        | J  | 1.3                         | U  | 1.3                            | U  | 0.94                        | U  |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |          |                           |       | Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>SDG<br>Lab Sample ID<br>Sample Type<br>Matrix | MW-07-2020<br>MW-07-2020-0.16-1.0-10152020<br>0.16<br>1<br>10/15/2020<br>R2009746<br>R2009746-010<br>REG<br>SOIL | MW-07-2020<br>MW-07-2020-4.0-6.0-10152020<br>4<br>6<br>10/15/2020<br>R2009746<br>R2009746-011<br>REG<br>SOIL | MW-08-2020<br>MW-8-2020-0.0-0.16-07132021<br>0<br>0.16<br>7/13/2021<br>R2107052<br>R2107052-005<br>REG<br>SOIL | MW-08-2020<br>MW-8-2020-0.0-0.16-07132021 FD<br>0<br>0.16<br>7/13/2021<br>R2107052<br>R2107052-006<br>FD<br>SOIL | MW-08-2020<br>MW-8-2020-0.16-1.0-07132021<br>0.16<br>1<br>7/13/2021<br>R2107052<br>R2107052-007<br>REG<br>SOIL |
|-------------------|----------|---------------------------|-------|--|--|--|--|--|--|
| Analytical Method | CAS_RN   | Chemical Name             | Unit  | Soil Cleanup<br>Objective (SCO) for<br>Commercial Use <sup>(1)</sup>   |  |  |  |  |  |
|                   |          | PAHs                      |       |  |  |  |  |  |  |
| SW8270            | 83-32-9  | Acenaphthene              | mg/kg | 500  | 0.11   | 0.16   | 0.72 J   | 0.32 J   | 0.2 J  |
| SW8270            | 208-96-8 | Acenaphthylene            | mg/kg | 500  | 0.28   | 0.61   | 2.2  | 2.2  | 1.8  |
| SW8270            | 120-12-7 | Anthracene                | mg/kg | 500  | 0.51   | 0.76   | 1.9  | 1.6  | 1.4  |
| SW8270            | 56-55-3  | Benzo(A)Anthracene        | mg/kg | 5.6  | 1.4  | 2.1  | 11   | 9.1  | 8  |
| SW8270            | 50-32-8  | Benzo(A)Pyrene            | mg/kg | 1  | 2.2  | 3  | 18   | 15   | 12   |
| SW8270            | 205-99-2 | Benzo(B)Fluoranthene      | mg/kg | 5.6  | 2.6  | 3.2  | 22   | 19   | 15   |
| SW8270            | 191-24-2 | Benzo(G,H,I)perylene      | mg/kg | 500  | 1.2  | 1.5  | 14   | 11   | 8.5  |
| SW8270            | 207-08-9 | Benzo(K)Fluoranthene      | mg/kg | 56   | 0.78   | 1  | 5.8  | 5  | 4  |
| SW8270            | 218-01-9 | Chrysene                  | mg/kg | 56   | 2  | 2.3  | 13   | 11   | 8.9  |
| SW8270            | 53-70-3  | Dibenzo(a,h)Anthracene    | mg/kg | 0.56   | 0.35   | 0.44   | 2.8  | 2.5  | 2.2  |
| SW8270            | 132-64-9 | Dibenzofuran              | mg/kg | 350  | 0.22   | 0.33   | 0.6 J  | 0.58 J   | 0.31 J   |
| SW8270            | 206-44-0 | Fluoranthene              | mg/kg | 500  | 2.8  | 4.2  | 21   | 17   | 16   |
| SW8270            | 86-73-7  | Fluorene                  | mg/kg | 500  | 0.12   | 0.39   | 0.53 J   | 0.44 J   | 0.34 J   |
| SW8270            | 193-39-5 | Indeno(1,2,3-Cd)Pyrene    | mg/kg | 5.6  | 1.3  | 1.8  | 16   | 13   | 10   |
| SW8270            | 91-20-3  | Naphthalene               | mg/kg | 500  | 0.58   | 18   | 1.9 J  | 2 J  | 0.87 J   |
| SW8270            | 85-01-8  | Phenanthrene              | mg/kg | 500  | 1.9  | 2.6  | 6.4  | 5.4  | 4.1  |
| SW8270            | 129-00-0 | Pyrene                    | mg/kg | 500  | 2.8  | 4  | 20   | 16   | 14   |
|                   |          | Total PAHs <sup>(5)</sup> | mg/kg | 500  | 21   | 46   | 160  | 130  | 110  |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.

(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |            | Location ID   |       | MW-08-2020   |    | MW-16-2020                   |    | MW-16-2020                   |    | MW-16-2020                  |    | MW-23-2022              |   |
|-------------------|------------|---|-------|--|----|------------------------------|----|------------------------------|----|-----------------------------|----|-------------------------|---|
|                   |            | Field Sample ID   |       | MW-8-2020-1.5-2.0-07142021                                     |    | MW-16-2020-0.0-0.16-07132021 |    | MW-16-2020-0.16-1.0-07132021 |    | MW-16-2020-2.0-2.5-07132021 |    | MW-23-2022-5.6-12082022 |   |
|                   |            | Start Depth (ft)  |       | 1.5  |    | 0                            |    | 0.16                         |    | 2                           |    | 5                       |   |
|                   |            | End Depth (ft)  |       | 2  |    | 0.16                         |    | 1                            |    | 2.5                         |    | 6                       |   |
|                   |            | Sampled   |       | 7/14/2021  |    | 7/13/2021                    |    | 7/13/2021                    |    | 7/13/2021                   |    | 12/8/2022               |   |
|                   |            | SDG   |       | R2107052   |    | R2107052                     |    | R2107052                     |    | R2107052                    |    | R2211778                |   |
|                   |            | Lab Sample ID   |       | R2107052-010   |    | R2107052-001                 |    | R2107052-002                 |    | R2107052-003                |    | R2211778-001            |   |
|                   |            | Sample Type   |       | REG  |    | REG                          |    | REG                          |    | REG                         |    | REG                     |   |
|                   |            | Matrix  |       | SOIL   |    | SOIL                         |    | SOIL                         |    | SOIL                        |    | SOIL                    |   |
| Analytical Method | CAS_RN     | Chemical Name   | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |    |                              |    |                              |    |                             |    |                         |   |
| E160.3            | SOLID      | Solids  | %     |  |    |                              |    |                              |    |                             |    |                         |   |
| E160.3            | SOLIDS     | Total Solids  | %     | 70.6   |    | 73.5                         |    | 79.7                         |    | 69.1                        |    | 71.5                    |   |
|                   |            | PFAS  |       |  |    |                              |    |                              |    |                             |    |                         |   |
| E537M             | 2991-50-6  | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg | 0.0012   | UJ | 0.0013                       | UJ | 0.001                        | UJ | 0.0013                      | UJ |                         |   |
| E537M             | 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | mg/kg | 0.0012   | UJ | 0.0013                       | UJ | 0.001                        | UJ | 0.0013                      | UJ |                         |   |
| E537M             | 335-76-2   | Perfluorodecanoic acid (PFDA)                             | mg/kg | 0.0012   | UJ | 0.0013                       | UJ | 0.001                        | UJ | 0.0013                      | UJ |                         |   |
| E537M             | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg | 0.00023  | J  | 0.00039                      | J  | 0.00025                      | J  | 0.0013                      | UJ |                         |   |
| E537M             | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg | 0.0012   | UJ | 0.0013                       | UJ | 0.001                        | UJ | 0.0013                      | UJ |                         |   |
| E537M             | 375-95-1   | Perfluorononanoic Acid (PFNA)                             | mg/kg | 0.0012   | UJ | 0.0013                       | UJ | 0.001                        | UJ | 0.0013                      | UJ |                         |   |
| E537M             | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   | J  | 0.00067                      | J  | 0.00063                      | J  | 0.0013                      | UJ |                         |   |
| E537M             | 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   | UJ | 0.0013                       | UJ | 0.001                        | UJ | 0.0013                      | UJ |                         |   |
| E537M             | 376-06-7   | Perfluorotetradecanoic Acid (PFTeDA)                      | mg/kg | 0.0012   | UJ | 0.0013                       | UJ | 0.001                        | UJ | 0.0013                      | UJ |                         |   |
| E537M             | 2058-94-8  | Perfluoroundecanoic Acid (PFunda)                         | mg/kg | 0.0012   | UJ | 0.00025                      | J  | 0.0002                       | J  | 0.0013                      | UJ |                         |   |
|                   |            | Metals and Cyanide  |       |  |    |                              |    |                              |    |                             |    |                         |   |
| SW6010            | 7429-90-5  | Aluminum  | mg/kg | 2730   |    | 3650                         |    | 2570                         |    | 2030                        |    | 13500                   |   |
| SW6010            | 7440-36-0  | Antimony  | mg/kg | 8.5  | U  | 7.7                          | U  | 7.1                          | U  | 8.7                         | U  | 8.4                     | U |
| SW6010            | 7440-38-2  | Arsenic   | mg/kg | 16   |    | 8.1                          |    | 6.3                          |    | 9.8                         |    | 9.3                     |   |
| SW6010            | 7440-39-3  | Barium  | mg/kg | 400  |    | 136                          |    | 156                          |    | 139                         |    | 143                     |   |
| SW6010            | 7440-41-7  | Beryllium   | mg/kg | 590  |    | 0.595                        |    | 0.533                        |    | 0.81                        |    | 0.95                    |   |
| SW6010            | 7440-43-9  | Cadmium   | mg/kg | 9.3  |    | 0.368                        | J  | 0.744                        |    | 0.355                       | J  | 0.63                    | J |
| SW6010            | 7440-70-2  | Calcium   | mg/kg | 3090   |    | 14900                        |    | 5740                         |    | 1690                        |    | 6860                    |   |
| SW6010            | 7440-47-3  | Chromium <sup>(3)</sup>                                   | mg/kg | 400  |    | 7.5                          |    | 7.4                          |    | 5                           |    | 19.5                    |   |
| SW6010            | 7440-48-4  | Cobalt  | mg/kg | 2.4  | J  | 2.4                          | J  | 3.4                          | J  | 3.1                         | J  | 6                       | J |
| SW6010            | 7440-50-8  | Copper  | mg/kg | 270  |    | 53                           |    | 28.3                         |    | 16.8                        |    | 36.6                    |   |
| SW6010            | 7439-89-6  | Iron  | mg/kg | 12400  |    | 13300                        |    | 8990                         |    | 10000                       |    | 34900                   |   |
| SW6010            | 7439-92-1  | Lead  | mg/kg | 1000   |    | 21.8                         |    | 32.1                         |    | 23.7                        |    | 121                     | J |
| SW6010            | 7439-95-4  | Magnesium   | mg/kg | 294  |    | 6690                         |    | 869                          |    | 238                         |    | 2180                    | J |
| SW6010            | 7439-96-5  | Manganese   | mg/kg | 10000  |    | 42                           |    | 86.4                         |    | 75.2                        |    | 344                     |   |
| SW6010            | 7440-02-0  | Nickel  | mg/kg | 310  |    | 9.9                          |    | 8.7                          |    | 9.1                         |    | 21.6                    |   |
| SW6010            | 7440-09-7  | Potassium   | mg/kg | 329  |    | 783                          |    | 451                          |    | 246                         | J  | 1280                    |   |
| SW6010            | 7782-49-2  | Selenium  | mg/kg | 1500   |    | 1.1                          | J  | 11.8                         | U  | 1.2                         | J  | 14                      | U |
| SW6010            | 7440-22-4  | Silver  | mg/kg | 1500   |    | 1.4                          | U  | 1.3                          | U  | 1.5                         | U  | 0.3                     | J |
| SW6010            | 7440-23-5  | Sodium  | mg/kg | 76.4   | J  | 79.3                         | J  | 75.7                         | J  | 81.7                        | J  | 210                     |   |
| SW6010            | 7440-28-0  | Thallium  | mg/kg | 1.4  | U  | 1.3                          | U  | 1.2                          | U  | 1.5                         | U  | 1.4                     | U |
| SW6010            | 7440-62-2  | Vanadium  | mg/kg | 11.8   |    | 12.9                         |    | 9.9                          |    | 9.4                         |    | 23.8                    |   |
| SW6010            | 7440-66-6  | Zinc  | mg/kg | 10000  |    | 29.8                         |    | 36.8                         |    | 19.9                        |    | 356                     |   |
| SW7471            | 7439-97-6  | Mercury   | mg/kg | 2.8  |    | 0.14                         |    | 0.363                        |    | 0.172                       |    | 0.184                   | J |
| SW9012            | 57-12-5    | Cyanide, Total  | mg/kg | 27   |    | 3.39                         |    | 1.5                          |    | 1.22                        |    | 0.69                    |   |
|                   |            | Pesticides  |       |  |    |                              |    |                              |    |                             |    |                         |   |
| SW8081            | 72-54-8    | 4,4'-DDD  | mg/kg | 92   |    | 0.0023                       | U  | 0.0023                       | U  | 0.0022                      | U  |                         |   |
| SW8081            | 50-29-3    | 4,4'-DDT  | mg/kg | 47   |    | 0.0023                       | U  | 0.0023                       | U  | 0.0022                      | U  |                         |   |
| SW8081            | 309-00-2   | Aldrin  | mg/kg | 0.68   |    | 0.0023                       | U  | 0.0023                       | U  | 0.0022                      | U  |                         |   |
| SW8081            | 319-84-6   | Alpha-BHC   | mg/kg | 3.4  |    | 0.0023                       | U  | 0.0023                       | U  | 0.0022                      | U  |                         |   |
| SW8081            | 319-85-7   | Beta-BHC  | mg/kg | 3  |    | 0.0023                       | U  | 0.0023                       | U  | 0.0022                      | U  |                         |   |
| SW8081            | 959-98-8   | Endosulfan (I <sup>(4)</sup> )                            | mg/kg | 200  |    | 0.0023                       | U  | 0.0023                       | U  | 0.0022                      | U  |                         |   |
| SW8081            | 1031-07-8  | Endosulfan Sulfate <sup>(4)</sup>                         | mg/kg | 200  |    | 0.0031                       |    | 0.0023                       | U  | 0.0022                      | U  |                         |   |
| SW8081            | 72-20-8    | Endrin  | mg/kg | 89   |    | 0.0023                       | U  | 0.0023                       | U  | 0.0022                      | U  |                         |   |
| SW8081            | 7421-93-4  | Endrin Aldehyde   | mg/kg |  |    | 0.0023                       | U  | 0.0023                       | U  | 0.0022                      | U  |                         |   |
| SW8081            | 53494-70-5 | Endrin Ketone   | mg/kg |  |    | 0.0023                       | U  | 0.0023                       | U  | 0.0022                      | U  |                         |   |
| SW8081            | 5566-34-7  | Gamma-Chlordane   | mg/kg |  |    | 0.0023                       | U  | 0.0023                       | U  | 0.0022                      | U  |                         |   |
| SW8081            | 1024-57-3  | Heptachlor Epoxide  | mg/kg |  |    | 0.0023                       | U  | 0.0023                       | U  | 0.0022                      | U  |                         |   |
| SW8081            | 72-43-5    | Methoxychlor  | mg/kg |  |    | 0.0023                       | U  | 0.0023                       | U  | 0.0022                      | U  |                         |   |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                           |             |                             | Location ID      |  | MW-08-2020                 |   | MW-16-2020                   |   | MW-16-2020                   |   | MW-16-2020                  |   | MW-23-2022              |   |
|---------------------------|-------------|-----------------------------|------------------|--|----------------------------|---|------------------------------|---|------------------------------|---|-----------------------------|---|-------------------------|---|
|                           |             |                             | Field Sample ID  |  | MW-8-2020-1.5-2.0-07142021 |   | MW-16-2020-0.0-0.16-07132021 |   | MW-16-2020-0.16-1.0-07132021 |   | MW-16-2020-2.0-2.5-07132021 |   | MW-23-2022-5-6-12082022 |   |
|                           |             |                             | Start Depth (ft) |  | 1.5                        |   | 0                            |   | 0.16                         |   | 2                           |   | 5                       |   |
|                           |             |                             | End Depth (ft)   |  | 2                          |   | 0.16                         |   | 1                            |   | 2.5                         |   | 6                       |   |
|                           |             |                             | Sampled          |  | 7/14/2021                  |   | 7/13/2021                    |   | 7/13/2021                    |   | 7/13/2021                   |   | 12/8/2022               |   |
|                           |             |                             | SDG              |  | R2107052                   |   | R2107052                     |   | R2107052                     |   | R2107052                    |   | R2211778                |   |
|                           |             |                             | Lab Sample ID    |  | R2107052-010               |   | R2107052-001                 |   | R2107052-002                 |   | R2107052-003                |   | R2211778-001            |   |
|                           |             |                             | Sample Type      |  | REG                        |   | REG                          |   | REG                          |   | REG                         |   | REG                     |   |
|                           |             |                             | Matrix           |  | SOIL                       |   | SOIL                         |   | SOIL                         |   | SOIL                        |   | SOIL                    |   |
| Analytical Method         | CAS_RN      | Chemical Name               | Unit             | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |                            |   |                              |   |                              |   |                             |   |                         |   |
| PCBs                      |             |                             |                  |  |                            |   |                              |   |                              |   |                             |   |                         |   |
| SW8082                    | 12672-29-6  | Aroclor-1248                | mg/kg            | 1  | 0.045                      | U | 0.045                        | U | 0.043                        | U | 0.05                        | U |                         |   |
| SW8082                    | 11097-69-1  | Aroclor-1254                | mg/kg            | 1  | 0.045                      | U | 0.045                        | U | 0.032                        | J | 0.05                        | U |                         |   |
| SW8082                    | 11096-82-5  | Aroclor-1260                | mg/kg            | 1  | 0.045                      | U | 0.045                        | U | 0.043                        | U | 0.05                        | U |                         |   |
| Total PCBs <sup>(B)</sup> |             |                             |                  | 1  | 0.045                      | U | 0.045                        | U | 0.032                        |   | 0.05                        | U |                         |   |
| Volatiles                 |             |                             |                  |  |                            |   |                              |   |                              |   |                             |   |                         |   |
| SW8260                    | 71-55-6     | 1,1,1-Trichloroethane       | mg/kg            | 500  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0064                  | U |
| SW8260                    | 75-34-3     | 1,1-Dichloroethane          | mg/kg            | 240  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0064                  | U |
| SW8260                    | 78-93-3     | 2-Butanone                  | mg/kg            | 500  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.015                   |   |
| SW8260                    | 67-64-1     | Acetone                     | mg/kg            | 500  | 0.039                      | U | 0.042                        | U | 0.045                        | U | 0.05                        | U | 0.091                   |   |
| SW8260                    | 71-43-2     | Benzene                     | mg/kg            | 44   | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.00058                 | J |
| SW8260                    | 74-83-9     | Bromomethane                | mg/kg            |  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0064                  | U |
| SW8260                    | 75-15-0     | Carbon Disulfide            | mg/kg            |  | 0.0015                     | J | 0.0084                       | U | 0.009                        | U | 0.0032                      | J | 0.0011                  | J |
| SW8260                    | 67-66-3     | Chloroform                  | mg/kg            | 350  | 0.00053                    | J | 0.0084                       | U | 0.009                        | U | 0.00057                     | J | 0.0064                  | U |
| SW8260                    | 74-87-3     | Chloromethane               | mg/kg            |  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0064                  | U |
| SW8260                    | 156-59-2    | cis-1,2-Dichloroethene      | mg/kg            | 500  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0064                  | U |
| SW8260                    | 110-82-7    | Cyclohexane                 | mg/kg            |  | 0.0061                     | J | 0.0081                       | J | 0.0016                       | J | 0.0032                      | J | 0.0064                  | U |
| SW8260                    | 100-41-4    | Ethylbenzene                | mg/kg            | 390  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0064                  | U |
| SW8260                    | 98-82-8     | Isopropylbenzene            | mg/kg            |  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0064                  | U |
| SW8260                    | XYLENES1314 | m&p-Xylenes                 | mg/kg            | 500  | 0.016                      | U | 0.017                        | U | 0.018                        | U | 0.02                        | U | 0.013                   | U |
| SW8260                    | 79-20-9     | Methyl Acetate              | mg/kg            |  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0022                  | J |
| SW8260                    | 1634-04-4   | Methyl Tert-Butyl Ether     | mg/kg            | 500  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0064                  | U |
| SW8260                    | 108-87-2    | Methylcyclohexane           | mg/kg            |  | 0.0097                     | J | 0.0011                       | J | 0.0022                       | J | 0.005                       | J | 0.0064                  | U |
| SW8260                    | 75-09-2     | Methylene Chloride          | mg/kg            | 500  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0088                  | U |
| SW8260                    | 95-47-6     | o-Xylene                    | mg/kg            | 500  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0064                  | U |
| SW8260                    | 100-42-5    | Styrene                     | mg/kg            |  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0064                  | U |
| SW8260                    | 108-88-3    | Toluene                     | mg/kg            | 500  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0064                  | U |
| SW8260                    | 1330-20-7   | Total Xylenes               | mg/kg            | 500  | 0.016                      | U | 0.017                        | U | 0.018                        | U | 0.02                        | U | 0.013                   | U |
| SW8260                    | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg            | 500  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0064                  | U |
| SW8260                    | 79-01-6     | Trichloroethene             | mg/kg            | 200  | 0.0079                     | U | 0.0084                       | U | 0.009                        | U | 0.0099                      | U | 0.0064                  | U |
| Semivolatiles             |             |                             |                  |  |                            |   |                              |   |                              |   |                             |   |                         |   |
| SW8270                    | 92-52-4     | 1,1'-Biphenyl               | mg/kg            |  | 0.47                       | U | 4.5                          | U | 0.84                         | U | 0.48                        | U | 0.89                    | U |
| SW8270                    | 105-67-9    | 2,4-Dimethylphenol          | mg/kg            |  | 0.47                       | U | 4.5                          | U | 0.84                         | U | 0.48                        | U | 0.89                    | U |
| SW8270                    | 91-57-6     | 2-Methylnaphthalene         | mg/kg            |  | 0.47                       | U | 1                            | J | 0.41                         | J | 0.41                        | J | 0.89                    | U |
| SW8270                    | 95-48-7     | 2-Methylphenol              | mg/kg            | 500  | 0.47                       | U | 4.5                          | U | 0.84                         | U | 0.48                        | U | 0.89                    | U |
| SW8270                    | 34METPH     | 3&4-Methylphenol            | mg/kg            | 500  | 0.47                       | U | 4.5                          | U | 0.84                         | U | 0.1                         | J | 0.89                    | U |
| SW8270                    | 100-01-6    | 4-Nitroaniline              | mg/kg            |  | 2.4                        | U | 23                           | U | 4.4                          | U | 2.5                         | U | 4.6                     | U |
| SW8270                    | 98-86-2     | Acetophenone                | mg/kg            |  | 0.47                       | U | 4.5                          | U | 0.84                         | U | 0.48                        | U | 0.89                    | U |
| SW8270                    | 100-52-7    | Benzaldehyde                | mg/kg            |  | 2.4                        | U | 23                           | U | 4.4                          | U | 2.5                         | U | 4.6                     | U |
| SW8270                    | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg            |  | 0.71                       | U | 6.8                          | U | 1.3                          | U | 0.72                        | U | 1.4                     | U |
| SW8270                    | 86-74-8     | Carbazole                   | mg/kg            |  | 0.47                       | U | 4.7                          | U | 0.48                         | J | 0.096                       | J | 0.89                    | U |
| SW8270                    | 84-66-2     | Diethyl Phthalate           | mg/kg            |  | 0.47                       | U | 4.5                          | U | 0.84                         | U | 0.48                        | U | 0.89                    | U |
| SW8270                    | 131-11-3    | Dimethyl Phthalate          | mg/kg            |  | 0.47                       | U | 4.5                          | U | 0.84                         | U | 0.48                        | U | 0.89                    | U |
| SW8270                    | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg            |  | 0.47                       | U | 4.5                          | U | 0.84                         | U | 0.48                        | U | 0.89                    | U |
| SW8270                    | 86-30-6     | n-Nitrosodiphenylamine      | mg/kg            |  | 0.47                       | U | 4.5                          | U | 0.84                         | U | 0.48                        | U | 0.89                    | U |
| SW8270                    | 108-95-2    | Phenol                      | mg/kg            | 500  | 0.47                       | U | 4.5                          | U | 0.84                         | U | 0.48                        | U | 0.89                    | U |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |          | Location ID               |       | MW-08-2020   |        | MW-16-2020                   |   | MW-16-2020                   |   | MW-16-2020                  |   | MW-23-2022              |   |
|-------------------|----------|---------------------------|-------|--|--------|------------------------------|---|------------------------------|---|-----------------------------|---|-------------------------|---|
|                   |          | Field Sample ID           |       | MW-8-2020-1.5-2.0-07142021                                     |        | MW-16-2020-0.0-0.16-07132021 |   | MW-16-2020-0.16-1.0-07132021 |   | MW-16-2020-2.0-2.5-07132021 |   | MW-23-2022-5.6-12082022 |   |
|                   |          | Start Depth (ft)          |       | 1.5  |        | 0                            |   | 0.16                         |   | 2                           |   | 5                       |   |
|                   |          | End Depth (ft)            |       | 2  |        | 0.16                         |   | 1                            |   | 2.5                         |   | 6                       |   |
|                   |          | Sampled                   |       | 7/14/2021  |        | 7/13/2021                    |   | 7/13/2021                    |   | 7/13/2021                   |   | 12/8/2022               |   |
|                   |          | SDG                       |       | R2107052   |        | R2107052                     |   | R2107052                     |   | R2107052                    |   | R2211778                |   |
|                   |          | Lab Sample ID             |       | R2107052-010   |        | R2107052-001                 |   | R2107052-002                 |   | R2107052-003                |   | R2211778-001            |   |
|                   |          | Sample Type               |       | REG  |        | REG                          |   | REG                          |   | REG                         |   | REG                     |   |
|                   |          | Matrix                    |       | SOIL   |        | SOIL                         |   | SOIL                         |   | SOIL                        |   | SOIL                    |   |
| Analytical Method | CAS_RN   | Chemical Name             | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |        |                              |   |                              |   |                             |   |                         |   |
|                   |          | PAHs                      |       |  |        |                              |   |                              |   |                             |   |                         |   |
| SW8270            | 83-32-9  | Acenaphthene              | mg/kg | 500  | 0.47 U | 4.5                          | U | 0.84                         | U | 0.48                        | U | 0.89                    | U |
| SW8270            | 208-96-8 | Acenaphthylene            | mg/kg | 500  | 0.25 J | 5.2                          |   | 1.1                          |   | 0.25                        | J | 0.89                    | U |
| SW8270            | 120-12-7 | Anthracene                | mg/kg | 500  | 0.26 J | 6.7                          |   | 0.88                         |   | 0.25                        | J | 0.89                    | U |
| SW8270            | 56-55-3  | Benzo(A)Anthracene        | mg/kg | 5.6  | 1      | 26                           |   | 4.2                          |   | 0.9                         |   | 0.94                    | J |
| SW8270            | 50-32-8  | Benzo(A)Pyrene            | mg/kg | 1  | 1.5    | 31                           |   | 5.7                          |   | 1                           |   | 1.5                     | J |
| SW8270            | 205-99-2 | Benzo(B)Fluoranthene      | mg/kg | 5.6  | 1.8    | 36                           |   | 6.8                          |   | 1.2                         |   | 2.1                     | J |
| SW8270            | 191-24-2 | Benzo(G,H,I)perylene      | mg/kg | 500  | 1.1    | 20                           |   | 4.1                          |   | 0.62                        |   | 1.2                     | J |
| SW8270            | 207-08-9 | Benzo(K)Fluoranthene      | mg/kg | 56   | 0.53   | 13                           |   | 2.1                          |   | 0.38                        | J | 0.7                     | J |
| SW8270            | 218-01-9 | Chrysene                  | mg/kg | 56   | 1.2    | 29                           |   | 4.6                          |   | 0.92                        |   | 1.3                     | J |
| SW8270            | 53-70-3  | Dibenzo(a,h)Anthracene    | mg/kg | 0.56   | 0.24 J | 4.5                          |   | 0.86                         |   | 0.16                        | J | 0.35                    | J |
| SW8270            | 132-64-9 | Dibenzofuran              | mg/kg | 350  | 0.47 U | 1.8                          | J | 0.29                         | J | 0.17                        | J | 0.89                    | U |
| SW8270            | 206-44-0 | Fluoranthene              | mg/kg | 500  | 2      | 71                           |   | 9.7                          |   | 1.6                         |   | 1.1                     |   |
| SW8270            | 86-73-7  | Fluorene                  | mg/kg | 500  | 0.1 J  | 2.8                          | J | 0.21                         | J | 0.48                        | U | 0.89                    | U |
| SW8270            | 193-39-5 | Indeno(1,2,3-Cd)Pyrene    | mg/kg | 5.6  | 1.3    | 23                           |   | 4.9                          |   | 0.68                        |   | 1.3                     | J |
| SW8270            | 91-20-3  | Naphthalene               | mg/kg | 500  | 0.13 J | 2.9                          | J | 0.66                         | J | 0.49                        | J | 0.68                    | J |
| SW8270            | 85-01-8  | Phenanthrene              | mg/kg | 500  | 0.88   | 50                           |   | 4.9                          |   | 1.1                         |   | 0.44                    | J |
| SW8270            | 129-00-0 | Pyrene                    | mg/kg | 500  | 1.7    | 60                           |   | 8.7                          |   | 1.4                         |   | 0.92                    |   |
|                   |          | Total PAHs <sup>(5)</sup> | mg/kg | 500  | 14     | 380                          |   | 60                           |   | 11                          |   | 13                      |   |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.

(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |            |   |       | Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>SDG<br>Lab Sample ID<br>Sample Type<br>Matrix | MW-23-2022<br>MW-23-2022-5-6-12082022FD<br>5<br>6<br>12/8/2022<br>R2211778<br>R2211778-002<br>FD<br>SOIL | TP-07-2020<br>TP-07-2020-0.0-0.16-10062020<br>0<br>0.16<br>10/6/2020<br>R2009343<br>R2009343-001<br>REG<br>SOIL | TP-07-2020<br>TP-07-2020-0.0-0.16-10062020 FD<br>0<br>0.16<br>10/6/2020<br>R2009343<br>R2009343-002<br>FD<br>SOIL | TP-07-2020<br>TP-07-2020-0.16-1.0-10062020<br>0.16<br>1<br>10/6/2020<br>R2009343<br>R2009343-003<br>REG<br>SOIL | TP-07-2020<br>TP-07-2020-4.0-5.0-10062020<br>4<br>5<br>10/6/2020<br>R2009343<br>R2009343-004<br>REG<br>SOIL |
|-------------------|------------|---|-------|--|--|---|---|---|---|
| Analytical Method | CAS_RN     | Chemical Name   | Unit  | Soil Cleanup<br>Objective (SCO) for<br>Commercial Use <sup>(1)</sup>   |  |   |   |   |   |
| E160.3            | SOLID      | Solids  | %     |  |  | 88.3  | 89.2  | 84.4  | 86.1  |
| E160.3            | SOLIDS     | Total Solids  | %     |  | 69.7   |   |   |   |   |
|                   |            | PFAS  |       |  |  |   |   |   |   |
| E537M             | 2991-50-6  | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg |  |  | 0.001 U   | 0.001 U   | 0.0011 U  | 0.0011 U  |
| E537M             | 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | mg/kg |  |  | 0.001 U   | 0.001 U   | 0.0011 U  | 0.0011 U  |
| E537M             | 335-76-2   | Perfluorodecanoic acid (PFDA)                             | mg/kg |  |  | 0.001 U   | 0.001 U   | 0.0011 U  | 0.0011 U  |
| E537M             | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg |  |  | 0.001 U   | 0.001 U   | 0.0011 U  | 0.0011 U  |
| E537M             | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg |  |  | 0.001 U   | 0.001 U   | 0.0011 U  | 0.0011 U  |
| E537M             | 375-95-1   | Perfluorononanoic Acid (PFNA)                             | mg/kg |  |  | 0.001 U   | 0.001 U   | 0.0011 U  | 0.0011 U  |
| E537M             | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   |  | 0.001 U   | 0.001 U   | 0.00022 J   | 0.0011 U  |
| E537M             | 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   |  | 0.001 U   | 0.001 U   | 0.0011 U  | 0.0011 U  |
| E537M             | 376-06-7   | Perfluorotetradecanoic Acid (PFTeDA)                      | mg/kg |  |  | 0.001 U   | 0.001 U   | 0.0011 U  | 0.0011 U  |
| E537M             | 2058-94-8  | Perfluoroundecanoic Acid (PFunda)                         | mg/kg |  |  | 0.001 U   | 0.001 U   | 0.0011 U  | 0.0011 U  |
|                   |            | Metals and Cyanide  |       |  |  |   |   |   |   |
| SW6010            | 7429-90-5  | Aluminum  | mg/kg |  | 20700  | 1500  | 1240  | 2300  | 11000   |
| SW6010            | 7440-36-0  | Antimony  | mg/kg |  | 8 U  | 6.8 U   | 6.7 U   | 6.8 U   | 6.5 U   |
| SW6010            | 7440-38-2  | Arsenic   | mg/kg | 16   | 5.6  | 2.9   | 3.6   | 10.2 J  | 4.1   |
| SW6010            | 7440-39-3  | Barium  | mg/kg | 400  | 164  | 30.3  | 25  | 49  | 101   |
| SW6010            | 7440-41-7  | Beryllium   | mg/kg | 1.28   | 590  | 0.272 J   | 0.28 J  | 0.57  | 0.57  |
| SW6010            | 7440-43-9  | Cadmium   | mg/kg | 9.3  | 0.2 J  | 0.125 J   | 0.112 J   | 0.194 J   | 0.333 J   |
| SW6010            | 7440-70-2  | Calcium   | mg/kg |  | 4830 J   | 1210 J  | 637 J   | 3030 J  | 52200   |
| SW6010            | 7440-47-3  | Chromium <sup>(3)</sup>                                   | mg/kg | 400  | 26 J   | 4.7   | 4.6   | 8.6   | 26.1  |
| SW6010            | 7440-48-4  | Cobalt  | mg/kg |  | 11.7 J   | 1.9 J   | 1.8 J   | 3.8 J   | 8.5   |
| SW6010            | 7440-50-8  | Copper  | mg/kg | 270  | 24.4   | 13  | 12.3  | 20.1  | 22  |
| SW6010            | 7439-89-6  | Iron  | mg/kg |  | 38100  | 4210  | 4010  | 8040 J  | 25500   |
| SW6010            | 7439-92-1  | Lead  | mg/kg | 1000   | 61.7 J   | 7.9   | 7.8   | 10.9  | 15.2  |
| SW6010            | 7439-95-4  | Magnesium   | mg/kg |  | 4430 J   | 317   | 204   | 1030 J  | 12500   |
| SW6010            | 7439-96-5  | Manganese   | mg/kg | 10000  | 401 J  | 48.1  | 42.5  | 103   | 1560  |
| SW6010            | 7440-02-0  | Nickel  | mg/kg | 310  | 27   | 4 J   | 3.9 J   | 9   | 19.4  |
| SW6010            | 7440-09-7  | Potassium   | mg/kg |  | 1930 J   | 228   | 222 J   | 443   | 2210  |
| SW6010            | 7782-49-2  | Selenium  | mg/kg | 1500   | 1.3 U  | 1.1 U   | 1.1 U   | 1.1 U   | 1.1 U   |
| SW6010            | 7440-22-4  | Silver  | mg/kg | 1500   | 1.3 U  | 1.1 U   | 1.1 U   | 1.1 U   | 1.1 U   |
| SW6010            | 7440-23-5  | Sodium  | mg/kg |  | 140  | 62.7 J  | 61.6 J  | 71.3 J  | 161   |
| SW6010            | 7440-28-0  | Thallium  | mg/kg |  | 1.3 U  | 1.1 U   | 1.1 U   | 1.1 U   | 1.1 U   |
| SW6010            | 7440-62-2  | Vanadium  | mg/kg |  | 36.6   | 4 J   | 4.1 J   | 9   | 77.5  |
| SW6010            | 7440-66-6  | Zinc  | mg/kg | 10000  | 191 J  | 20.3  | 20.3  | 30.8  | 58.1  |
| SW7471            | 7439-97-6  | Mercury   | mg/kg | 2.8  | 1.21 J   | 0.091   | 0.113   | 0.222 J   | 0.015   |
| SW9012            | 57-12-5    | Cyanide, Total  | mg/kg | 27   | 0.67   | 0.82  | 0.77  | 0.77  | 0.37  |
|                   |            | Pesticides  |       |  |  |   |   |   |   |
| SW8081            | 72-54-8    | 4,4'-DDD  | mg/kg | 92   |  | 0.011 U   | 0.0098 J  | 0.013 U   | 0.0096 U  |
| SW8081            | 50-29-3    | 4,4'-DDT  | mg/kg | 47   |  | 0.011 U   | 0.011 U   | 0.013 U   | 0.0096 U  |
| SW8081            | 309-00-2   | Aldrin  | mg/kg | 0.68   |  | 0.011 U   | 0.011 U   | 0.013 U   | 0.0096 U  |
| SW8081            | 319-84-6   | Alpha-BHC   | mg/kg | 3.4  |  | 0.011 U   | 0.011 U   | 0.013 U   | 0.0096 U  |
| SW8081            | 319-85-7   | Beta-BHC  | mg/kg | 3  |  | 0.011 U   | 0.011 U   | 0.013 U   | 0.0096 U  |
| SW8081            | 959-98-8   | Endosulfan (4)  | mg/kg | 200  |  | 0.011 U   | 0.011 U   | 0.013 U   | 0.0096 U  |
| SW8081            | 1031-07-8  | Endosulfan Sulfate <sup>(4)</sup>                         | mg/kg | 200  |  | 0.011 U   | 0.011 U   | 0.013 U   | 0.0096 U  |
| SW8081            | 72-20-8    | Endrin  | mg/kg | 89   |  | 0.011 U   | 0.011 U   | 0.013 U   | 0.0096 U  |
| SW8081            | 7421-93-4  | Endrin Aldehyde   | mg/kg |  |  | 0.011 U   | 0.011 U   | 0.013 U   | 0.0096 U  |
| SW8081            | 53494-70-5 | Endrin Ketone   | mg/kg |  |  | 0.011 U   | 0.011 U   | 0.013 U   | 0.0096 U  |
| SW8081            | 5566-34-7  | Gamma-Chlordane   | mg/kg |  |  | 0.011 U   | 0.011 U   | 0.013 U   | 0.0096 U  |
| SW8081            | 1024-57-3  | Heptachlor Epoxide  | mg/kg |  |  | 0.011 U   | 0.011 U   | 0.013 U   | 0.0096 U  |
| SW8081            | 72-43-5    | Methoxychlor  | mg/kg |  |  | 0.011 U   | 0.011 U   | 0.013 U   | 0.0096 U  |



TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |             | Location ID                 |       | MW-23-2022   |           | TP-07-2020                   |   | TP-07-2020                      |   | TP-07-2020                   |   | TP-07-2020                  |   |
|-------------------|-------------|-----------------------------|-------|--|-----------|------------------------------|---|---------------------------------|---|------------------------------|---|-----------------------------|---|
|                   |             | Field Sample ID             |       | MW-23-2022-5-6-12082022FD                                      |           | TP-07-2020-0-0-0-16-10062020 |   | TP-07-2020-0-0-0-16-10062020 FD |   | TP-07-2020-0-16-1-0-10062020 |   | TP-07-2020-4-0-5-0-10062020 |   |
|                   |             | Start Depth (ft)            |       | 5  |           | 0                            |   | 0                               |   | 0.16                         |   | 1                           |   |
|                   |             | End Depth (ft)              |       | 6  |           | 0.16                         |   | 0.16                            |   | 0.16                         |   | 1                           |   |
|                   |             | Sampled                     |       | 12/8/2022  |           | 10/6/2020                    |   | 10/6/2020                       |   | 10/6/2020                    |   | 10/6/2020                   |   |
|                   |             | SDG                         |       | R2211778   |           | R2009343                     |   | R2009343                        |   | R2009343                     |   | R2009343                    |   |
|                   |             | Lab Sample ID               |       | R2211778-002   |           | R2009343-001                 |   | R2009343-002                    |   | R2009343-003                 |   | R2009343-004                |   |
|                   |             | Sample Type                 |       | FD   |           | REG                          |   | FD                              |   | REG                          |   | REG                         |   |
|                   |             | Matrix                      |       | SOIL   |           | SOIL                         |   | SOIL                            |   | SOIL                         |   | SOIL                        |   |
| Analytical Method | CAS_RN      | Chemical Name               | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |           |                              |   |                                 |   |                              |   |                             |   |
|                   |             | PCBs                        |       |  |           |                              |   |                                 |   |                              |   |                             |   |
| SW8082            | 12672-29-6  | Aroclor-1248                | mg/kg | 1  |           | 0.044                        | U | 0.043                           | U | 0.049                        | U | 0.037                       | U |
| SW8082            | 11097-69-1  | Aroclor-1254                | mg/kg | 1  |           | 0.044                        | U | 0.043                           | U | 0.049                        | U | 0.037                       | U |
| SW8082            | 11096-82-5  | Aroclor-1260                | mg/kg | 1  |           | 0.044                        | U | 0.043                           | U | 0.049                        | U | 0.037                       | U |
|                   |             | Total PCBs <sup>(2)</sup>   |       | 1  |           | 0.044                        | U | 0.043                           | U | 0.049                        | U | 0.037                       | U |
|                   |             | Volatiles                   |       |  |           |                              |   |                                 |   |                              |   |                             |   |
| SW8260            | 71-55-6     | 1,1,1-Trichloroethane       | mg/kg | 500  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 75-34-3     | 1,1-Dichloroethane          | mg/kg | 240  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 78-93-3     | 2-Butanone                  | mg/kg | 500  | 0.015     | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0043                      | J |
| SW8260            | 67-64-1     | Acetone                     | mg/kg | 500  | 0.1       | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.052                       |   |
| SW8260            | 71-43-2     | Benzene                     | mg/kg | 44   | 0.00056 J | 0.00061 J                    |   | 0.0034 J                        |   | 0.0021 J                     |   | 0.00055 J                   |   |
| SW8260            | 74-83-9     | Bromomethane                | mg/kg |  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 75-15-0     | Carbon Disulfide            | mg/kg |  | 0.0015 J  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.00079 J                   |   |
| SW8260            | 67-66-3     | Chloroform                  | mg/kg | 350  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 74-87-3     | Chloromethane               | mg/kg |  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 156-59-2    | cis-1,2-Dichloroethene      | mg/kg | 500  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 110-82-7    | Cyclohexane                 | mg/kg |  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 100-41-4    | Ethylbenzene                | mg/kg | 390  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 98-82-8     | Isopropylbenzene            | mg/kg |  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | XYLENES1314 | m&p-Xylenes                 | mg/kg | 500  | 0.016 U   | 0.022 U                      |   | 0.00094 J                       |   | 0.028 U                      |   | 0.0093 U                    |   |
| SW8260            | 79-20-9     | Methyl Acetate              | mg/kg |  | 0.0017 J  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 1634-04-4   | Methyl Tert-Butyl Ether     | mg/kg | 500  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 108-87-2    | Methylcyclohexane           | mg/kg |  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.00031 J                   |   |
| SW8260            | 75-09-2     | Methylene Chloride          | mg/kg | 500  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 95-47-6     | o-Xylene                    | mg/kg | 500  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 100-42-5    | Styrene                     | mg/kg |  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 108-88-3    | Toluene                     | mg/kg | 500  | 0.0081 U  | 0.00045 J                    |   | 0.0015 J                        |   | 0.00089 J                    |   | 0.0046                      | U |
| SW8260            | 1330-20-7   | Total Xylenes               | mg/kg | 500  | 0.016 U   | 0.022 U                      |   | 0.00094 J                       |   | 0.028 U                      |   | 0.0093 U                    |   |
| SW8260            | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg | 500  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
| SW8260            | 79-01-6     | Trichloroethene             | mg/kg | 200  | 0.0081 U  | 0.011                        | U | 0.012                           | U | 0.014                        | U | 0.0046                      | U |
|                   |             | Semivolatiles               |       |  |           |                              |   |                                 |   |                              |   |                             |   |
| SW8270            | 92-52-4     | 1,1'-Biphenyl               | mg/kg |  | 0.92 U    | 1.3                          | J | 0.12                            | J | 0.23                         |   | 0.012                       | J |
| SW8270            | 105-67-9    | 2,4-Dimethylphenol          | mg/kg |  | 0.92 U    | 0.1                          | J | 0.036                           | U | 0.12                         | U | 0.038                       | U |
| SW8270            | 91-57-6     | 2-Methylnaphthalene         | mg/kg |  | 0.92 U    | 4.4                          | J | 0.61                            | J | 0.99                         |   | 0.049                       |   |
| SW8270            | 95-48-7     | 2-Methylphenol              | mg/kg | 500  | 0.92 U    | 0.12                         | J | 0.017                           | J | 0.037                        | J | 0.038                       | U |
| SW8270            | 34METPH     | 3&4-Methylphenol            | mg/kg | 500  | 0.92 U    | 0.46                         | J | 0.052                           | J | 0.13                         |   | 0.038                       | U |
| SW8270            | 100-01-6    | 4-Nitroaniline              | mg/kg |  | 4.8 U     | 1                            | J | 0.036                           | U | 0.12                         | U | 0.038                       | U |
| SW8270            | 98-86-2     | Acetophenone                | mg/kg |  | 0.92 U    | 0.11                         | U | 0.026                           | J | 0.12                         | U | 0.038                       | U |
| SW8270            | 100-52-7    | Benzaldehyde                | mg/kg |  | 4.8 U     | 0.11                         | U | 0.025                           | J | 0.12                         | U | 0.038                       | U |
| SW8270            | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg |  | 1.4 U     | 2.1                          | U | 0.66                            | U | 2.2                          | U | 0.69                        | U |
| SW8270            | 86-74-8     | Carbazole                   | mg/kg |  | 0.92 U    | 22                           | J | 0.44                            | J | 2.1                          |   | 0.031                       | J |
| SW8270            | 84-66-2     | Diethyl Phthalate           | mg/kg |  | 0.92 U    | 0.69                         | U | 0.22                            | U | 0.73                         | U | 0.23                        | U |
| SW8270            | 131-11-3    | Dimethyl Phthalate          | mg/kg |  | 0.92 U    | 0.59                         | U | 0.19                            | U | 0.62                         | U | 0.2                         | U |
| SW8270            | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg |  | 0.92 U    | 1.7                          | U | 0.55                            | U | 1.8                          | U | 0.58                        | U |
| SW8270            | 86-30-6     | n-Nitrosodiphenylamine      | mg/kg |  | 0.92 U    | 0.12                         | J | 0.036                           | U | 0.12                         | U | 0.038                       | U |
| SW8270            | 108-95-2    | Phenol                      | mg/kg | 500  | 0.92 U    | 0.43                         | J | 0.043                           | J | 0.14                         |   | 0.038                       | U |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |          | Location ID               |       | MW-23-2022   |        | TP-07-2020                   |        | TP-07-2020                      |       | TP-07-2020                   |  | TP-07-2020                  |  |
|-------------------|----------|---------------------------|-------|--|--------|------------------------------|--------|---------------------------------|-------|------------------------------|--|-----------------------------|--|
|                   |          | Field Sample ID           |       | MW-23-2022-5-6-12082022FD                                      |        | TP-07-2020-0.0-0.16-10062020 |        | TP-07-2020-0.0-0.16-10062020 FD |       | TP-07-2020-0.16-1.0-10062020 |  | TP-07-2020-4.0-5.0-10062020 |  |
|                   |          | Start Depth (ft)          |       | 5  |        | 0                            |        | 0                               |       | 0.16                         |  | 1                           |  |
|                   |          | End Depth (ft)            |       | 6  |        | 0.16                         |        | 0.16                            |       | 1                            |  | 5                           |  |
|                   |          | Sampled                   |       | 12/8/2022  |        | 10/6/2020                    |        | 10/6/2020                       |       | 10/6/2020                    |  | 10/6/2020                   |  |
|                   |          | SDG                       |       | R2211778   |        | R2009343                     |        | R2009343                        |       | R2009343                     |  | R2009343                    |  |
|                   |          | Lab Sample ID             |       | R2211778-002   |        | R2009343-001                 |        | R2009343-002                    |       | R2009343-003                 |  | R2009343-004                |  |
|                   |          | Sample Type               |       | FD   |        | REG                          |        | FD                              |       | REG                          |  | REG                         |  |
|                   |          | Matrix                    |       | SOIL   |        | SOIL                         |        | SOIL                            |       | SOIL                         |  | SOIL                        |  |
| Analytical Method | CAS_RN   | Chemical Name             | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |        |                              |        |                                 |       |                              |  |                             |  |
| SW8270            | 83-32-9  | PAHs                      | mg/kg | 500  | 0.92 U | 6.6 J                        | 0.19 J | 0.6                             | 0.098 |                              |  |                             |  |
| SW8270            | 208-96-8 | Acenaphthene              | mg/kg | 500  | 0.92 U | 20 J                         | 0.85 J | 2.5                             | 0.047 |                              |  |                             |  |
| SW8270            | 120-12-7 | Acenaphthylene            | mg/kg | 500  | 0.92 U | 53 J                         | 1.4 J  | 5.2                             | 0.21  |                              |  |                             |  |
| SW8270            | 120-12-7 | Anthracene                | mg/kg | 500  | 0.92 U | 53 J                         | 1.4 J  | 5.2                             | 0.21  |                              |  |                             |  |
| SW8270            | 56-55-3  | Benzo(A)Anthracene        | mg/kg | 5.6  | 1.9 J  | 84 J                         | 5.4 J  | 14                              | 0.22  |                              |  |                             |  |
| SW8270            | 50-32-8  | Benzo(A)Pyrene            | mg/kg | 1  | 2.5 J  | 92 J                         | 7.1 J  | 16                              | 0.29  |                              |  |                             |  |
| SW8270            | 205-99-2 | Benzo(B)Fluoranthene      | mg/kg | 5.6  | 6.3 J  | 98 J                         | 8.8 J  | 19                              | 0.34  |                              |  |                             |  |
| SW8270            | 191-24-2 | Benzo(G,H,I)perylene      | mg/kg | 500  | 2.1 J  | 57 J                         | 4.9 J  | 11                              | 0.17  |                              |  |                             |  |
| SW8270            | 207-08-9 | Benzo(K)Fluoranthene      | mg/kg | 56   | 1.6 J  | 34 J                         | 2.6 J  | 6                               | 0.11  |                              |  |                             |  |
| SW8270            | 218-01-9 | Chrysene                  | mg/kg | 56   | 2.8 J  | 90 J                         | 6.3 J  | 16                              | 0.21  |                              |  |                             |  |
| SW8270            | 53-70-3  | Dibenzo(a,h)Anthracene    | mg/kg | 0.56   | 0.94 J | 15 J                         | 1.2 J  | 2.6                             | 0.052 |                              |  |                             |  |
| SW8270            | 132-64-9 | Dibenzofuran              | mg/kg | 350  | 0.92 U | 16 J                         | 0.51 J | 1.3                             | 0.15  |                              |  |                             |  |
| SW8270            | 206-44-0 | Fluoranthene              | mg/kg | 500  | 1.5    | 250 J                        | 11 J   | 35                              | 0.54  |                              |  |                             |  |
| SW8270            | 86-73-7  | Fluorene                  | mg/kg | 500  | 0.92 U | 32 J                         | 0.39 J | 1.8                             | 0.27  |                              |  |                             |  |
| SW8270            | 193-39-5 | Indeno(1,2,3-Cd)Pyrene    | mg/kg | 5.6  | 2.5 J  | 63 J                         | 5 J    | 12                              | 0.19  |                              |  |                             |  |
| SW8270            | 91-20-3  | Naphthalene               | mg/kg | 500  | 0.62 J | 16 J                         | 2 J    | 4.4                             | 0.12  |                              |  |                             |  |
| SW8270            | 85-01-8  | Phenanthrene              | mg/kg | 500  | 0.46 J | 230 J                        | 4.7 J  | 22                              | 0.72  |                              |  |                             |  |
| SW8270            | 129-00-0 | Pyrene                    | mg/kg | 500  | 1.2    | 180 J                        | 9.5 J  | 27                              | 0.38  |                              |  |                             |  |
|                   |          | Total PAHs <sup>(5)</sup> | mg/kg | 500  | 24     | 1300                         | 72     | 200                             | 4.1   |                              |  |                             |  |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.

(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |            |   |       | Location ID  | TP-08-2020                   | TP-08-2020                   | TP-08-2020                  | TP-09-2020                   | TP-09-2020                   |
|-------------------|------------|---|-------|--|------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|
|                   |            |   |       | Field Sample ID  | TP-08-2020-0.0-0.16-10012020 | TP-08-2020-0.16-1.0-10012020 | TP-08-2020-5.0-6.0-10012020 | TP-09-2020-0.0-0.16-10012020 | TP-09-2020-0.16-1.0-10012020 |
|                   |            |   |       | Start Depth (ft)   | 0                            | 0.16                         | 5                           | 0                            | 0.16                         |
|                   |            |   |       | End Depth (ft)   | 0.16                         | 1                            | 6                           | 0.16                         | 1                            |
|                   |            |   |       | Sampled  | 10/1/2020                    | 10/1/2020                    | 10/1/2020                   | 10/1/2020                    | 10/1/2020                    |
|                   |            |   |       | SDG  | R2009205                     | R2009205                     | R2009205                    | R2009205                     | R2009205                     |
|                   |            |   |       | Lab Sample ID  | R2009205-001                 | R2009205-002                 | R2009205-003                | R2009205-004                 | R2009205-005                 |
|                   |            |   |       | Sample Type  | REG                          | REG                          | REG                         | REG                          | REG                          |
|                   |            |   |       | Matrix   | SOIL                         | SOIL                         | SOIL                        | SOIL                         | SOIL                         |
| Analytical Method | CAS_RN     | Chemical Name   | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |                              |                              |                             |                              |                              |
| E160.3            | SOLID      | Solids  | %     |  | 84                           | 85.4                         | 83.2                        | 85.8                         | 83.9                         |
| E160.3            | SOLIDS     | Total Solids  | %     |  |                              |                              |                             |                              |                              |
|                   |            | PFAS  |       |  |                              |                              |                             |                              |                              |
| E537M             | 2991-50-6  | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg |  |                              |                              |                             |                              |                              |
| E537M             | 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | mg/kg |  |                              |                              |                             |                              |                              |
| E537M             | 335-76-2   | Perfluorodecanoic acid (PFDA)                             | mg/kg |  |                              |                              |                             |                              |                              |
| E537M             | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg |  |                              |                              |                             |                              |                              |
| E537M             | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg |  |                              |                              |                             |                              |                              |
| E537M             | 375-95-1   | Perfluorononanoic Acid (PFNA)                             | mg/kg |  |                              |                              |                             |                              |                              |
| E537M             | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   |                              |                              |                             |                              |                              |
| E537M             | 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   |                              |                              |                             |                              |                              |
| E537M             | 376-06-7   | Perfluorotetradecanoic Acid (PFTeDA)                      | mg/kg |  |                              |                              |                             |                              |                              |
| E537M             | 2058-94-8  | Perfluoroundecanoic Acid (PFunda)                         | mg/kg |  |                              |                              |                             |                              |                              |
|                   |            | Metals and Cyanide  |       |  |                              |                              |                             |                              |                              |
| SW6010            | 7429-90-5  | Aluminum  | mg/kg |  | 1500                         | 2290                         | 3500                        | 3540                         | 4080                         |
| SW6010            | 7440-36-0  | Antimony  | mg/kg |  | 6.6 U                        | 6.9 U                        | 6.7 U                       | 6.9 U                        | 6.9 U                        |
| SW6010            | 7440-38-2  | Arsenic   | mg/kg | 16   | 5.4                          | 7.8                          | 12.1                        | 14.1                         | 18.1                         |
| SW6010            | 7440-39-3  | Barium  | mg/kg | 400  | 45.8                         | 60.6                         | 61.6                        | 92.5                         | 83.3                         |
| SW6010            | 7440-41-7  | Beryllium   | mg/kg | 590  | 0.353                        | 0.505                        | 0.668                       | 0.615                        | 0.688                        |
| SW6010            | 7440-43-9  | Cadmium   | mg/kg | 9.3  | 0.176 J                      | 0.207 J                      | 0.289 J                     | 1.2                          | 1.2                          |
| SW6010            | 7440-70-2  | Calcium   | mg/kg | 2050   | 3330                         | 5030                         | 7030                        | 5440                         | 5440                         |
| SW6010            | 7440-47-3  | Chromium <sup>(3)</sup>                                   | mg/kg | 400  | 13.3                         | 12.7                         | 74.3                        | 36.3                         | 29.1                         |
| SW6010            | 7440-48-4  | Cobalt  | mg/kg |  | 2.7 J                        | 3.5 J                        | 5.9                         | 5.3 J                        | 6.3                          |
| SW6010            | 7440-50-8  | Copper  | mg/kg | 270  | 57.4                         | 32.5                         | 73                          | 87.5                         | 116                          |
| SW6010            | 7439-89-6  | Iron  | mg/kg |  | 12500                        | 16000                        | 24200                       | 27900                        | 48900                        |
| SW6010            | 7439-92-1  | Lead  | mg/kg | 1000   | 13.9                         | 26.6                         | 27.9                        | 159                          | 208                          |
| SW6010            | 7439-95-4  | Magnesium   | mg/kg |  | 307                          | 504                          | 975                         | 1370                         | 1400                         |
| SW6010            | 7439-96-5  | Manganese   | mg/kg | 10000  | 120                          | 200                          | 242                         | 376                          | 424                          |
| SW6010            | 7440-02-0  | Nickel  | mg/kg | 310  | 13.2                         | 16.6                         | 79.9                        | 25.9                         | 30.6                         |
| SW6010            | 7440-09-7  | Potassium   | mg/kg |  | 360                          | 277                          | 298                         | 616                          | 661                          |
| SW6010            | 7782-49-2  | Selenium  | mg/kg | 1500   | 1 J                          | 11.5 U                       | 11.1 U                      | 10.8 U                       | 2.3                          |
| SW6010            | 7440-22-4  | Silver  | mg/kg | 1500   | 1.1 U                        | 1.2 U                        | 1.1 U                       | 0.086 J                      | 0.208 J                      |
| SW6010            | 7440-23-5  | Sodium  | mg/kg |  | 110 U                        | 73.8 J                       | 88 J                        | 100 J                        | 107 J                        |
| SW6010            | 7440-28-0  | Thallium  | mg/kg |  | 1.1 U                        | 1.2 U                        | 1.1 U                       | 1.1 U                        | 1.2 U                        |
| SW6010            | 7440-62-2  | Vanadium  | mg/kg |  | 10.3                         | 16.4                         | 15.1                        | 20.5                         | 24.4                         |
| SW6010            | 7440-66-6  | Zinc  | mg/kg | 10000  | 34.1                         | 31.6                         | 45.3                        | 290                          | 405                          |
| SW7471            | 7439-97-6  | Mercury   | mg/kg | 2.8  | 0.201                        | 0.132                        | 0.21                        | 1.2                          | 1.5                          |
| SW9012            | 57-12-5    | Cyanide, Total  | mg/kg | 27   | 2.41                         | 2.04                         | 2.13                        | 13.9                         | 12.2                         |
|                   |            | Pesticides  |       |  |                              |                              |                             |                              |                              |
| SW8081            | 72-54-8    | 4,4'-DDD  | mg/kg | 92   | 0.01 U                       | 0.01 U                       | 0.011 U                     | 0.0098 U                     | 0.01 U                       |
| SW8081            | 50-29-3    | 4,4'-DDT  | mg/kg | 47   | 0.01 U                       | 0.01 U                       | 0.011 U                     | 0.013 J                      | 0.0092 J                     |
| SW8081            | 309-00-2   | Aldrin  | mg/kg | 0.68   | 0.01 U                       | 0.01 U                       | 0.011 U                     | 0.0098 U                     | 0.01 U                       |
| SW8081            | 319-84-6   | Alpha-BHC   | mg/kg | 3.4  | 0.01 U                       | 0.01 U                       | 0.011 U                     | 0.0098 U                     | 0.01 U                       |
| SW8081            | 319-85-7   | Beta-BHC  | mg/kg | 3  | 0.01 U                       | 0.01 U                       | 0.011 U                     | 0.0098 U                     | 0.01 U                       |
| SW8081            | 959-98-8   | Endosulfan (I <sup>(4)</sup> )                            | mg/kg | 200  | 0.01 U                       | 0.01 U                       | 0.011 U                     | 0.0098 U                     | 0.01 U                       |
| SW8081            | 1031-07-8  | Endosulfan Sulfate <sup>(4)</sup>                         | mg/kg | 200  | 0.01 U                       | 0.01 U                       | 0.029                       | 0.057                        | 0.01 U                       |
| SW8081            | 72-20-8    | Endrin  | mg/kg | 89   | 0.01 U                       | 0.01 U                       | 0.011 U                     | 0.0098 U                     | 0.01 U                       |
| SW8081            | 7421-93-4  | Endrin Aldehyde   | mg/kg |  | 0.01 U                       | 0.01 U                       | 0.0085 J                    | 0.0098 U                     | 0.01 U                       |
| SW8081            | 53494-70-5 | Endrin Ketone   | mg/kg |  | 0.01 U                       | 0.01 U                       | 0.011 U                     | 0.0098 U                     | 0.01 U                       |
| SW8081            | 5566-34-7  | Gamma-Chlordane   | mg/kg |  | 0.01 U                       | 0.01 U                       | 0.01 NJ                     | 0.0078 J                     | 0.0091 J                     |
| SW8081            | 1024-57-3  | Heptachlor Epoxide  | mg/kg |  | 0.01 U                       | 0.01 U                       | 0.011 U                     | 0.014                        | 0.0066 J                     |
| SW8081            | 72-43-5    | Methoxychlor  | mg/kg |  | 0.01 U                       | 0.01 U                       | 0.011 U                     | 0.0098 U                     | 0.01 U                       |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                           |             |                             | Location ID      |  | TP-08-2020                   |   | TP-08-2020                   |   | TP-08-2020                  |   | TP-09-2020                   |   | TP-09-2020                   |   |
|---------------------------|-------------|-----------------------------|------------------|--|------------------------------|---|------------------------------|---|-----------------------------|---|------------------------------|---|------------------------------|---|
|                           |             |                             | Field Sample ID  |  | TP-08-2020-0.0-0.16-10012020 |   | TP-08-2020-0.16-1.0-10012020 |   | TP-08-2020-5.0-6.0-10012020 |   | TP-09-2020-0.0-0.16-10012020 |   | TP-09-2020-0.16-1.0-10012020 |   |
|                           |             |                             | Start Depth (ft) |  | 0                            |   | 0.16                         |   | 5                           |   | 0                            |   | 0.16                         |   |
|                           |             |                             | End Depth (ft)   |  | 0.16                         |   | 1                            |   | 6                           |   | 0.16                         |   | 1                            |   |
|                           |             |                             | Sampled          |  | 10/1/2020                    |   | 10/1/2020                    |   | 10/1/2020                   |   | 10/1/2020                    |   | 10/1/2020                    |   |
|                           |             |                             | SDG              |  | R2009205                     |   | R2009205                     |   | R2009205                    |   | R2009205                     |   | R2009205                     |   |
|                           |             |                             | Lab Sample ID    |  | R2009205-001                 |   | R2009205-002                 |   | R2009205-003                |   | R2009205-004                 |   | R2009205-005                 |   |
|                           |             |                             | Sample Type      |  | REG                          |   | REG                          |   | REG                         |   | REG                          |   | REG                          |   |
|                           |             |                             | Matrix           |  | SOIL                         |   | SOIL                         |   | SOIL                        |   | SOIL                         |   | SOIL                         |   |
| Analytical Method         | CAS_RN      | Chemical Name               | Unit             | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |                              |   |                              |   |                             |   |                              |   |                              |   |
| PCBs                      |             |                             |                  |  |                              |   |                              |   |                             |   |                              |   |                              |   |
| SW8082                    | 12672-29-6  | Aroclor-1248                | mg/kg            | 1  | 0.04                         | U | 0.04                         | U | 0.041                       | U | 0.28                         |   | 0.17                         |   |
| SW8082                    | 11097-69-1  | Aroclor-1254                | mg/kg            | 1  | 0.04                         | U | 0.04                         | U | 0.041                       | U | 0.068                        | J | 0.062                        |   |
| SW8082                    | 11096-82-5  | Aroclor-1260                | mg/kg            | 1  | 0.022                        | J | 0.021                        | J | 0.041                       | U | 0.18                         | J | 0.17                         |   |
| Total PCBs <sup>(B)</sup> |             |                             |                  | 1  | 0.022                        |   | 0.021                        |   | 0.041                       | U | 0.53                         |   | 0.40                         |   |
| Volatiles                 |             |                             |                  |  |                              |   |                              |   |                             |   |                              |   |                              |   |
| SW8260                    | 71-55-6     | 1,1,1-Trichloroethane       | mg/kg            | 500  | 0.011                        | U | 0.00048                      | J | 0.013                       | U | 0.015                        | U | 0.016                        | U |
| SW8260                    | 75-34-3     | 1,1-Dichloroethane          | mg/kg            | 240  | 0.011                        | U | 0.01                         | U | 0.013                       | U | 0.015                        | U | 0.016                        | U |
| SW8260                    | 78-93-3     | 2-Butanone                  | mg/kg            | 500  | 0.011                        | U | 0.01                         | U | 0.038                       |   | 0.015                        | U | 0.016                        | U |
| SW8260                    | 67-64-1     | Acetone                     | mg/kg            | 500  | 0.011                        | U | 0.01                         | U | 0.19                        |   | 0.015                        | U | 0.016                        | U |
| SW8260                    | 71-43-2     | Benzene                     | mg/kg            | 44   | 0.011                        | U | 0.00067                      | J | 0.095                       |   | 0.0026                       | J | 0.016                        | U |
| SW8260                    | 74-83-9     | Bromomethane                | mg/kg            |  | 0.011                        | U | 0.01                         | U | 0.013                       | U | 0.015                        | U | 0.016                        | U |
| SW8260                    | 75-15-0     | Carbon Disulfide            | mg/kg            |  | 0.011                        | U | 0.00076                      | J | 0.0036                      | J | 0.015                        | U | 0.016                        | U |
| SW8260                    | 67-66-3     | Chloroform                  | mg/kg            | 350  | 0.011                        | U | 0.01                         | U | 0.013                       | U | 0.015                        | U | 0.016                        | U |
| SW8260                    | 74-87-3     | Chloromethane               | mg/kg            |  | 0.011                        | U | 0.01                         | U | 0.013                       | U | 0.015                        | U | 0.016                        | U |
| SW8260                    | 156-59-2    | cis-1,2-Dichloroethene      | mg/kg            | 500  | 0.011                        | U | 0.01                         | U | 0.013                       | U | 0.015                        | U | 0.016                        | U |
| SW8260                    | 110-82-7    | Cyclohexane                 | mg/kg            |  | 0.011                        | U | 0.00095                      | J | 0.013                       | U | 0.015                        | U | 0.016                        | U |
| SW8260                    | 100-41-4    | Ethylbenzene                | mg/kg            | 390  | 0.011                        | U | 0.01                         | U | 0.045                       |   | 0.015                        | U | 0.016                        | U |
| SW8260                    | 98-82-8     | Isopropylbenzene            | mg/kg            |  | 0.011                        | U | 0.01                         | U | 0.0056                      | J | 0.015                        | U | 0.016                        | U |
| SW8260                    | XYLENES1314 | m&p-Xylenes                 | mg/kg            | 500  | 0.023                        | U | 0.021                        | U | 0.049                       |   | 0.03                         | U | 0.031                        | U |
| SW8260                    | 79-20-9     | Methyl Acetate              | mg/kg            |  | 0.011                        | U | 0.01                         | U | 0.003                       | J | 0.015                        | U | 0.016                        | U |
| SW8260                    | 1634-04-4   | Methyl Tert-Butyl Ether     | mg/kg            | 500  | 0.011                        | U | 0.01                         | U | 0.013                       | U | 0.015                        | U | 0.016                        | U |
| SW8260                    | 108-87-2    | Methylcyclohexane           | mg/kg            |  | 0.011                        | U | 0.0016                       | J | 0.013                       | U | 0.015                        | U | 0.016                        | U |
| SW8260                    | 75-09-2     | Methylene Chloride          | mg/kg            | 500  | 0.011                        | U | 0.01                         | U | 0.013                       | U | 0.015                        | U | 0.016                        | U |
| SW8260                    | 95-47-6     | o-Xylene                    | mg/kg            | 500  | 0.011                        | U | 0.01                         | U | 0.037                       |   | 0.015                        | U | 0.016                        | U |
| SW8260                    | 100-42-5    | Styrene                     | mg/kg            |  | 0.011                        | U | 0.01                         | U | 0.0076                      | J | 0.015                        | U | 0.016                        | U |
| SW8260                    | 108-88-3    | Toluene                     | mg/kg            | 500  | 0.011                        | U | 0.00048                      | J | 0.038                       |   | 0.0012                       | J | 0.00079                      | J |
| SW8260                    | 1330-20-7   | Total Xylenes               | mg/kg            | 500  | 0.023                        | U | 0.021                        | U | 0.0860                      |   | 0.03                         | U | 0.031                        | U |
| SW8260                    | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg            | 500  | 0.011                        | U | 0.01                         | U | 0.013                       | U | 0.015                        | U | 0.016                        | U |
| SW8260                    | 79-01-6     | Trichloroethene             | mg/kg            | 200  | 0.011                        | U | 0.01                         | U | 0.013                       | U | 0.015                        | U | 0.016                        | U |
| Semivolatiles             |             |                             |                  |  |                              |   |                              |   |                             |   |                              |   |                              |   |
| SW8270                    | 92-52-4     | 1,1'-Biphenyl               | mg/kg            |  | 0.19                         |   | 0.13                         |   | 1.1                         |   | 0.72                         |   | 0.7                          |   |
| SW8270                    | 105-67-9    | 2,4-Dimethylphenol          | mg/kg            |  | 0.094                        | J | 0.073                        | J | 0.33                        |   | 0.058                        | J | 0.054                        | J |
| SW8270                    | 91-57-6     | 2-Methylnaphthalene         | mg/kg            |  | 1.3                          |   | 0.98                         |   | 3.6                         |   | 3.3                          |   | 3                            |   |
| SW8270                    | 95-48-7     | 2-Methylphenol              | mg/kg            | 500  | 0.09                         | J | 0.079                        | J | 0.14                        |   | 0.057                        | J | 0.046                        | J |
| SW8270                    | 34METPH     | 3&4-Methylphenol            | mg/kg            | 500  | 0.3                          |   | 0.26                         |   | 0.36                        |   | 0.19                         |   | 0.13                         |   |
| SW8270                    | 100-01-6    | 4-Nitroaniline              | mg/kg            |  | 0.12                         | U | 0.11                         | U | 0.12                        | U | 0.12                         | U | 0.12                         | U |
| SW8270                    | 98-86-2     | Acetophenone                | mg/kg            |  | 0.12                         | U | 0.11                         | U | 0.062                       | J | 0.098                        | J | 0.12                         | U |
| SW8270                    | 100-52-7    | Benzaldehyde                | mg/kg            |  | 0.094                        | J | 0.066                        | J | 0.12                        | U | 0.09                         | J | 0.087                        | J |
| SW8270                    | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg            |  | 2.2                          | U | 2.1                          | U | 2.2                         | U | 2.2                          | U | 2.1                          | U |
| SW8270                    | 86-74-8     | Carbazole                   | mg/kg            |  | 0.65                         |   | 0.45                         |   | 5.2                         |   | 6.6                          |   | 9.4                          |   |
| SW8270                    | 84-66-2     | Diethyl Phthalate           | mg/kg            |  | 0.72                         | U | 0.69                         | U | 0.73                        | U | 0.72                         | U | 0.71                         | U |
| SW8270                    | 131-11-3    | Dimethyl Phthalate          | mg/kg            |  | 0.62                         | U | 0.59                         | U | 0.62                        | U | 0.61                         | U | 0.6                          | U |
| SW8270                    | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg            |  | 1.8                          | U | 1.7                          | U | 1.8                         | U | 1.8                          | U | 1.8                          | U |
| SW8270                    | 86-30-6     | n-Nitrosodiphenylamine      | mg/kg            |  | 0.12                         | U | 0.11                         | U | 0.12                        | U | 0.12                         | U | 0.12                         | U |
| SW8270                    | 108-95-2    | Phenol                      | mg/kg            | 500  | 0.13                         |   | 0.24                         |   | 0.18                        |   | 0.15                         |   | 0.11                         | J |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |          |                           |       | Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>SDG<br>Lab Sample ID<br>Sample Type<br>Matrix | TP-08-2020<br>TP-08-2020-0.0-0.16-10012020<br>0<br>0.16<br>10/1/2020<br>R2009205<br>R2009205-001<br>REG<br>SOIL | TP-08-2020<br>TP-08-2020-0.16-1.0-10012020<br>0.16<br>1<br>10/1/2020<br>R2009205<br>R2009205-002<br>REG<br>SOIL | TP-08-2020<br>TP-08-2020-5.0-6.0-10012020<br>5<br>6<br>10/1/2020<br>R2009205<br>R2009205-003<br>REG<br>SOIL | TP-09-2020<br>TP-09-2020-0.0-0.16-10012020<br>0<br>0.16<br>10/1/2020<br>R2009205<br>R2009205-004<br>REG<br>SOIL | TP-09-2020<br>TP-09-2020-0.16-1.0-10012020<br>0.16<br>1<br>10/1/2020<br>R2009205<br>R2009205-005<br>REG<br>SOIL |
|-------------------|----------|---------------------------|-------|--|---|---|---|---|---|
| Analytical Method | CAS_RN   | Chemical Name             | Unit  | Soil Cleanup<br>Objective (SCO) for<br>Commercial Use <sup>(1)</sup>   |   |   |   |   |   |
|                   |          | PAHs                      |       |  |   |   |   |   |   |
| SW8270            | 83-32-9  | Acenaphthene              | mg/kg | 500  | 0.59  | 0.48  | 5.3   | 3.2   | 4.2   |
| SW8270            | 208-96-8 | Acenaphthylene            | mg/kg | 500  | 1.9   | 0.8   | 3.7   | 16  | 8.8   |
| SW8270            | 120-12-7 | Anthracene                | mg/kg | 500  | 2.3   | 1.6   | 7.4   | 17  | 21  |
| SW8270            | 56-55-3  | Benzo(A)Anthracene        | mg/kg | 5.6  | 8.5   | 5.3   | 21  | 56  | 76  |
| SW8270            | 50-32-8  | Benzo(A)Pyrene            | mg/kg | 1  | 13  | 8.7   | 41  | 81  | 110   |
| SW8270            | 205-99-2 | Benzo(B)Fluoranthene      | mg/kg | 5.6  | 14  | 8.8   | 45  | 84  | 130   |
| SW8270            | 191-24-2 | Benzo(G,H,I)perylene      | mg/kg | 500  | 10  | 6.7   | 36  | 54  | 89  |
| SW8270            | 207-08-9 | Benzo(K)Fluoranthene      | mg/kg | 56   | 4.8   | 3   | 13  | 26  | 33  |
| SW8270            | 218-01-9 | Chrysene                  | mg/kg | 56   | 9.9   | 6.2   | 28  | 66  | 96  |
| SW8270            | 53-70-3  | Dibenzo(a,h)Anthracene    | mg/kg | 0.56   | 2.2   | 1.1   | 6.8   | 13  | 18  |
| SW8270            | 132-64-9 | Dibenzofuran              | mg/kg | 350  | 0.94  | 0.58  | 8.4   | 5   | 4.5   |
| SW8270            | 206-44-0 | Fluoranthene              | mg/kg | 500  | 17  | 10  | 49  | 140   | 180   |
| SW8270            | 86-73-7  | Fluorene                  | mg/kg | 500  | 0.58  | 0.37  | 9.7   | 7.7   | 7.6   |
| SW8270            | 193-39-5 | Indeno(1,2,3-Cd)Pyrene    | mg/kg | 5.6  | 11  | 7   | 36  | 57  | 90  |
| SW8270            | 91-20-3  | Naphthalene               | mg/kg | 500  | 3.3   | 1.7   | 56  | 12  | 13  |
| SW8270            | 85-01-8  | Phenanthrene              | mg/kg | 500  | 8.2   | 6.2   | 32  | 66  | 84  |
| SW8270            | 129-00-0 | Pyrene                    | mg/kg | 500  | 13  | 8.6   | 33  | 97  | 140   |
|                   |          | Total PAHs <sup>(5)</sup> | mg/kg | 500  | 120   | 77  | 430   | 800   | 1100  |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.

(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |            |   |       | Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>SDG<br>Lab Sample ID<br>Sample Type<br>Matrix | TP-09-2020<br>TP-09-2020-6.5-7.0-10012020<br>6.5<br>7<br>10/1/2020<br>R2009205<br>R2009205-006<br>REG<br>SOIL | TP-12-2020<br>TP-12-2020-0.0-0.16-06242021<br>0<br>0.16<br>6/24/2021<br>R2106414<br>R2106414-005<br>REG<br>SOIL | TP-12-2020<br>TP-12-2020-0.0-0.16-06242021 FD<br>0<br>0.16<br>6/24/2021<br>R2106414<br>R2106414-007<br>FD<br>SOIL | TP-12-2020<br>TP-12-2020-0.16-1.0-06242021<br>0.16<br>1<br>6/24/2021<br>R2106414<br>R2106414-006<br>REG<br>SOIL | TP-12-2020<br>TP-12-2020-4.0-4.5-06252021<br>4<br>4.5<br>6/25/2021<br>R2106414<br>R2106414-010<br>REG<br>SOIL |
|-------------------|------------|---|-------|--|---|---|---|---|---|
| Analytical Method | CAS_RN     | Chemical Name   | Unit  | Soil Cleanup<br>Objective (SCO) for<br>Commercial Use <sup>(1)</sup>   |   |   |   |   |   |
| E160.3            | SOLID      | Solids  | %     |  | 76.5  |   |   |   |   |
| E160.3            | SOLIDS     | Total Solids  | %     |  |   | 82.6  | 83.5  | 79.6  | 71.2  |
|                   |            | PFAS  |       |  |   |   |   |   |   |
| E537M             | 2991-50-6  | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg |  |   | 0.0012 UJ   | 0.0011 UJ   | 0.0011 UJ   | 0.001 UJ  |
| E537M             | 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | mg/kg |  |   | 0.001 J   | 0.00096 J   | 0.00048 J   | 0.001 UJ  |
| E537M             | 335-76-2   | Perfluorodecanoic acid (PFDA)                             | mg/kg |  |   | 0.00038 J   | 0.00036 J   | 0.00031 J   | 0.001 UJ  |
| E537M             | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg |  |   | 0.00032 J   | 0.0011 UJ   | 0.0011 UJ   | 0.001 UJ  |
| E537M             | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg |  |   | 0.0012 UJ   | 0.0011 UJ   | 0.0011 UJ   | 0.001 UJ  |
| E537M             | 375-95-1   | Perfluorononanoic Acid (PFNA)                             | mg/kg |  |   | 0.00063 J   | 0.00056 J   | 0.00043 J   | 0.001 UJ  |
| E537M             | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   |   | 0.0019 J  | 0.0017 J  | 0.0014 J  | 0.001 UJ  |
| E537M             | 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   |   | 0.0017 J  | 0.0015 J  | 0.0016 J  | 0.001 UJ  |
| E537M             | 376-06-7   | Perfluorotetradecanoic Acid (PFTeDA)                      | mg/kg |  |   | 0.0012 UJ   | 0.00024 J   | 0.00026 J   | 0.001 UJ  |
| E537M             | 2058-94-8  | Perfluoroundecanoic Acid (PFunda)                         | mg/kg |  |   | 0.00044 J   | 0.00038 J   | 0.00033 J   | 0.001 UJ  |
|                   |            | Metals and Cyanide  |       |  |   |   |   |   |   |
| SW6010            | 7429-90-5  | Aluminum  | mg/kg |  | 4140  | 2910  | 3020  | 2400  | 4070  |
| SW6010            | 7440-36-0  | Antimony  | mg/kg |  | 1.3 J   | 6.6 U   | 6.7 U   | 7.4 U   | 8 U   |
| SW6010            | 7440-38-2  | Arsenic   | mg/kg | 16   | 12.3  | 11.1  | 13.2  | 9   | 10.3  |
| SW6010            | 7440-39-3  | Barium  | mg/kg | 400  | 48.2  | 505   | 201   | 145   | 77.4  |
| SW6010            | 7440-41-7  | Beryllium   | mg/kg | 590  | 0.484   | 0.649   | 0.676   | 0.677   | 0.636   |
| SW6010            | 7440-43-9  | Cadmium   | mg/kg | 9.3  | 0.183 J   | 0.638   | 0.743   | 0.431 J   | 0.477 J   |
| SW6010            | 7440-70-2  | Calcium   | mg/kg | 9920   | 4160  | 4030  | 4080  | 3950  |   |
| SW6010            | 7440-47-3  | Chromium <sup>(3)</sup>                                   | mg/kg | 400  | 6.4   | 23.7  | 18.2  | 10.6  | 10.2  |
| SW6010            | 7440-48-4  | Cobalt  | mg/kg | 5.8 J  | 5.8   | 5.8   | 6.6   | 4.4 J   | 5 J   |
| SW6010            | 7440-50-8  | Copper  | mg/kg | 270  | 45  | 47.4  | 53.7  | 35.9  | 95.5  |
| SW6010            | 7439-89-6  | Iron  | mg/kg | 20700  | 21900   | 29100   | 14300   | 21800   |   |
| SW6010            | 7439-92-1  | Lead  | mg/kg | 1000   | 78.4  | 42.3  | 41.1  | 33.5  | 43.9  |
| SW6010            | 7439-95-4  | Magnesium   | mg/kg | 2080   | 707   | 726   | 587   | 1130  |   |
| SW6010            | 7439-96-5  | Manganese   | mg/kg | 10000  | 281   | 319   | 282   | 137   | 161   |
| SW6010            | 7440-02-0  | Nickel  | mg/kg | 310  | 14.2  | 21  | 21.5  | 13.3  | 15.9  |
| SW6010            | 7440-09-7  | Potassium   | mg/kg | 390  | 384   | 384   | 414   | 303   | 633   |
| SW6010            | 7782-49-2  | Selenium  | mg/kg | 1500   | 0.797 J   | 1.6   | 0.821 J   | 1.2 U   | 0.874 J   |
| SW6010            | 7440-22-4  | Silver  | mg/kg | 1500   | 1.3 U   | 1.1 U   | 1.1 U   | 1.2 U   | 1.3 U   |
| SW6010            | 7440-23-5  | Sodium  | mg/kg | 90.2 J   | 67.4 J  | 67.4 J  | 65.9 J  | 78.7 J  | 100 J   |
| SW6010            | 7440-28-0  | Thallium  | mg/kg | 1.3 U  | 1.1 U   | 1.1 U   | 1.1 U   | 1.2 U   | 1.3 U   |
| SW6010            | 7440-62-2  | Vanadium  | mg/kg | 12.8   | 19.6  | 19.6  | 21  | 15.2  | 13  |
| SW6010            | 7440-66-6  | Zinc  | mg/kg | 10000  | 71.1  | 65.6  | 69.8  | 49.6  | 98.4  |
| SW7471            | 7439-97-6  | Mercury   | mg/kg | 2.8  | 1.5   | 0.161   | 0.136   | 0.159 J   | 0.215   |
| SW9012            | 57-12-5    | Cyanide, Total  | mg/kg | 27   | 1.78  | 2.68  | 1.98  | 2.48  | 2.5   |
|                   |            | Pesticides  |       |  |   |   |   |   |   |
| SW8081            | 72-54-8    | 4,4'-DDD  | mg/kg | 92   | 0.011 U   | 0.021 U   | 0.021 U   | 0.022 U   | 0.024 U   |
| SW8081            | 50-29-3    | 4,4'-DDT  | mg/kg | 47   | 0.011 U   | 0.021 U   | 0.021 U   | 0.022 U   | 0.024 U   |
| SW8081            | 309-00-2   | Aldrin  | mg/kg | 0.68   | 0.011 U   | 0.021 U   | 0.021 U   | 0.022 U   | 0.024 U   |
| SW8081            | 319-84-6   | Alpha-BHC   | mg/kg | 3.4  | 0.011 U   | 0.021 U   | 0.021 U   | 0.022 U   | 0.024 U   |
| SW8081            | 319-85-7   | Beta-BHC  | mg/kg | 3  | 0.011 U   | 0.021 U   | 0.021 U   | 0.022 U   | 0.024 U   |
| SW8081            | 959-98-8   | Endosulfan (4)  | mg/kg | 200  | 0.011 U   | 0.021 U   | 0.021 U   | 0.022 U   | 0.024 U   |
| SW8081            | 1031-07-8  | Endosulfan Sulfate <sup>(4)</sup>                         | mg/kg | 200  | 0.011 U   | 0.021 U   | 0.021 U   | 0.022 U   | 0.027 J   |
| SW8081            | 72-20-8    | Endrin  | mg/kg | 89   | 0.011 U   | 0.021 U   | 0.021 U   | 0.022 U   | 0.024 U   |
| SW8081            | 7421-93-4  | Endrin Aldehyde   | mg/kg |  | 0.011 U   | 0.021 U   | 0.021 U   | 0.022 U   | 0.024 U   |
| SW8081            | 53494-70-5 | Endrin Ketone   | mg/kg |  | 0.011 UJ  | 0.021 U   | 0.016 J   | 0.022 U   | 0.024 U   |
| SW8081            | 5566-34-7  | Gamma-Chlordane   | mg/kg |  | 0.011 U   | 0.021 U   | 0.021 U   | 0.022 U   | 0.024 U   |
| SW8081            | 1024-57-3  | Heptachlor Epoxide  | mg/kg |  | 0.011 U   | 0.021 U   | 0.021 U   | 0.022 U   | 0.024 U   |
| SW8081            | 72-43-5    | Methoxychlor  | mg/kg |  | 0.011 U   | 0.073 J   | 0.017 J   | 0.083   | 0.094 J   |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |             |                             | Location ID      |  | TP-09-2020                  |  | TP-12-2020                   |  | TP-12-2020                      |  | TP-12-2020                   |  | TP-12-2020                  |  |
|-------------------|-------------|-----------------------------|------------------|--|-----------------------------|--|------------------------------|--|---------------------------------|--|------------------------------|--|-----------------------------|--|
|                   |             |                             | Field Sample ID  |  | TP-09-2020-6.5-7.0-10012020 |  | TP-12-2020-0.0-0.16-06242021 |  | TP-12-2020-0.0-0.16-06242021 FD |  | TP-12-2020-0.16-1.0-06242021 |  | TP-12-2020-4.0-4.5-06252021 |  |
|                   |             |                             | Start Depth (ft) |  | 6.5                         |  | 0                            |  | 0                               |  | 0.16                         |  | 4                           |  |
|                   |             |                             | End Depth (ft)   |  | 7                           |  | 0.16                         |  | 0.16                            |  | 1                            |  | 4.5                         |  |
|                   |             |                             | Sampled          |  | 10/1/2020                   |  | 6/24/2021                    |  | 6/24/2021                       |  | 6/24/2021                    |  | 6/25/2021                   |  |
|                   |             |                             | SDG              |  | R2009205                    |  | R2106414                     |  | R2106414                        |  | R2106414                     |  | R2106414                    |  |
|                   |             |                             | Lab Sample ID    |  | R2009205-006                |  | R2106414-005                 |  | R2106414-007                    |  | R2106414-006                 |  | R2106414-010                |  |
|                   |             |                             | Sample Type      |  | REG                         |  | REG                          |  | FD                              |  | REG                          |  | REG                         |  |
|                   |             |                             | Matrix           |  | SOIL                        |  | SOIL                         |  | SOIL                            |  | SOIL                         |  | SOIL                        |  |
| Analytical Method | CAS_RN      | Chemical Name               | Unit             | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |                             |  |                              |  |                                 |  |                              |  |                             |  |
|                   |             | PCBs                        |                  |  |                             |  |                              |  |                                 |  |                              |  |                             |  |
| SW8082            | 12672-29-6  | Aroclor-1248                | mg/kg            | 1  | 0.042 U                     |  | 0.041 U                      |  | 0.041 U                         |  | 0.043 U                      |  | 0.047 U                     |  |
| SW8082            | 11097-69-1  | Aroclor-1254                | mg/kg            | 1  | 0.042 U                     |  | 0.022 J                      |  | 0.024 J                         |  | 0.043 U                      |  | 0.047 U                     |  |
| SW8082            | 11096-82-5  | Aroclor-1260                | mg/kg            | 1  | 0.042 U                     |  | 0.041 U                      |  | 0.041 U                         |  | 0.043 U                      |  | 0.047 U                     |  |
|                   |             |                             |                  |  |                             |  |                              |  |                                 |  |                              |  |                             |  |
|                   |             | Total PCBs <sup>(5)</sup>   |                  | 1  | 0.042 U                     |  | 0.022                        |  | 0.024                           |  | 0.043 U                      |  | 0.047 U                     |  |
|                   |             | Volatiles                   |                  |  |                             |  |                              |  |                                 |  |                              |  |                             |  |
| SW8260            | 71-55-6     | 1,1,1-Trichloroethane       | mg/kg            | 500  | 0.013 U                     |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 75-34-3     | 1,1-Dichloroethane          | mg/kg            | 240  | 0.013 U                     |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 78-93-3     | 2-Butanone                  | mg/kg            | 500  | 0.02                        |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 67-64-1     | Acetone                     | mg/kg            | 500  | 0.12                        |  | 0.057 U                      |  | 0.055 U                         |  | 0.059 U                      |  | 0.058 U                     |  |
| SW8260            | 71-43-2     | Benzene                     | mg/kg            | 44   | 0.004 J                     |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.0007 J                    |  |
| SW8260            | 74-83-9     | Bromomethane                | mg/kg            |  | 0.013 U                     |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 75-15-0     | Carbon Disulfide            | mg/kg            |  | 0.0017 J                    |  | 0.00079 J                    |  | 0.0011 J                        |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 67-66-3     | Chloroform                  | mg/kg            | 350  | 0.013 U                     |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 74-87-3     | Chloromethane               | mg/kg            |  | 0.013 U                     |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 156-59-2    | cis-1,2-Dichloroethene      | mg/kg            | 500  | 0.013 U                     |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 110-82-7    | Cyclohexane                 | mg/kg            |  | 0.00076 J                   |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.0012 J                    |  |
| SW8260            | 100-41-4    | Ethylbenzene                | mg/kg            | 390  | 0.0011 J                    |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 98-82-8     | Isopropylbenzene            | mg/kg            |  | 0.00071 J                   |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | XYLENES1314 | m&p-Xylenes                 | mg/kg            | 500  | 0.01 J                      |  | 0.023 U                      |  | 0.022 U                         |  | 0.024 U                      |  | 0.023 U                     |  |
| SW8260            | 79-20-9     | Methyl Acetate              | mg/kg            |  | 0.013 U                     |  | 0.011 U                      |  | 0.011 U                         |  | 0.0024 J                     |  | 0.012 U                     |  |
| SW8260            | 1634-04-4   | Methyl Tert-Butyl Ether     | mg/kg            | 500  | 0.013 U                     |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 108-87-2    | Methylcyclohexane           | mg/kg            |  | 0.0024 J                    |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.0022 J                    |  |
| SW8260            | 75-09-2     | Methylene Chloride          | mg/kg            | 500  | 0.013 U                     |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 95-47-6     | o-Xylene                    | mg/kg            | 500  | 0.0071 J                    |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 100-42-5    | Styrene                     | mg/kg            |  | 0.0013 J                    |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 108-88-3    | Toluene                     | mg/kg            | 500  | 0.0047 J                    |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 1330-20-7   | Total Xylenes               | mg/kg            | 500  | 0.0171 J                    |  | 0.023 U                      |  | 0.022 U                         |  | 0.024 U                      |  | 0.023 U                     |  |
| SW8260            | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg            | 500  | 0.013 U                     |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
| SW8260            | 79-01-6     | Trichloroethene             | mg/kg            | 200  | 0.013 U                     |  | 0.011 U                      |  | 0.011 U                         |  | 0.012 U                      |  | 0.012 U                     |  |
|                   |             | Semivolatiles               |                  |  |                             |  |                              |  |                                 |  |                              |  |                             |  |
| SW8270            | 92-52-4     | 1,1'-Biphenyl               | mg/kg            |  | 0.32                        |  | 2.5 U                        |  | 0.97 U                          |  | 6.2 U                        |  | 14 U                        |  |
| SW8270            | 105-67-9    | 2,4-Dimethylphenol          | mg/kg            |  | 0.33                        |  | 2.5 U                        |  | 0.97 U                          |  | 6.2 U                        |  | 14 U                        |  |
| SW8270            | 91-57-6     | 2-Methylnaphthalene         | mg/kg            |  | 1.2                         |  | 1.2 J                        |  | 0.56 J                          |  | 6.2 U                        |  | 4.1 J                       |  |
| SW8270            | 95-48-7     | 2-Methylphenol              | mg/kg            | 500  | 0.31                        |  | 2.5 U                        |  | 0.97 U                          |  | 6.2 U                        |  | 14 U                        |  |
| SW8270            | 34METPH     | 3&4-Methylphenol            | mg/kg            | 500  | 1                           |  | 2.5 U                        |  | 0.97 U                          |  | 6.2 U                        |  | 14 U                        |  |
| SW8270            | 100-01-6    | 4-Nitroaniline              | mg/kg            |  | 0.13 U                      |  | 13 U                         |  | 5 U                             |  | 32 U                         |  | 70 U                        |  |
| SW8270            | 98-86-2     | Acetophenone                | mg/kg            |  | 0.13 U                      |  | 2.5 U                        |  | 0.97 U                          |  | 6.2 U                        |  | 14 U                        |  |
| SW8270            | 100-52-7    | Benzaldehyde                | mg/kg            |  | 0.13 U                      |  | 13 U                         |  | 5 U                             |  | 32 U                         |  | 70 U                        |  |
| SW8270            | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg            |  | 2.4 U                       |  | 3.7 U                        |  | 1.5 U                           |  | 9.4 U                        |  | 21 U                        |  |
| SW8270            | 86-74-8     | Carbazole                   | mg/kg            |  | 3.6 J                       |  | 2.3 J                        |  | 0.82 J                          |  | 5.2 J                        |  | 25                          |  |
| SW8270            | 84-66-2     | Diethyl Phthalate           | mg/kg            |  | 0.79 U                      |  | 2.5 U                        |  | 0.97 U                          |  | 6.2 U                        |  | 14 U                        |  |
| SW8270            | 131-11-3    | Dimethyl Phthalate          | mg/kg            |  | 0.67 U                      |  | 2.5 U                        |  | 0.97 U                          |  | 6.2 U                        |  | 14 U                        |  |
| SW8270            | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg            |  | 2 U                         |  | 2.5 U                        |  | 0.97 U                          |  | 6.2 U                        |  | 14 U                        |  |
| SW8270            | 86-30-6     | n-Nitrosodiphenylamine      | mg/kg            |  | 0.13 U                      |  | 2.5 U                        |  | 0.97 U                          |  | 6.2 U                        |  | 14 U                        |  |
| SW8270            | 108-95-2    | Phenol                      | mg/kg            | 500  | 0.78                        |  | 2.5 U                        |  | 0.97 U                          |  | 6.2 U                        |  | 14 U                        |  |



TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |          | Location ID               |       | TP-09-2020   |      | TP-12-2020                   |   | TP-12-2020                      |   | TP-12-2020                   |   | TP-12-2020                  |   |
|-------------------|----------|---------------------------|-------|--|------|------------------------------|---|---------------------------------|---|------------------------------|---|-----------------------------|---|
|                   |          | Field Sample ID           |       | TP-09-2020-6.5-7.0-10012020                                    |      | TP-12-2020-0.0-0.16-06242021 |   | TP-12-2020-0.0-0.16-06242021 FD |   | TP-12-2020-0.16-1.0-06242021 |   | TP-12-2020-4.0-4.5-06252021 |   |
|                   |          | Start Depth (ft)          |       | 6.5  |      | 0                            |   | 0                               |   | 0.16                         |   | 4                           |   |
|                   |          | End Depth (ft)            |       | 7  |      | 0.16                         |   | 0.16                            |   | 1                            |   | 4.5                         |   |
|                   |          | Sampled                   |       | 10/1/2020  |      | 6/24/2021                    |   | 6/24/2021                       |   | 6/24/2021                    |   | 6/25/2021                   |   |
|                   |          | SDG                       |       | R2009205   |      | R2106414                     |   | R2106414                        |   | R2106414                     |   | R2106414                    |   |
|                   |          | Lab Sample ID             |       | R2009205-006   |      | R2106414-005                 |   | R2106414-007                    |   | R2106414-006                 |   | R2106414-010                |   |
|                   |          | Sample Type               |       | REG  |      | REG                          |   | FD                              |   | REG                          |   | REG                         |   |
|                   |          | Matrix                    |       | SOIL   |      | SOIL                         |   | SOIL                            |   | SOIL                         |   | SOIL                        |   |
| Analytical Method | CAS_RN   | Chemical Name             | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |      |                              |   |                                 |   |                              |   |                             |   |
|                   |          | PAHs                      |       |  |      |                              |   |                                 |   |                              |   |                             |   |
| SW8270            | 83-32-9  | Acenaphthene              | mg/kg | 500  | 0.68 | 1.6                          | J | 0.65                            | J | 6.2                          | U | 2.9                         | J |
| SW8270            | 208-96-8 | Acenaphthylene            | mg/kg | 500  | 2.3  | 3.1                          |   | 2.2                             |   | 7.4                          |   | 27                          |   |
| SW8270            | 120-12-7 | Anthracene                | mg/kg | 500  | 8.4  | 7.1                          | J | 2.5                             | J | 9.1                          |   | 54                          |   |
| SW8270            | 56-55-3  | Benzo(A)Anthracene        | mg/kg | 5.6  | 18   | 17                           | J | 8.8                             | J | 30                           |   | 66                          |   |
| SW8270            | 50-32-8  | Benzo(A)Pyrene            | mg/kg | 1  | 20   | 20                           |   | 13                              |   | 36                           |   | 65                          |   |
| SW8270            | 205-99-2 | Benzo(B)Fluoranthene      | mg/kg | 5.6  | 19   | 24                           |   | 17                              |   | 42                           |   | 68                          |   |
| SW8270            | 191-24-2 | Benzo(G,H,I)perylene      | mg/kg | 500  | 8    | 10                           |   | 7.2                             |   | 22                           |   | 30                          |   |
| SW8270            | 207-08-9 | Benzo(K)Fluoranthene      | mg/kg | 56   | 7.3  | 8.3                          |   | 5.8                             |   | 15                           |   | 27                          |   |
| SW8270            | 218-01-9 | Chrysene                  | mg/kg | 56   | 16   | 18                           |   | 10                              |   | 31                           |   | 62                          |   |
| SW8270            | 53-70-3  | Dibenzo(a,h)Anthracene    | mg/kg | 0.56   | 3.6  | 2.8                          |   | 2                               |   | 5.3                          | J | 8.9                         | J |
| SW8270            | 132-64-9 | Dibenzofuran              | mg/kg | 350  | 2.2  | 1.9                          | J | 0.53                            | J | 1.6                          | J | 16                          |   |
| SW8270            | 206-44-0 | Fluoranthene              | mg/kg | 500  | 28   | 34                           | J | 15                              | J | 84                           |   | 180                         |   |
| SW8270            | 86-73-7  | Fluorene                  | mg/kg | 500  | 3.5  | 3.5                          | J | 0.46                            | J | 3.2                          | J | 36                          |   |
| SW8270            | 193-39-5 | Indeno(1,2,3-Cd)Pyrene    | mg/kg | 5.6  | 10   | 12                           |   | 8.6                             |   | 24                           |   | 36                          |   |
| SW8270            | 91-20-3  | Naphthalene               | mg/kg | 500  | 2.1  | 1.5                          | J | 0.91                            | J | 1.6                          | J | 11                          | J |
| SW8270            | 85-01-8  | Phenanthrene              | mg/kg | 500  | 19   | 27                           | J | 7                               | J | 56                           |   | 200                         |   |
| SW8270            | 129-00-0 | Pyrene                    | mg/kg | 500  | 21   | 26                           | J | 14                              | J | 70                           |   | 130                         |   |
|                   |          | Total PAHs <sup>(5)</sup> | mg/kg | 500  | 190  | 220                          |   | 120                             |   | 440                          |   | 1000                        |   |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.

(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |            | Location ID   |       | TP-13-2020   |          | TP-13-2020                   |         | TP-13-2020   |         | TP-14-2020                   |         | TP-14-2020                   |          |
|-------------------|------------|---|-------|--|----------|------------------------------|---------|--------------|---------|------------------------------|---------|------------------------------|----------|
|                   |            | Field Sample ID   |       | TP-13-2020-0.0-0.16-06232021                                   |          | TP-13-2020-0.16-1.0-06232021 |         | TP-13-2020-4 |         | TP-14-2020-0.0-0.16-06242021 |         | TP-14-2020-0.16-1.0-06242021 |          |
|                   |            | Start Depth (ft)  |       | 0  |          | 0.16                         |         | 4            |         | 0                            |         | 0                            |          |
|                   |            | End Depth (ft)  |       | 0.16   |          | 1                            |         | 5            |         | 0.16                         |         | 1                            |          |
|                   |            | Sampled   |       | 6/23/2021  |          | 6/23/2021                    |         | 6/24/2021    |         | 6/24/2021                    |         | 6/24/2021                    |          |
|                   |            | SDG   |       | R2106353   |          | R2106353                     |         | R2106353     |         | R2106353                     |         | R2106353                     |          |
|                   |            | Lab Sample ID   |       | R2106353-002   |          | R2106353-003                 |         | R2106353-004 |         | R2106353-005                 |         | R2106353-006                 |          |
|                   |            | Sample Type   |       | REG  |          | REG                          |         | REG          |         | REG                          |         | REG                          |          |
|                   |            | Matrix  |       | SOIL   |          | SOIL                         |         | SOIL         |         | SOIL                         |         | SOIL                         |          |
| Analytical Method | CAS_RN     | Chemical Name   | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |          |                              |         |              |         |                              |         |                              |          |
| E160.3            | SOLID      | Solids  | %     |  |          |                              |         |              |         |                              |         |                              |          |
| E160.3            | SOLIDS     | Total Solids  | %     |  | 73.9     |                              | 80.4    |              | 67.8    |                              | 73.1    |                              | 77.5     |
|                   |            | PFAS  |       |  |          |                              |         |              |         |                              |         |                              |          |
| E537M             | 2991-50-6  | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg |  |          |                              |         |              |         |                              |         |                              |          |
| E537M             | 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | mg/kg |  |          |                              |         |              |         |                              |         |                              |          |
| E537M             | 335-76-2   | Perfluorodecanoic acid (PFDA)                             | mg/kg |  |          |                              |         |              |         |                              |         |                              |          |
| E537M             | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg |  |          |                              |         |              |         |                              |         |                              |          |
| E537M             | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg |  |          |                              |         |              |         |                              |         |                              |          |
| E537M             | 375-95-1   | Perfluorononanoic Acid (PFNA)                             | mg/kg |  |          |                              |         |              |         |                              |         |                              |          |
| E537M             | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   |          |                              |         |              |         |                              |         |                              |          |
| E537M             | 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   |          |                              |         |              |         |                              |         |                              |          |
| E537M             | 376-06-7   | Perfluorotetradecanoic Acid (PFTeDA)                      | mg/kg |  |          |                              |         |              |         |                              |         |                              |          |
| E537M             | 2058-94-8  | Perfluoroundecanoic Acid (PFunda)                         | mg/kg |  |          |                              |         |              |         |                              |         |                              |          |
|                   |            | Metals and Cyanide  |       |  |          |                              |         |              |         |                              |         |                              |          |
| SW6010            | 7429-90-5  | Aluminum  | mg/kg |  | 2880     |                              | 2530    |              | 2740    |                              | 2240    |                              | 1920     |
| SW6010            | 7440-36-0  | Antimony  | mg/kg |  | 7.7 U    |                              | 6.8 U   |              | 8.7 U   |                              | 7.9 U   |                              | 7.3 U    |
| SW6010            | 7440-38-2  | Arsenic   | mg/kg | 16   | 7.9      |                              | 10.7    |              | 13.2    |                              | 5.2     |                              | 6.2      |
| SW6010            | 7440-39-3  | Barium  | mg/kg | 400  | 101      |                              | 75.6    |              | 44.1    |                              | 404     |                              | 443      |
| SW6010            | 7440-41-7  | Beryllium   | mg/kg | 590  | 0.919    |                              | 0.927   |              | 0.448   |                              | 0.552   |                              | 0.596    |
| SW6010            | 7440-43-9  | Cadmium   | mg/kg | 9.3  | 0.574 J  |                              | 0.452 J |              | 0.593 J |                              | 0.342 J |                              | 0.207 J  |
| SW6010            | 7440-70-2  | Calcium   | mg/kg | 6460   | 3390     |                              | 3390    |              | 22800   |                              | 3110    |                              | 2440     |
| SW6010            | 7440-47-3  | Chromium <sup>(3)</sup>                                   | mg/kg | 400  | 14.4     |                              | 9.2     |              | 14.7    |                              | 7.6     |                              | 6.5      |
| SW6010            | 7440-48-4  | Cobalt  | mg/kg |  | 8.3      |                              | 6.8     |              | 2.6 J   |                              | 6.1 J   |                              | 5.1 J    |
| SW6010            | 7440-50-8  | Copper  | mg/kg | 270  | 42       |                              | 37.8    |              | 54.9    |                              | 55.1    |                              | 43.8     |
| SW6010            | 7439-89-6  | Iron  | mg/kg |  | 33900    |                              | 30500   |              | 16800   |                              | 24300   |                              | 16200    |
| SW6010            | 7439-92-1  | Lead  | mg/kg | 1000   | 24.5     |                              | 22.7    |              | 219     |                              | 7.9     |                              | 3.5 J    |
| SW6010            | 7439-95-4  | Magnesium   | mg/kg |  | 1120     |                              | 519     |              | 12100   |                              | 400     |                              | 217      |
| SW6010            | 7439-96-5  | Manganese   | mg/kg | 10000  | 406      |                              | 374     |              | 165     |                              | 51.5    |                              | 22.5     |
| SW6010            | 7440-02-0  | Nickel  | mg/kg | 310  | 21.2     |                              | 16.7    |              | 7.8     |                              | 12.8    |                              | 11.9     |
| SW6010            | 7440-09-7  | Potassium   | mg/kg |  | 495      |                              | 314     |              | 320     |                              | 327     |                              | 253      |
| SW6010            | 7782-49-2  | Selenium  | mg/kg | 1500   | 12.8 U   |                              | 3.1     |              | 0.795 J |                              | 13.2 U  |                              | 1.9      |
| SW6010            | 7440-22-4  | Silver  | mg/kg | 1500   | 1.3 U    |                              | 1.1 U   |              | 1.5 U   |                              | 1.3 U   |                              | 1.2 U    |
| SW6010            | 7440-23-5  | Sodium  | mg/kg |  | 184      |                              | 114     |              | 96.7 J  |                              | 87.8 J  |                              | 82 J     |
| SW6010            | 7440-28-0  | Thallium  | mg/kg |  | 12.8 U   |                              | 11.3 U  |              | 1.5 U   |                              | 13.2 U  |                              | 1.2 U    |
| SW6010            | 7440-62-2  | Vanadium  | mg/kg |  | 11.7     |                              | 10.7    |              | 9.4     |                              | 17.4    |                              | 14.5     |
| SW6010            | 7440-66-6  | Zinc  | mg/kg | 10000  | 43.5     |                              | 30.5    |              | 117     |                              | 17.3    |                              | 9.4      |
| SW7471            | 7439-97-6  | Mercury   | mg/kg | 2.8  | 0.064    |                              | 0.07    |              | 2.6     |                              | 0.056   |                              | 0.029 J  |
| SW9012            | 57-12-5    | Cyanide, Total  | mg/kg | 27   | 1.24     |                              | 1.3     |              | 3.37    |                              | 1.68    |                              | 1.41     |
|                   |            | Pesticides  |       |  |          |                              |         |              |         |                              |         |                              |          |
| SW8081            | 72-54-8    | 4,4'-DDD  | mg/kg | 92   | 0.0048 U |                              | 0.027 U |              | 0.08 U  |                              | 0.047 U |                              | 0.0023 U |
| SW8081            | 50-29-3    | 4,4'-DDT  | mg/kg | 47   | 0.0048 U |                              | 0.027 U |              | 0.08 U  |                              | 0.047 U |                              | 0.0023 U |
| SW8081            | 309-00-2   | Aldrin  | mg/kg | 0.68   | 0.0044 J |                              | 0.027 U |              | 0.08 U  |                              | 0.047 U |                              | 0.0023 U |
| SW8081            | 319-84-6   | Alpha-BHC   | mg/kg | 3.4  | 0.0048 U |                              | 0.027 U |              | 0.08 U  |                              | 0.047 U |                              | 0.0023 U |
| SW8081            | 319-85-7   | Beta-BHC  | mg/kg | 3  | 0.0048 U |                              | 0.027 U |              | 0.08 U  |                              | 0.047 U |                              | 0.0023 U |
| SW8081            | 959-98-8   | Endosulfan (I <sup>(4)</sup> )                            | mg/kg | 200  | 0.0048 U |                              | 0.027 U |              | 0.08 U  |                              | 0.047 U |                              | 0.0023 U |
| SW8081            | 1031-07-8  | Endosulfan Sulfate <sup>(4)</sup>                         | mg/kg | 200  | 0.0048 U |                              | 0.027 U |              | 0.071 J |                              | 0.047 U |                              | 0.0023 U |
| SW8081            | 72-20-8    | Endrin  | mg/kg | 89   | 0.0048 U |                              | 0.027 U |              | 0.08 U  |                              | 0.047 U |                              | 0.0023 U |
| SW8081            | 7421-93-4  | Endrin Aldehyde   | mg/kg |  | 0.0048 U |                              | 0.027 U |              | 0.08 U  |                              | 0.047 U |                              | 0.0017 J |
| SW8081            | 53494-70-5 | Endrin Ketone   | mg/kg |  | 0.038    |                              | 0.027 U |              | 0.08 U  |                              | 0.047 U |                              | 0.0023 U |
| SW8081            | 5566-34-7  | Gamma-Chlordane   | mg/kg |  | 0.0048 U |                              | 0.027 U |              | 0.08 U  |                              | 0.047 U |                              | 0.0023 U |
| SW8081            | 1024-57-3  | Heptachlor Epoxide  | mg/kg |  | 0.0048 U |                              | 0.027 U |              | 0.08 U  |                              | 0.047 U |                              | 0.0023 U |
| SW8081            | 72-43-5    | Methoxychlor  | mg/kg |  | 0.0048 U |                              | 0.027 U |              | 0.35    |                              | 0.047 U |                              | 0.0023 U |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |             | Location ID                 |       | Field Sample ID  |  | TP-13-2020                   |  | TP-13-2020                   |  | TP-13-2020                  |  | TP-14-2020                   |  | TP-14-2020                   |  |
|-------------------|-------------|-----------------------------|-------|--|--|------------------------------|--|------------------------------|--|-----------------------------|--|------------------------------|--|------------------------------|--|
|                   |             |                             |       |  |  | TP-13-2020-0.0-0.16-06232021 |  | TP-13-2020-0.16-1.0-06232021 |  | TP-13-2020-4.0-5.0-06242021 |  | TP-14-2020-0.0-0.16-06242021 |  | TP-14-2020-0.16-1.0-06242021 |  |
|                   |             |                             |       |  |  | 0                            |  | 0.16                         |  | 4                           |  | 0                            |  | 0.16                         |  |
|                   |             |                             |       |  |  | End Depth (ft)               |  | 1                            |  | 5                           |  | 0.16                         |  | 1                            |  |
|                   |             |                             |       |  |  | Sampled                      |  | 6/23/2021                    |  | 6/24/2021                   |  | 6/24/2021                    |  | 6/24/2021                    |  |
|                   |             |                             |       |  |  | SDG                          |  | R2106353                     |  | R2106353                    |  | R2106353                     |  | R2106353                     |  |
|                   |             |                             |       |  |  | Lab Sample ID                |  | R2106353-002                 |  | R2106353-003                |  | R2106353-004                 |  | R2106353-005                 |  |
|                   |             |                             |       |  |  | Sample Type                  |  | REG                          |  | REG                         |  | REG                          |  | REG                          |  |
|                   |             |                             |       |  |  | Matrix                       |  | SOIL                         |  | SOIL                        |  | SOIL                         |  | SOIL                         |  |
| Analytical Method | CAS_RN      | Chemical Name               | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |  |                              |  |                              |  |                             |  |                              |  |                              |  |
|                   |             | PCBs                        |       |  |  |                              |  |                              |  |                             |  |                              |  |                              |  |
| SW8082            | 12672-29-6  | Aroclor-1248                | mg/kg | 1  |  | 0.094 U                      |  | 0.052 U                      |  | 0.16 U                      |  | 0.092 U                      |  | 0.044 U                      |  |
| SW8082            | 11097-69-1  | Aroclor-1254                | mg/kg | 1  |  | 0.094 U                      |  | 0.052 U                      |  | 0.16 U                      |  | 0.092 U                      |  | 0.044 U                      |  |
| SW8082            | 11096-82-5  | Aroclor-1260                | mg/kg | 1  |  | 0.094 U                      |  | 0.052 U                      |  | 0.16 U                      |  | 0.092 U                      |  | 0.044 U                      |  |
|                   |             | Total PCBs <sup>(1)</sup>   |       | 1  |  | 0.094 U                      |  | 0.052 U                      |  | 0.16 U                      |  | 0.092 U                      |  | 0.044 U                      |  |
|                   |             | Volatiles                   |       |  |  |                              |  |                              |  |                             |  |                              |  |                              |  |
| SW8260            | 71-55-6     | 1,1,1-Trichloroethane       | mg/kg | 500  |  | 0.013 U                      |  | 0.013 U                      |  | 1.1 U                       |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 75-34-3     | 1,1-Dichloroethane          | mg/kg | 240  |  | 0.013 U                      |  | 0.013 U                      |  | 1.1 U                       |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 78-93-3     | 2-Butanone                  | mg/kg | 500  |  | 0.013 U                      |  | 0.013 U                      |  | 1.1 U                       |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 67-64-1     | Acetone                     | mg/kg | 500  |  | 0.065 U                      |  | 0.064 U                      |  | 5.7 U                       |  | 0.062 U                      |  | 0.06 U                       |  |
| SW8260            | 71-43-2     | Benzene                     | mg/kg | 44   |  | 0.013 U                      |  | 0.00065 J                    |  | 2                           |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 74-83-9     | Bromomethane                | mg/kg |  |  | 0.013 U                      |  | 0.013 U                      |  | 1.1 U                       |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 75-15-0     | Carbon Disulfide            | mg/kg |  |  | 0.013 U                      |  | 0.013 U                      |  | 1.1 U                       |  | 0.012 U                      |  | 0.0015 J                     |  |
| SW8260            | 67-66-3     | Chloroform                  | mg/kg | 350  |  | 0.00058 J                    |  | 0.0006 J                     |  | 1.1 U                       |  | 0.012 U                      |  | 0.00049 J                    |  |
| SW8260            | 74-87-3     | Chloromethane               | mg/kg |  |  | 0.013 U                      |  | 0.013 U                      |  | 1.1 U                       |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 156-59-2    | cis-1,2-Dichloroethene      | mg/kg | 500  |  | 0.013 U                      |  | 0.013 U                      |  | 1.1 U                       |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 110-82-7    | Cyclohexane                 | mg/kg |  |  | 0.013 U                      |  | 0.0012 J                     |  | 1.1 U                       |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 100-41-4    | Ethylbenzene                | mg/kg | 390  |  | 0.013 U                      |  | 0.013 U                      |  | 18                          |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 98-82-8     | Isopropylbenzene            | mg/kg |  |  | 0.013 U                      |  | 0.013 U                      |  | 5.7                         |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | XYLENES1314 | m&p-Xylenes                 | mg/kg | 500  |  | 0.026 U                      |  | 0.026 U                      |  | 27                          |  | 0.025 U                      |  | 0.024 U                      |  |
| SW8260            | 79-20-9     | Methyl Acetate              | mg/kg |  |  | 0.013 U                      |  | 0.013 U                      |  | 1.1 U                       |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 1634-04-4   | Methyl Tert-Butyl Ether     | mg/kg | 500  |  | 0.013 U                      |  | 0.013 U                      |  | 1.1 U                       |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 108-87-2    | Methylcyclohexane           | mg/kg |  |  | 0.013 U                      |  | 0.002 J                      |  | 0.67 J                      |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 75-09-2     | Methylene Chloride          | mg/kg | 500  |  | 0.013 U                      |  | 0.013 U                      |  | 1.1 U                       |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 95-47-6     | o-Xylene                    | mg/kg | 500  |  | 0.013 U                      |  | 0.013 U                      |  | 12                          |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 100-42-5    | Styrene                     | mg/kg |  |  | 0.013 U                      |  | 0.013 U                      |  | 1.1 U                       |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 108-88-3    | Toluene                     | mg/kg | 500  |  | 0.013 U                      |  | 0.013 U                      |  | 5.5                         |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 1330-20-7   | Total Xylenes               | mg/kg | 500  |  | 0.026 U                      |  | 0.026 U                      |  | 39                          |  | 0.025 U                      |  | 0.024 U                      |  |
| SW8260            | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg | 500  |  | 0.013 U                      |  | 0.013 U                      |  | 1.1 U                       |  | 0.012 U                      |  | 0.012 U                      |  |
| SW8260            | 79-01-6     | Trichloroethene             | mg/kg | 200  |  | 0.013 U                      |  | 0.013 U                      |  | 1.1 U                       |  | 0.012 U                      |  | 0.012 U                      |  |
|                   |             | Semivolatiles               |       |  |  |                              |  |                              |  |                             |  |                              |  |                              |  |
| SW8270            | 92-52-4     | 1,1'-Biphenyl               | mg/kg |  |  | 2 U                          |  | 2.2 U                        |  | 470 U                       |  | 0.46 U                       |  | 0.43 U                       |  |
| SW8270            | 105-67-9    | 2,4-Dimethylphenol          | mg/kg |  |  | 0.58 J                       |  | 2.2 U                        |  | 470 U                       |  | 0.46 U                       |  | 0.43 U                       |  |
| SW8270            | 91-57-6     | 2-Methylnaphthalene         | mg/kg |  |  | 3.1 J                        |  | 2.3                          |  | 660                         |  | 0.14 J                       |  | 0.43 U                       |  |
| SW8270            | 95-48-7     | 2-Methylphenol              | mg/kg | 500  |  | 0.73 J                       |  | 2.2 U                        |  | 470 U                       |  | 0.46 U                       |  | 0.43 U                       |  |
| SW8270            | 34METPH     | 3&4-Methylphenol            | mg/kg | 500  |  | 1.5 J                        |  | 0.86 J                       |  | 470 U                       |  | 0.46 U                       |  | 0.43 U                       |  |
| SW8270            | 100-01-6    | 4-Nitroaniline              | mg/kg |  |  | 10 U                         |  | 11 U                         |  | 2400 U                      |  | 2.4 U                        |  | 2.2 U                        |  |
| SW8270            | 98-86-2     | Acetophenone                | mg/kg |  |  | 2 U                          |  | 2.2 U                        |  | 470 U                       |  | 0.46 U                       |  | 0.43 U                       |  |
| SW8270            | 100-52-7    | Benzaldehyde                | mg/kg |  |  | 10 U                         |  | 11 U                         |  | 2400 U                      |  | 2.4 U                        |  | 2.2 U                        |  |
| SW8270            | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg |  |  | 3 U                          |  | 3.3 U                        |  | 710 U                       |  | 0.7 U                        |  | 0.65 U                       |  |
| SW8270            | 86-74-8     | Carbazole                   | mg/kg |  |  | 0.74 J                       |  | 0.68 J                       |  | 470 U                       |  | 0.11 J                       |  | 0.43 U                       |  |
| SW8270            | 84-66-2     | Diethyl Phthalate           | mg/kg |  |  | 2 U                          |  | 2.2 U                        |  | 470 U                       |  | 0.46 U                       |  | 0.43 U                       |  |
| SW8270            | 131-11-3    | Dimethyl Phthalate          | mg/kg |  |  | 2 U                          |  | 2.2 U                        |  | 470 U                       |  | 0.46 U                       |  | 0.43 U                       |  |
| SW8270            | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg |  |  | 2 U                          |  | 2.2 U                        |  | 470 U                       |  | 0.46 U                       |  | 0.43 U                       |  |
| SW8270            | 86-30-6     | n-Nitrosodiphenylamine      | mg/kg |  |  | 2 U                          |  | 2.2 U                        |  | 470 U                       |  | 0.46 U                       |  | 0.43 U                       |  |
| SW8270            | 108-95-2    | Phenol                      | mg/kg | 500  |  | 1.1 J                        |  | 2.2 U                        |  | 470 U                       |  | 0.46 U                       |  | 0.43 U                       |  |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |          |                           |       | Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>SDG<br>Lab Sample ID<br>Sample Type<br>Matrix | TP-13-2020<br>TP-13-2020-0.0-0.16-06232021<br>0<br>0.16<br>6/23/2021<br>R2106353<br>R2106353-002<br>REG<br>SOIL | TP-13-2020<br>TP-13-2020-0.16-1.0-06232021<br>0.16<br>1<br>6/23/2021<br>R2106353<br>R2106353-003<br>REG<br>SOIL | TP-13-2020<br>TP-13-2020-4.0-5.0-06242021<br>4<br>5<br>6/24/2021<br>R2106353<br>R2106353-004<br>REG<br>SOIL | TP-14-2020<br>TP-14-2020-0.0-0.16-06242021<br>0<br>0.16<br>6/24/2021<br>R2106353<br>R2106353-005<br>REG<br>SOIL | TP-14-2020<br>TP-14-2020-0.16-1.0-06242021<br>0.16<br>1<br>6/24/2021<br>R2106353<br>R2106353-006<br>REG<br>SOIL |
|-------------------|----------|---------------------------|-------|--|---|---|---|---|---|
| Analytical Method | CAS_RN   | Chemical Name             | Unit  | Soil Cleanup<br>Objective (SCO) for<br>Commercial Use <sup>(1)</sup>   |   |   |   |   |   |
|                   |          | PAHs                      |       |  |   |   |   |   |   |
| SW8270            | 83-32-9  | Acenaphthene              | mg/kg | 500  | 2 UJ  | 2.2 U   | 430 J   | 0.46 UJ   | 0.43 U  |
| SW8270            | 208-96-8 | Acenaphthylene            | mg/kg | 500  | 2.6 J   | 2.6   | 470 U   | 0.38 J  | 0.43 U  |
| SW8270            | 120-12-7 | Anthracene                | mg/kg | 500  | 3.5 J   | 2.5   | 150 J   | 0.39 J  | 0.43 U  |
| SW8270            | 56-55-3  | Benzo(A)Anthracene        | mg/kg | 5.6  | 12 J  | 9.1   | 180 J   | 1.6 J   | 0.19 J  |
| SW8270            | 50-32-8  | Benzo(A)Pyrene            | mg/kg | 1  | 14 J  | 15  | 170 J   | 2.6 J   | 0.27 J  |
| SW8270            | 205-99-2 | Benzo(B)Fluoranthene      | mg/kg | 5.6  | 16 J  | 19  | 200 J   | 3.1 J   | 0.33 J  |
| SW8270            | 191-24-2 | Benzo(G,H,I)perylene      | mg/kg | 500  | 7.4 J   | 7.3   | 470 U   | 1.6 J   | 0.13 J  |
| SW8270            | 207-08-9 | Benzo(K)Fluoranthene      | mg/kg | 56   | 5.6 J   | 5.7   | 79 J  | 1.1 J   | 0.11 J  |
| SW8270            | 218-01-9 | Chrysene                  | mg/kg | 56   | 11 J  | 9.7   | 170 J   | 1.9 J   | 0.26 J  |
| SW8270            | 53-70-3  | Dibenzo(a,h)Anthracene    | mg/kg | 0.56   | 2.3 J   | 2.5   | 470 U   | 0.42 J  | 0.43 U  |
| SW8270            | 132-64-9 | Dibenzofuran              | mg/kg | 350  | 1.3 J   | 1.5 J   | 170 J   | 0.086 J   | 0.43 U  |
| SW8270            | 206-44-0 | Fluoranthene              | mg/kg | 500  | 22 J  | 9.5   | 490   | 2.1 J   | 0.25 J  |
| SW8270            | 86-73-7  | Fluorene                  | mg/kg | 500  | 1.1 J   | 2.2 U   | 220 J   | 0.46 UJ   | 0.43 U  |
| SW8270            | 193-39-5 | Indeno(1,2,3-Cd)Pyrene    | mg/kg | 5.6  | 8.4 J   | 8.6   | 470 U   | 1.7 J   | 0.43 U  |
| SW8270            | 91-20-3  | Naphthalene               | mg/kg | 500  | 14 J  | 3.5 J   | 8500 J  | 0.28 J  | 0.43 UJ   |
| SW8270            | 85-01-8  | Phenanthrene              | mg/kg | 500  | 12 J  | 6.2   | 520   | 0.68 J  | 0.17 J  |
| SW8270            | 129-00-0 | Pyrene                    | mg/kg | 500  | 19 J  | 10  | 330 J   | 2.1 J   | 0.21 J  |
|                   |          | Total PAHs <sup>(5)</sup> | mg/kg | 500  | 150   | 110   | 12000   | 20  | 1.9   |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.

(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs

|                   |           |   |       | Location ID  | TP-14-2020                  | TP-14-2020                   | TP-15-2020                   | TP-15-2020                   | TP-15-2020                  |
|-------------------|-----------|---|-------|--|-----------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|
|                   |           |   |       | Field Sample ID  | TP-14-2020-2.5-3.0-06242021 | TP-14-2020-3.25-4.0-06242021 | TP-15-2020-0.0-0.16-06242021 | TP-15-2020-0.16-1.0-06242021 | TP-15-2020-2.0-2.5-06242021 |
|                   |           |   |       | Start Depth (ft)   | 2.5                         | 3.25                         | 0                            | 0.16                         | 2                           |
|                   |           |   |       | End Depth (ft)   | 3                           | 4                            | 0.16                         | 1                            | 2.5                         |
|                   |           |   |       | Sampled  | 6/24/2021                   | 6/24/2021                    | 6/24/2021                    | 6/24/2021                    | 6/24/2021                   |
|                   |           |   |       | SDG  | R2106414                    | R2106353                     | R2106414                     | R2106414                     | R2106414                    |
|                   |           |   |       | Lab Sample ID  | R2106414-001                | R2106353-007                 | R2106414-002                 | R2106414-003                 | R2106414-004                |
|                   |           |   |       | Sample Type  | REG                         | REG                          | REG                          | REG                          | REG                         |
|                   |           |   |       | Matrbx   | SOIL                        | SOIL                         | SOIL                         | SOIL                         | SOIL                        |
|                   |           |   |       |  |                             |                              |                              |                              |                             |
| Analytical Method | CAS_RN    | Chemical Name   | Unit  | Soli Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |                             |                              |                              |                              |                             |
| E160.3            | SOLID     | Solids  | %     |  |                             |                              |                              |                              |                             |
| E160.3            | SOLIDS    | Total Solids  | %     |  | 72.1                        | 47.7                         | 43.1                         | 62.8                         | 72.5                        |
|                   |           | PFAS  |       |  |                             |                              |                              |                              |                             |
| E537M             | 2991-50-6 | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg |  |                             |                              |                              |                              |                             |
| E537M             | 375-22-4  | Perfluorobutanoic Acid (PFBA)                             | mg/kg |  |                             |                              |                              |                              |                             |
| E537M             | 335-76-2  | Perfluorodecanoic acid (PFDA)                             | mg/kg |  |                             |                              |                              |                              |                             |
| E537M             | 375-85-9  | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg |  |                             |                              |                              |                              |                             |
| E537M             | 355-46-4  | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg |  |                             |                              |                              |                              |                             |
| E537M             | 375-95-1  | Perfluorononanoic Acid (PFNA)                             | mg/kg |  |                             |                              |                              |                              |                             |
| E537M             | 1763-23-1 | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   |                             |                              |                              |                              |                             |
| E537M             | 335-67-1  | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   |                             |                              |                              |                              |                             |
| E537M             | 376-06-7  | Perfluorotetradecanoic Acid (PFTeDA)                      | mg/kg |  |                             |                              |                              |                              |                             |
| E537M             | 2058-94-8 | Perfluoroundecanoic Acid (PFunda)                         | mg/kg |  |                             |                              |                              |                              |                             |
|                   |           | Metals and Cyanide  |       |  |                             |                              |                              |                              |                             |
| SW6010            | 7429-90-5 | Aluminum  | mg/kg |  | 1360                        | 2260 J                       | 6490 J                       | 4520                         | 2660                        |
| SW6010            | 7440-36-0 | Antimony  | mg/kg |  | 7.9 U                       | 3.1 J                        | 13.4 UJ                      | 9 U                          | 8.3 U                       |
| SW6010            | 7440-38-2 | Arsenic   | mg/kg | 16   | 6.2                         | 21.9 J                       | 10.3 J                       | 8.4 J                        | 9.8                         |
| SW6010            | 7440-39-3 | Barium  | mg/kg | 400  | 66.2                        | 75.1 J                       | 128 J                        | 381 J                        | 97.8                        |
| SW6010            | 7440-41-7 | Beryllium   | mg/kg | 590  | 0.196 J                     | 0.282 J                      | 1.5 J                        | 0.856                        | 0.372 J                     |
| SW6010            | 7440-43-9 | Cadmium   | mg/kg | 9.3  | 0.209 J                     | 0.222 J                      | 0.669 J                      | 0.361 J                      | 0.345 J                     |
| SW6010            | 7440-70-2 | Calcium   | mg/kg | 986  | 986                         | 36500 J                      | 5350 J                       | 1810                         | 3310                        |
| SW6010            | 7440-47-3 | Chromium <sup>(3)</sup>                                   | mg/kg | 400  | 10.8                        | 81.1 J                       | 18.2 J                       | 14.7                         | 12.9                        |
| SW6010            | 7440-48-4 | Cobalt  | mg/kg |  | 2.2 J                       | 1.9 J                        | 5.2 J                        | 3.8 J                        | 2.9 J                       |
| SW6010            | 7440-50-8 | Copper  | mg/kg | 270  | 27.1                        | 98.6 J                       | 93.3 J                       | 58.9 J                       | 75.7                        |
| SW6010            | 7439-89-6 | Iron  | mg/kg |  | 14000                       | 4730 J                       | 28300 J                      | 20300                        | 21000                       |
| SW6010            | 7439-92-1 | Lead  | mg/kg | 1000   | 13.3                        | 204 J                        | 37.7 J                       | 36.9                         | 102                         |
| SW6010            | 7439-95-4 | Magnesium   | mg/kg |  | 147                         | 192 J                        | 626 J                        | 541 J                        | 260                         |
| SW6010            | 7439-96-5 | Manganese   | mg/kg | 10000  | 18.8                        | 29 J                         | 242 J                        | 57.9                         | 48.6                        |
| SW6010            | 7440-02-0 | Nickel  | mg/kg | 310  | 7.2                         | 19.5 J                       | 26.2 J                       | 13.3                         | 13.7                        |
| SW6010            | 7440-09-7 | Potassium   | mg/kg |  | 421                         | 264 J                        | 417 J                        | 404                          | 783                         |
| SW6010            | 7782-49-2 | Selenium  | mg/kg | 1500   | 1.3 U                       | 12.3 J                       | 2.2 UJ                       | 0.946 J                      | 1.4 U                       |
| SW6010            | 7440-22-4 | Silver  | mg/kg | 1500   | 1.3 U                       | 2 UJ                         | 2.2 UJ                       | 1.5 U                        | 1.4 U                       |
| SW6010            | 7440-23-5 | Sodium  | mg/kg |  | 73.1 J                      | 115 J                        | 170 J                        | 84.3 J                       | 225                         |
| SW6010            | 7440-28-0 | Thallium  | mg/kg |  | 1.3 U                       | 11.2 J                       | 2.2 UJ                       | 1.5 U                        | 1.4 U                       |
| SW6010            | 7440-62-2 | Vanadium  | mg/kg |  | 15.5                        | 46.1 J                       | 15.4 J                       | 20.5                         | 18.1                        |
| SW6010            | 7440-66-6 | Zinc  | mg/kg | 10000  | 6.9                         | 13.8 J                       | 102 J                        | 35.9                         | 42.7                        |
| SW7471            | 7439-97-6 | Mercury   | mg/kg | 2.8  | 0.135                       | 1.8 J                        | 0.311 J                      | 0.214                        | 0.801                       |
| SW9012            | 57-12-5</ |   |       |  |                             |                              |                              |                              |                             |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

| Location ID       |             |                             |       |  | TP-14-2020                  | TP-14-2020                   | TP-15-2020                   | TP-15-2020                   | TP-15-2020                  |
|-------------------|-------------|-----------------------------|-------|--|-----------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|
| Field Sample ID   |             |                             |       |  | TP-14-2020-2.5-3.0-06242021 | TP-14-2020-3.25-4.0-06242021 | TP-15-2020-0.0-0.16-06242021 | TP-15-2020-0.16-1.0-06242021 | TP-15-2020-2.0-2.5-06242021 |
| Start Depth (ft)  |             |                             |       |  | 2.5                         | 3.25                         | 0                            | 0.16                         | 2                           |
| End Depth (ft)    |             |                             |       |  | 3                           | 4                            | 0.16                         | 1                            | 2.5                         |
| Sampled           |             |                             |       |  | 6/24/2021                   | 6/24/2021                    | 6/24/2021                    | 6/24/2021                    | 6/24/2021                   |
| SDG               |             |                             |       |  | R2106414                    | R2106353                     | R2106414                     | R2106414                     | R2106414                    |
| Lab Sample ID     |             |                             |       |  | R2106414-001                | R2106353-007                 | R2106414-002                 | R2106414-003                 | R2106414-004                |
| Sample Type       |             |                             |       |  | REG                         | REG                          | REG                          | REG                          | REG                         |
| Matrx             |             |                             |       |  | SOIL                        | SOIL                         | SOIL                         | SOIL                         | SOIL                        |
|                   |             |                             |       | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |                             |                              |                              |                              |                             |
| Analytical Method | CAS_RN      | Chemical Name               | Unit  |  |                             |                              |                              |                              |                             |
|                   |             | PCBs                        |       |  |                             |                              |                              |                              |                             |
| SW8082            | 12672-29-6  | Aroclor-1248                | mg/kg | 1  | 0.048 U                     | 0.14 U                       | 0.098 U                      | 0.055 U                      | 0.047 U                     |
| SW8082            | 11097-69-1  | Aroclor-1254                | mg/kg | 1  | 0.048 U                     | 0.14 U                       | 0.098 U                      | 0.055 U                      | 0.047 U                     |
| SW8082            | 11096-82-5  | Aroclor-1260                | mg/kg | 1  | 0.048 U                     | 0.14 U                       | 0.098 U                      | 0.055 U                      | 0.047 U                     |
|                   |             | Total PCBs <sup>(5)</sup>   |       | 1  | 0.048 U                     | 0.14 U                       | 0.098 U                      | 0.055 U                      | 0.047 U                     |
|                   |             | Volatiles                   |       |  |                             |                              |                              |                              |                             |
| SW8260            | 71-55-6     | 1,1,1-Trichloroethane       | mg/kg | 500  | 0.01 U                      | 0.018 U                      | 0.02 U                       | 0.012 U                      | 0.011 U                     |
| SW8260            | 75-34-3     | 1,1-Dichloroethane          | mg/kg | 240  | 0.01 U                      | 0.018 U                      | 0.02 U                       | 0.012 U                      | 0.011 U                     |
| SW8260            | 78-93-3     | 2-Butanone                  | mg/kg | 500  | 0.01 U                      | 0.031 U                      | 0.025 U                      | 0.012 U                      | 0.011 U                     |
| SW8260            | 67-64-1     | Acetone                     | mg/kg | 500  | 0.051 U                     | 0.1                          | 0.34                         | 0.075                        | 0.037 J                     |
| SW8260            | 71-43-2     | Benzene                     | mg/kg | 44   | 0.01 U                      | 0.024 U                      | 0.02 U                       | 0.012 U                      | 0.00062 J                   |
| SW8260            | 74-83-9     | Bromomethane                | mg/kg |  | 0.01 U                      | 0.018 U                      | 0.023                        | 0.012 U                      | 0.011 U                     |
| SW8260            | 75-15-0     | Carbon Disulfide            | mg/kg |  | 0.0019 J                    | 98                           | 0.02 U                       | 0.0007 J                     | 0.011 U                     |
| SW8260            | 67-66-3     | Chloroform                  | mg/kg | 350  | 0.01 U                      | 0.018 U                      | 0.0011 J                     | 0.012 U                      | 0.011 U                     |
| SW8260            | 74-87-3     | Chloromethane               | mg/kg |  | 0.01 U                      | 0.018 U                      | 0.0074 J                     | 0.012 U                      | 0.011 U                     |
| SW8260            | 156-59-2    | cis-1,2-Dichloroethene      | mg/kg | 500  | 0.01 U                      | 0.018 U                      | 0.02 U                       | 0.012 U                      | 0.011 U                     |
| SW8260            | 110-82-7    | Cyclohexane                 | mg/kg |  | 0.01 U                      | 0.0019 J                     | 0.02 U                       | 0.012 U                      | 0.00084 J                   |
| SW8260            | 100-41-4    | Ethylbenzene                | mg/kg | 390  | 0.01 U                      | 0.018 U                      | 0.02 U                       | 0.012 U                      | 0.011 U                     |
| SW8260            | 98-82-8     | Isopropylbenzene            | mg/kg |  | 0.01 U                      | 0.018 U                      | 0.02 U                       | 0.012 U                      | 0.011 U                     |
| SW8260            | XYLENES1314 | m&p-Xylenes                 | mg/kg | 500  | 0.021 U                     | 0.035 U                      | 0.039 U                      | 0.023 U                      | 0.023 U                     |
| SW8260            | 79-20-9     | Methyl Acetate              | mg/kg |  | 0.01 U                      | 0.018 U                      | 9.7 J                        | 0.012 U                      | 0.011 U                     |
| SW8260            | 1634-04-4   | Methyl Tert-Butyl Ether     | mg/kg | 500  | 0.00044 J                   | 0.018 U                      | 0.02 U                       | 0.012 U                      | 0.011 U                     |
| SW8260            | 108-87-2    | Methylcyclohexane           | mg/kg |  | 0.01 U                      | 0.0044 J                     | 0.0025 J                     | 0.012 U                      | 0.00084 J                   |
| SW8260            | 75-09-2     | Methylene Chloride          | mg/kg | 500  | 0.0086 J                    | 0.018 U                      | 0.017 J                      | 0.012 U                      | 0.011 U                     |
| SW8260            | 95-47-6     | o-Xylene                    | mg/kg | 500  | 0.01 U                      | 0.018 U                      | 0.02 U                       | 0.012 U                      | 0.011 U                     |
| SW8260            | 100-42-5    | Styrene                     | mg/kg |  | 0.01 U                      | 0.018 U                      | 0.02 U                       | 0.012 U                      | 0.011 U                     |
| SW8260            | 108-88-3    | Toluene                     | mg/kg | 500  | 0.01 U                      | 0.018 U                      | 0.02 U                       | 0.012 U                      | 0.011 U                     |
| SW8260            | 1330-20-7   | Total Xylenes               | mg/kg | 500  | 0.021 U                     | 0.035 U                      | 0.039 U                      | 0.023 U                      | 0.023 U                     |
| SW8260            | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg | 500  | 0.01 U                      | 0.018 U                      | 0.02 U                       | 0.012 U                      | 0.011 U                     |
| SW8260            | 79-01-6     | Trichloroethene             | mg/kg | 200  | 0.01 U                      | 0.018 U                      | 0.02 U                       | 0.012 U                      | 0.011 U                     |
|                   |             | Semivolatiles               |       |  |                             |                              |                              |                              |                             |
| SW8270            | 92-52-4     | 1,1'-Biphenyl               | mg/kg |  | 0.79 U                      | 0.74                         | 1.6 U                        | 1.3 U                        | 0.95 U                      |
| SW8270            | 105-67-9    | 2,4-Dimethylphenol          | mg/kg |  | 0.79 U                      | 0.52 J                       | 1.6 U                        | 1.3 U                        | 0.95 U                      |
| SW8270            | 91-57-6     | 2-Methylnaphthalene         | mg/kg |  | 0.17 J                      | 3.6                          | 1.4 J                        | 0.4 J                        | 0.68 J                      |
| SW8270            | 95-48-7     | 2-Methylphenol              | mg/kg | 500  | 0.79 U                      | 0.39 J                       | 1.6 U                        | 1.3 U                        | 0.95 U                      |
| SW8270            | 34METPH     | 3&4-Methylphenol            | mg/kg | 500  | 0.79 U                      | 1.3                          | 1.6 U                        | 1.3 U                        | 0.95 U                      |
| SW8270            | 100-01-6    | 4-Nitroaniline              | mg/kg |  | 4.1 U                       | 3.8 U                        | 8.2 U                        | 6.5 U                        | 4.9 U                       |
| SW8270            | 98-86-2     | Acetophenone                | mg/kg |  | 0.79 U                      | 0.73 U                       | 1.6 U                        | 1.3 U                        | 0.95 U                      |
| SW8270            | 100-52-7    | Benzaldehyde                | mg/kg |  | 4.1 U                       | 3.8 U                        | 8.2 U                        | 6.5 U                        | 4.9 U                       |
| SW8270            | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg |  | 1.2 U                       | 1.1 U                        | 0.62 J                       | 1.9 U                        | 1.4 U                       |
| SW8270            | 86-74-8     | Carbazole                   | mg/kg |  | 0.79 U                      | 4                            | 1.1 J                        | 0.26 J                       | 0.54 J                      |
| SW8270            | 84-66-2     | Diethyl Phthalate           | mg/kg |  | 0.79 U                      | 0.73 U                       | 1.6 U                        | 1.3 U                        | 0.95 U                      |
| SW8270            | 131-11-3    | Dimethyl Phthalate          | mg/kg |  | 0.79 U                      | 0.73 U                       | 1.6 U                        | 1.3 U                        | 0.95 U                      |
| SW8270            | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg |  | 0.79 U                      | 0.73 U                       | 1.6 U                        | 1.3 U                        | 0.95 U                      |
| SW8270            | 86-30-6     | n-Nitrosodiphenylamine      | mg/kg |  | 0.79 U                      | 0.73 U                       | 1.6 U                        | 1.3 U                        | 0.95 U                      |
| SW8270            | 108-95-2    | Phenol                      | mg/kg | 500  | 0.79 U                      | 0.27 J                       | 1.6 U                        | 1.3 U                        | 0.95 U                      |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |          | Location ID               |       | TP-14-2020   |        | TP-14-2020                   |        | TP-15-2020                   |        | TP-15-2020                   |  | TP-15-2020                  |  |
|-------------------|----------|---------------------------|-------|--|--------|------------------------------|--------|------------------------------|--------|------------------------------|--|-----------------------------|--|
|                   |          | Field Sample ID           |       | TP-14-2020-2.5-3.0-06242021                                    |        | TP-14-2020-3.25-4.0-06242021 |        | TP-15-2020-0.0-0.16-06242021 |        | TP-15-2020-0.16-1.0-06242021 |  | TP-15-2020-2.0-2.5-06242021 |  |
|                   |          | Start Depth (ft)          |       | 2.5  |        | 3.25                         |        | 0                            |        | 0.16                         |  | 2                           |  |
|                   |          | End Depth (ft)            |       | 3  |        | 4                            |        | 0.16                         |        | 1                            |  | 2.5                         |  |
|                   |          | Sampled                   |       | 6/24/2021  |        | 6/24/2021                    |        | 6/24/2021                    |        | 6/24/2021                    |  | 6/24/2021                   |  |
|                   |          | SDG                       |       | R2106414   |        | R2106353                     |        | R2106414                     |        | R2106414                     |  | R2106414                    |  |
|                   |          | Lab Sample ID             |       | R2106414-001   |        | R2106353-007                 |        | R2106414-002                 |        | R2106414-003                 |  | R2106414-004                |  |
|                   |          | Sample Type               |       | REG  |        | REG                          |        | REG                          |        | REG                          |  | REG                         |  |
|                   |          | Matrix                    |       | SOIL   |        | SOIL                         |        | SOIL                         |        | SOIL                         |  | SOIL                        |  |
| Analytical Method | CAS_RN   | Chemical Name             | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |        |                              |        |                              |        |                              |  |                             |  |
| SW8270            | 83-32-9  | PAHs                      | mg/kg | 500  | 0.79 U | 0.63 J                       | 0.45 J | 0.28 J                       | 0.35 J |                              |  |                             |  |
| SW8270            | 208-96-8 | Acenaphthene              | mg/kg | 500  | 0.16 J | 1.2                          | 3.1    | 0.56 J                       | 0.64 J |                              |  |                             |  |
| SW8270            | 120-12-7 | Acenaphthylene            | mg/kg | 500  | 0.24 J | 2.4                          | 3.8    | 0.67 J                       | 1.1    |                              |  |                             |  |
| SW8270            | 56-55-3  | Anthracene                | mg/kg | 5.6  | 0.86   | 6                            | 12     | 2.8                          | 2.3    |                              |  |                             |  |
| SW8270            | 50-32-8  | Benzo(A)Anthracene        | mg/kg | 1  | 0.95   | 6.1                          | 18     | 4.6                          | 2.8    |                              |  |                             |  |
| SW8270            | 205-99-2 | Benzo(B)Fluoranthene      | mg/kg | 5.6  | 1.2    | 10                           | 21     | 5                            | 3.8    |                              |  |                             |  |
| SW8270            | 191-24-2 | Benzo(G,H,I)perylene      | mg/kg | 500  | 0.58 J | 3.1                          | 11     | 3.1                          | 1.8    |                              |  |                             |  |
| SW8270            | 207-08-9 | Benzo(K)Fluoranthene      | mg/kg | 56   | 0.46 J | 3.1                          | 7.1    | 1.9                          | 1.4    |                              |  |                             |  |
| SW8270            | 218-01-9 | Chrysene                  | mg/kg | 56   | 0.87   | 7.4                          | 15     | 3.5                          | 2.6    |                              |  |                             |  |
| SW8270            | 53-70-3  | Dibenzo(a,h)Anthracene    | mg/kg | 0.56   | 0.79 U | 1                            | 2.7    | 0.64 J                       | 0.54 J |                              |  |                             |  |
| SW8270            | 132-64-9 | Dibenzofuran              | mg/kg | 350  | 0.79 U | 2.9                          | 0.98 J | 0.28 J                       | 0.74 J |                              |  |                             |  |
| SW8270            | 206-44-0 | Fluoranthene              | mg/kg | 500  | 1.4    | 12                           | 21     | 4.6                          | 4.5    |                              |  |                             |  |
| SW8270            | 86-73-7  | Fluorene                  | mg/kg | 500  | 0.79 U | 3.4                          | 0.59 J | 1.3 U                        | 0.77 J |                              |  |                             |  |
| SW8270            | 193-39-5 | Indeno(1,2,3-Cd)Pyrene    | mg/kg | 5.6  | 0.62 J | 3.8                          | 13     | 3.2                          | 2.1    |                              |  |                             |  |
| SW8270            | 91-20-3  | Naphthalene               | mg/kg | 500  | 0.29 J | 20 J                         | 2.6    | 0.78 J                       | 4.4    |                              |  |                             |  |
| SW8270            | 85-01-8  | Phenanthrene              | mg/kg | 500  | 0.91   | 8.1                          | 8.2    | 2.1                          | 3.6    |                              |  |                             |  |
| SW8270            | 129-00-0 | Pyrene                    | mg/kg | 500  | 1.1    | 8.4                          | 20     | 4.5                          | 3.6    |                              |  |                             |  |
|                   |          | Total PAHs <sup>(5)</sup> | mg/kg | 500  | 9.6    | 100                          | 160    | 39                           | 37     |                              |  |                             |  |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.

(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs



TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |            |   |       | Location ID  | TP-34-2021                  | TP-51-2022                  | TP-52-2022              | TP-52-2022                |
|-------------------|------------|---|-------|--|-----------------------------|-----------------------------|-------------------------|---------------------------|
|                   |            |   |       | Field Sample ID  | TP-34-2021-6.0-6.5-06232021 | TP-51-2022-5.5-6.5-11022022 | TP-52-2022-3-4-11022022 | TP-52-2022-3-4-11022022FD |
|                   |            |   |       | Start Depth (ft)   | 6                           | 5.5                         | 3                       | 3                         |
|                   |            |   |       | End Depth (ft)   | 6.5                         | 6.5                         | 4                       | 4                         |
|                   |            |   |       | Sampled  | 6/23/2021                   | 11/2/2022                   | 11/2/2022               | 11/2/2022                 |
|                   |            |   |       | SDG  | R2106353                    | R2210631                    | R2210631                | R2210631                  |
|                   |            |   |       | Lab Sample ID  | R2106353-001                | R2210631-001                | R2210631-002            | R2210631-003              |
|                   |            |   |       | Sample Type  | REG                         | REG                         | REG                     | FD                        |
|                   |            |   |       | Matrix   | SOIL                        | SOIL                        | SOIL                    | SOIL                      |
| Analytical Method | CAS_RN     | Chemical Name   | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |                             |                             |                         |                           |
| E160.3            | SOLID      | Solids  | %     |  |                             |                             |                         |                           |
| E160.3            | SOLIDS     | Total Solids  | %     |  | 92                          | 78                          | 75                      | 77.1                      |
|                   |            | PFAS  |       |  |                             |                             |                         |                           |
| E537M             | 2991-50-6  | n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA) | mg/kg |  |                             |                             |                         |                           |
| E537M             | 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | mg/kg |  |                             |                             |                         |                           |
| E537M             | 335-76-2   | Perfluorodecanoic acid (PFDA)                             | mg/kg |  |                             |                             |                         |                           |
| E537M             | 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | mg/kg |  |                             |                             |                         |                           |
| E537M             | 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | mg/kg |  |                             |                             |                         |                           |
| E537M             | 375-95-1   | Perfluorononanoic Acid (PFNA)                             | mg/kg |  |                             |                             |                         |                           |
| E537M             | 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | mg/kg | 0.440 <sup>(2)</sup>   |                             |                             |                         |                           |
| E537M             | 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | mg/kg | 0.500 <sup>(2)</sup>   |                             |                             |                         |                           |
| E537M             | 376-06-7   | Perfluorotetradecanoic Acid (PFTeDA)                      | mg/kg |  |                             |                             |                         |                           |
| E537M             | 2058-94-8  | Perfluoroundecanoic Acid (PFunda)                         | mg/kg |  |                             |                             |                         |                           |
|                   |            | Metals and Cyanide  |       |  |                             |                             |                         |                           |
| SW6010            | 7429-90-5  | Aluminum  | mg/kg |  | 1040                        | 23400 J                     | 1080                    | 1130                      |
| SW6010            | 7440-36-0  | Antimony  | mg/kg |  | 6.4 U                       | 7.5 UJ                      | 2.8 J                   | 10.9 J                    |
| SW6010            | 7440-38-2  | Arsenic   | mg/kg | 16   | 13.5                        | 4.1 J                       | 14.6                    | 12.9                      |
| SW6010            | 7440-39-3  | Barium  | mg/kg | 400  | 10.9                        | 254 J                       | 202                     | 180                       |
| SW6010            | 7440-41-7  | Beryllium   | mg/kg | 590  | 0.117 J                     | 1.33                        | 0.14 J                  | 0.15 J                    |
| SW6010            | 7440-43-9  | Cadmium   | mg/kg | 9.3  | 3                           | 0.63 U                      | 0.21 J                  | 0.14 J                    |
| SW6010            | 7440-70-2  | Calcium   | mg/kg |  | 837                         | 2750 J                      | 27400                   | 25500                     |
| SW6010            | 7440-47-3  | Chromium <sup>(3)</sup>                                   | mg/kg | 400  | 3.6                         | 30.1 J                      | 20.1                    | 19.5                      |
| SW6010            | 7440-48-4  | Cobalt  | mg/kg |  | 0.948 J                     | 15.5                        | 1.9 J                   | 1.4 J                     |
| SW6010            | 7440-50-8  | Copper  | mg/kg | 270  | 8.5                         | 26.9                        | 76.7                    | 66.7                      |
| SW6010            | 7439-89-6  | Iron  | mg/kg |  | 5840                        | 37500                       | 10900                   | 8270                      |
| SW6010            | 7439-92-1  | Lead  | mg/kg | 1000   | 66.4                        | 11.5                        | 247                     | 230                       |
| SW6010            | 7439-95-4  | Magnesium   | mg/kg |  | 310                         | 7240 J                      | 120                     | 130                       |
| SW6010            | 7439-96-5  | Manganese   | mg/kg | 10000  | 25.6                        | 254 J                       | 29.5                    | 26.9                      |
| SW6010            | 7440-02-0  | Nickel  | mg/kg | 310  | 4 J                         | 41.9                        | 5.3                     | 4.8 J                     |
| SW6010            | 7440-09-7  | Potassium   | mg/kg |  | 93.7 J                      | 2370                        | 600                     | 690                       |
| SW6010            | 7782-49-2  | Selenium  | mg/kg | 1500   | 5.4                         | 1.3 U                       | 1.1 J                   | 1.2 J                     |
| SW6010            | 7440-22-4  | Silver  | mg/kg | 1500   | 1.1 U                       | 1.3 U                       | 0.8 J                   | 0.6 J                     |
| SW6010            | 7440-23-5  | Sodium  | mg/kg |  | 116                         | 140                         | 70 J                    | 70 J                      |
| SW6010            | 7440-28-0  | Thallium  | mg/kg |  | 5.8                         | 1.3 U                       | 9.4                     | 11.8                      |
| SW6010            | 7440-62-2  | Vanadium  | mg/kg |  | 1.6 J                       | 38.6                        | 19.9                    | 20.2                      |
| SW6010            | 7440-66-6  | Zinc  | mg/kg | 10000  | 90.5                        | 81                          | 51.3                    | 38.9                      |
| SW7471            | 7439-97-6  | Mercury   | mg/kg | 2.8  | 0.082                       | 0.032                       | 6.5 J                   | 3.85 J                    |
| SW9012            | 57-12-5    | Cyanide, Total  | mg/kg | 27   | 19.2                        | 3.2                         | 22.1                    | 19.1                      |
|                   |            | Pesticides  |       |  |                             |                             |                         |                           |
| SW8081            | 72-54-8    | 4,4'-DDD  | mg/kg | 92   | 0.19 U                      |                             |                         |                           |
| SW8081            | 50-29-3    | 4,4'-DDT  | mg/kg | 47   | 0.19 U                      |                             |                         |                           |
| SW8081            | 309-00-2   | Aldrin  | mg/kg | 0.68   | 0.19 U                      |                             |                         |                           |
| SW8081            | 319-84-6   | Alpha-BHC   | mg/kg | 3.4  | 0.19 U                      |                             |                         |                           |
| SW8081            | 319-85-7   | Beta-BHC  | mg/kg | 3  | 0.19 U                      |                             |                         |                           |
| SW8081            | 959-98-8   | Endosulfan (I <sup>(4)</sup> )                            | mg/kg | 200  | 0.19 U                      |                             |                         |                           |
| SW8081            | 1031-07-8  | Endosulfan Sulfate <sup>(4)</sup>                         | mg/kg | 200  | 0.19 U                      |                             |                         |                           |
| SW8081            | 72-20-8    | Endrin  | mg/kg | 89   | 0.19 U                      |                             |                         |                           |
| SW8081            | 7421-93-4  | Endrin Aldehyde   | mg/kg |  | 0.19 U                      |                             |                         |                           |
| SW8081            | 53494-70-5 | Endrin Ketone   | mg/kg |  | 0.19 U                      |                             |                         |                           |
| SW8081            | 5566-34-7  | Gamma-Chlordane   | mg/kg |  | 0.19 U                      |                             |                         |                           |
| SW8081            | 1024-57-3  | Heptachlor Epoxide  | mg/kg |  | 0.19 U                      |                             |                         |                           |
| SW8081            | 72-43-5    | Methoxychlor  | mg/kg |  | 0.19 U                      |                             |                         |                           |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |             |                             |       | Location ID  | TP-34-2021                  | TP-51-2022                  | TP-52-2022              | TP-52-2022                |
|-------------------|-------------|-----------------------------|-------|--|-----------------------------|-----------------------------|-------------------------|---------------------------|
|                   |             |                             |       | Field Sample ID  | TP-34-2021-6.0-6.5-06232021 | TP-51-2022-5.5-6.5-11022022 | TP-52-2022-3-4-11022022 | TP-52-2022-3-4-11022022FD |
|                   |             |                             |       | Start Depth (ft)   | 6                           | 5.5                         | 3                       | 3                         |
|                   |             |                             |       | End Depth (ft)   | 6.5                         | 6.5                         | 4                       | 4                         |
|                   |             |                             |       | Sampled  | 6/23/2021                   | 11/2/2022                   | 11/2/2022               | 11/2/2022                 |
|                   |             |                             |       | SDG  | R2106353                    | R2210631                    | R2210631                | R2210631                  |
|                   |             |                             |       | Lab Sample ID  | R2106353-001                | R2210631-001                | R2210631-002            | R2210631-003              |
|                   |             |                             |       | Sample Type  | REG                         | REG                         | REG                     | FD                        |
|                   |             |                             |       | Matrix   | SOIL                        | SOIL                        | SOIL                    | SOIL                      |
| Analytical Method | CAS_RN      | Chemical Name               | Unit  | Soil Cleanup Objective (SCO) for Commercial Use <sup>(1)</sup> |                             |                             |                         |                           |
|                   |             | PCBs                        |       |  |                             |                             |                         |                           |
| SW8082            | 12672-29-6  | Aroclor-1248                | mg/kg | 1  | 0.37 U                      |                             |                         |                           |
| SW8082            | 11097-69-1  | Aroclor-1254                | mg/kg | 1  | 0.37 U                      |                             |                         |                           |
| SW8082            | 11096-82-5  | Aroclor-1260                | mg/kg | 1  | 0.37 U                      |                             |                         |                           |
|                   |             | Total PCBs <sup>(B)</sup>   |       | 1  | 0.37 U                      |                             |                         |                           |
|                   |             | Volatiles                   |       |  |                             |                             |                         |                           |
| SW8260            | 71-55-6     | 1,1,1-Trichloroethane       | mg/kg | 500  | 13 U                        | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 75-34-3     | 1,1-Dichloroethane          | mg/kg | 240  | 13 U                        | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 78-93-3     | 2-Butanone                  | mg/kg | 500  | 13 U                        | 0.0064 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 67-64-1     | Acetone                     | mg/kg | 500  | 64 U                        | 0.068 U                     | 0.04 U                  | 0.047 U                   |
| SW8260            | 71-43-2     | Benzene                     | mg/kg | 44   | 270                         | 0.0051 U                    | 0.00072 J               | 0.0012 J                  |
| SW8260            | 74-83-9     | Bromomethane                | mg/kg |  | 13 U                        | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 75-15-0     | Carbon Disulfide            | mg/kg |  | 13 U                        | 0.0051 U                    | 0.0079 U                | 0.00067 J                 |
| SW8260            | 67-66-3     | Chloroform                  | mg/kg | 350  | 13 U                        | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 74-87-3     | Chloromethane               | mg/kg |  | 13 U                        | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 156-59-2    | cis-1,2-Dichloroethene      | mg/kg | 500  | 13 U                        | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 110-82-7    | Cyclohexane                 | mg/kg |  | 13 U                        | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 100-41-4    | Ethylbenzene                | mg/kg | 390  | 19                          | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 98-82-8     | Isopropylbenzene            | mg/kg |  | 1.1 J                       | 0.00026 J                   | 0.0079 U                | 0.0094 U                  |
| SW8260            | XYLENES1314 | m&p-Xylenes                 | mg/kg | 500  | 330                         | 0.01 U                      | 0.016 U                 | 0.019 U                   |
| SW8260            | 79-20-9     | Methyl Acetate              | mg/kg |  | 13 U                        | 0.00091 J                   | 0.0079 U                | 0.0094 U                  |
| SW8260            | 1634-04-4   | Methyl Tert-Butyl Ether     | mg/kg | 500  | 13 U                        | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 108-87-2    | Methylcyclohexane           | mg/kg |  | 13 U                        | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 75-09-2     | Methylene Chloride          | mg/kg | 500  | 13 U                        | 0.0051 U                    | 0.0079 U                | 0.0095 U                  |
| SW8260            | 95-47-6     | o-Xylene                    | mg/kg | 500  | 91                          | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 100-42-5    | Styrene                     | mg/kg |  | 140                         | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 108-88-3    | Toluene                     | mg/kg | 500  | 290                         | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 1330-20-7   | Total Xylenes               | mg/kg | 500  | 421                         | 0.01 U                      | 0.016 U                 | 0.019 U                   |
| SW8260            | 156-60-5    | trans-1,2-Dichloroethene    | mg/kg | 500  | 13 U                        | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
| SW8260            | 79-01-6     | Trichloroethene             | mg/kg | 200  | 13 U                        | 0.0051 U                    | 0.0079 U                | 0.0094 U                  |
|                   |             | Semivolatiles               |       |  |                             |                             |                         |                           |
| SW8270            | 92-52-4     | 1,1'-Biphenyl               | mg/kg |  | 1200 J                      | 0.57 U                      | 4.5 U                   | 4.4 U                     |
| SW8270            | 105-67-9    | 2,4-Dimethylphenol          | mg/kg |  | 1300 J                      | 0.57 U                      | 4.5 U                   | 4.4 U                     |
| SW8270            | 91-57-6     | 2-Methylnaphthalene         | mg/kg |  | 5900                        | 0.57 U                      | 3.4 J                   | 3.1 J                     |
| SW8270            | 95-48-7     | 2-Methylphenol              | mg/kg | 500  | 1100 J                      | 0.57 U                      | 4.5 U                   | 4.4 U                     |
| SW8270            | 34METPH     | 3&4-Methylphenol            | mg/kg | 500  | 2700 J                      | 0.57 U                      | 4.5 U                   | 4.4 U                     |
| SW8270            | 100-01-6    | 4-Nitroaniline              | mg/kg |  | 18000 U                     | 2.9 U                       | 23 U                    | 22 U                      |
| SW8270            | 98-86-2     | Acetophenone                | mg/kg |  | 3400 U                      | 0.57 U                      | 4.5 U                   | 4.4 U                     |
| SW8270            | 100-52-7    | Benzaldehyde                | mg/kg |  | 18000 U                     | 2.9 U                       | 23 U                    | 22 U                      |
| SW8270            | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | mg/kg |  | 5200 U                      | 0.87 U                      | 6.8 U                   | 6.6 U                     |
| SW8270            | 86-74-8     | Carbazole                   | mg/kg |  | 3600                        | 0.57 U                      | 1.9 J                   | 3.6 J                     |
| SW8270            | 84-66-2     | Diethyl Phthalate           | mg/kg |  | 30000                       | 0.57 U                      | 4.5 U                   | 4.4 U                     |
| SW8270            | 131-11-3    | Dimethyl Phthalate          | mg/kg |  | 7700                        | 0.57 U                      | 4.5 U                   | 4.4 U                     |
| SW8270            | 84-74-2     | Di-n-Butyl Phthalate        | mg/kg |  | 610 J                       | 0.57 U                      | 4.5 U                   | 4.4 U                     |
| SW8270            | 86-30-6     | n-Nitrosodiphenylamine      | mg/kg |  | 3400 U                      | 0.57 U                      | 4.5 U                   | 4.4 U                     |
| SW8270            | 108-95-2    | Phenol                      | mg/kg | 500  | 1600 J                      | 0.57 U                      | 4.5 U                   | 4.4 U                     |

TABLE 7 - FOCUSED RI SITE 110 SOIL ANALYTICAL SUMMARY

|                   |          |                           |       | Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>SDG<br>Lab Sample ID<br>Sample Type<br>Matrix | TP-34-2021<br>TP-34-2021-6.0-6.5-06232021<br>6<br>6.5<br>6/23/2021<br>R2106353<br>R2106353-001<br>REG<br>SOIL | TP-51-2022<br>TP-51-2022-5.5-6.5-11022022<br>5.5<br>6.5<br>11/2/2022<br>R2210631<br>R2210631-001<br>REG<br>SOIL | TP-52-2022<br>TP-52-2022-3-4-11022022<br>3<br>4<br>11/2/2022<br>R2210631<br>R2210631-002<br>REG<br>SOIL | TP-52-2022<br>TP-52-2022-3-4-11022022FD<br>3<br>4<br>11/2/2022<br>R2210631<br>R2210631-003<br>FD<br>SOIL |
|-------------------|----------|---------------------------|-------|--|---|---|---|--|
| Analytical Method | CAS_RN   | Chemical Name             | Unit  | Soil Cleanup<br>Objective (SCO) for<br>Commercial Use <sup>(1)</sup>   |   |   |   |  |
|                   |          | PAHs                      |       |  |   |   |   |  |
| SW8270            | 83-32-9  | Acenaphthene              | mg/kg | 500  | 750 J   | 0.57 U  | 4.5 U   | 4.4 U  |
| SW8270            | 208-96-8 | Acenaphthylene            | mg/kg | 500  | 6400  | 0.57 U  | 4.4 J   | 4.5  |
| SW8270            | 120-12-7 | Anthracene                | mg/kg | 500  | 5500  | 0.57 U  | 7.1   | 6.6  |
| SW8270            | 56-55-3  | Benzo(A)Anthracene        | mg/kg | 5.6  | 4700  | 0.57 U  | 21  | 26   |
| SW8270            | 50-32-8  | Benzo(A)Pyrene            | mg/kg | 1  | 4400  | 0.57 U  | 20  | 25   |
| SW8270            | 205-99-2 | Benzo(B)Fluoranthene      | mg/kg | 5.6  | 4400  | 0.57 U  | 29  | 35   |
| SW8270            | 191-24-2 | Benzo(G,H,I)perylene      | mg/kg | 500  | 1900 J  | 0.57 U  | 12  | 15   |
| SW8270            | 207-08-9 | Benzo(K)Fluoranthene      | mg/kg | 56   | 1900 J  | 0.57 U  | 10  | 13   |
| SW8270            | 218-01-9 | Chrysene                  | mg/kg | 56   | 4300  | 0.57 U  | 21  | 25   |
| SW8270            | 53-70-3  | Dibenzo(a,h)Anthracene    | mg/kg | 0.56   | 3400 U  | 0.57 U  | 4 J   | 4.8  |
| SW8270            | 132-64-9 | Dibenzofuran              | mg/kg | 350  | 4500  | 0.57 U  | 3.3 J   | 3.3 J  |
| SW8270            | 206-44-0 | Fluoranthene              | mg/kg | 500  | 13000   | 0.57 U  | 33  | 41   |
| SW8270            | 86-73-7  | Fluorene                  | mg/kg | 500  | 7300  | 0.57 U  | 2.4 J   | 2.7 J  |
| SW8270            | 193-39-5 | Indeno(1,2,3-Cd)Pyrene    | mg/kg | 5.6  | 2200 J  | 0.57 U  | 15  | 18   |
| SW8270            | 91-20-3  | Naphthalene               | mg/kg | 500  | 25000 J   | 0.57 U  | 26  | 26   |
| SW8270            | 85-01-8  | Phenanthrene              | mg/kg | 500  | 19000   | 0.57 U  | 18  | 23   |
| SW8270            | 129-00-0 | Pyrene                    | mg/kg | 500  | 8300  | 0.57 U  | 25  | 31   |
|                   |          | Total PAHs <sup>(5)</sup> | mg/kg | 500  | 110000  | 0.57 U  | 250   | 300  |

Notes:

(1) Unless otherwise noted, soil cleanup objectives from Table 375-6.8(b) in NYSDEC's "6 NYCRR PART 375 Environmental Remediation Programs," December 14, 2006.

(2) PFAS criteria are guidance levels from the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs," November 2022.

(3) Hexavalent chromium standard is presented. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

(4) This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

(5) Value from NYSDEC "CP-51/Soil Cleanup Guidance", October 21, 2010.

Only detected compounds are presented

Shaded: Value exceeds Commercial SCOs

TABLE 8 FOCUSED RI SITE 110 GROUNDWATER ANALYTICAL SUMMARY DECEMBER 2020

|                   |             |                                     |      | Location Description<br>Location ID<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code | MW-04-2020<br>MW-04-2020<br>MW-04-2020-12292020<br>GW<br>R2012312-003<br>12/29/2020<br>REG | MW-05-2020<br>MW-05-2020<br>MW-05-2020-12292020<br>GW<br>R2012312-002<br>12/29/2020<br>REG | MW-06-2020<br>MW-06-2020<br>MW-06-2020-12292020<br>GW<br>R2012312-001<br>12/29/2020<br>REG | MW-07-2020<br>MW-07-2020<br>MW-07-2020-12302020<br>GW<br>R2012369-001<br>12/30/2020<br>REG |
|-------------------|-------------|-------------------------------------|------|--|--|--|--|--|
| Analytical Method | CAS_RN      | Chemical Name                       | Unit | Class GA<br>Groundwater<br>Quality Standard<br>or Guidance<br>Value <sup>(1)</sup>                             |  |  |  |  |
|                   |             | PFAS                                |      |  |  |  |  |  |
| E537M             | 375-73-5    | Perfluorobutanesulfonic Acid (PFBS) | ug/l | NS   | 0.0046 U   |  |  | 0.00059 J  |
| E537M             | 375-22-4    | Perfluorobutanoic Acid (PFBA)       | ug/l | NS   | 0.011  |  |  | 0.011  |
| E537M             | 375-85-9    | Perfluoroheptanoic Acid (PFHpA)     | ug/l | NS   | 0.0046 U   |  |  | 0.0024 J   |
| E537M             | 1763-23-1   | Perfluorooctanesulfonic Acid (PFOS) | ug/l | 0.0027 <sup>(2)</sup>  | 0.00087 J  |  |  | 0.00064 J  |
| E537M             | 335-67-1    | Perfluorooctanoic Acid (PFOA)       | ug/l | 0.0067 <sup>(2)</sup>  | 0.0035   |  |  | 0.0044   |
| E537M             | 2706-90-3   | Perfluoropentanoic Acid (PFPeA)     | ug/l | NS   | 0.0027 J   |  |  | 0.0048   |
|                   |             | Metals                              |      |  |  |  |  |  |
| SW6010            | 7429-90-5   | Aluminum                            | ug/l | NS   | 526  | 100 U  | 34.6 J   | 13500  |
| SW6010            | 7440-39-3   | Barium                              | ug/l | 1000   | 165  | 18.4 J   | 141  | 172  |
| SW6010            | 7440-41-7   | Beryllium                           | ug/l | 3  | 3 U  | 3 U  | 3 U  | 0.7 J  |
| SW6010            | 7440-70-2   | Calcium                             | ug/l | NS   | 239000   | 394000   | 143000   | 120000   |
| SW6010            | 7440-47-3   | Chromium                            | ug/l | 50   | 10 U   | 10 U   | 10 U   | 15.8   |
| SW6010            | 7440-48-4   | Cobalt                              | ug/l | NS   | 2.2 J  | 8.1 J  | 50 U   | 4.9 J  |
| SW6010            | 7440-50-8   | Copper                              | ug/l | 200  | 20 U   | 20 U   | 20 U   | 18.1 J   |
| SW6010            | 7439-89-6   | Iron                                | ug/l | 300  | 17300  | 15900  | 10800  | 16700  |
| SW6010            | 7439-92-1   | Lead                                | ug/l | 25   | 50 U   | 50 U   | 50 U   | 20.8 J   |
| SW6010            | 7439-95-4   | Magnesium                           | ug/l | 35000 <sup>(2)</sup>   | 46000  | 53200  | 25300  | 26800  |
| SW6010            | 7439-96-5   | Manganese                           | ug/l | 300  | 2970   | 3240   | 1230   | 1400   |
| SW6010            | 7440-02-0   | Nickel                              | ug/l | 100  | 40 U   | 9.8 J  | 40 U   | 40 U   |
| SW6010            | 7440-09-7   | Potassium                           | ug/l | NS   | 5740   | 5760   | 4140   | 6340   |
| SW6010            | 7440-23-5   | Sodium                              | ug/l | 20000  | 19800  | 151000   | 73600  | 27700  |
| SW6010            | 7440-62-2   | Vanadium                            | ug/l | NS   | 1.1 J  | 1.1 J  | 50 U   | 21.4 J   |
| SW6010            | 7440-66-6   | Zinc                                | ug/l | 2000   | 10.7 J   | 34   | 20 U   | 66   |
| SW7470            | 7439-97-6   | Mercury                             | ug/l | 0.7  | 0.2 U  | 0.2 U  | 0.2 U  | 0.246  |
|                   |             | PESTICIDES                          |      |  |  |  |  |  |
| SW8081            | 319-84-6    | Alpha-BHC                           | ug/l | 0.01   | 0.045 U  | 0.05 U   | 0.26 J   | 0.045 U  |
| SW8081            | 5103-71-9   | cis-Chlordane                       | ug/l | NS   | 0.045 U  | 0.05 U   | 0.03 J   | 0.045 U  |
|                   |             | PCBS                                |      |  |  |  |  |  |
|                   |             | Volatiles                           |      |  |  |  |  |  |
| SW8260            | 71-43-2     | Benzene                             | ug/l | 1  | 1 U  | 1 U  | 370  | 1 U  |
| SW8260            | 67-66-3     | Chloroform                          | ug/l | 7  | 1 U  | 1 U  | 6 J  | 1 U  |
| SW8260            | 100-41-4    | Ethylbenzene                        | ug/l | 5  | 1 U  | 1 U  | 1700   | 1 U  |
| SW8260            | 98-82-8     | Isopropylbenzene                    | ug/l | 5  | 1 U  | 1 U  | 44   | 1 U  |
| SW8260            | XYLENES1314 | m&p-Xylenes                         | ug/l | 5 <sup>(3)</sup>   | 2 U  | 2 U  | 3000   | 2 U  |
| SW8260            | 95-47-6     | o-Xylene                            | ug/l | 5  | 1 U  | 1 U  | 1100   | 1 U  |
| SW8260            | 100-42-5    | Styrene                             | ug/l | 5  | 1 U  | 1 U  | 260  | 1 U  |
| SW8260            | 108-88-3    | Toluene                             | ug/l | 5  | 1 U  | 1 U  | 1700   | 1 U  |
|                   |             | Semivolatiles                       |      |  |  |  |  |  |
| SW8270            | 92-52-4     | 1,1'-Biphenyl                       | ug/l | 5  | 0.98 U   | 0.99 U   | 47   | 1 U  |
| SW8270            | 105-67-9    | 2,4-Dimethylphenol                  | ug/l | 50 <sup>(2)</sup>  | 0.98 U   | 0.99 U   | 17   | 1 U  |
| SW8270            | 91-57-6     | 2-Methylnaphthalene                 | ug/l | NS   | 0.26   | 0.063 J  | 710  | 0.2 U  |
| SW8270            | 95-48-7     | 2-Methylphenol                      | ug/l | 1 <sup>(4)</sup>   | 0.98 U   | 0.99 U   | 5.4  | 1 U  |

TABLE 8 FOCUSED RI SITE 110 GROUNDWATER ANALYTICAL SUMMARY DECEMBER 2020

| Location Description   |          |                        |      | MW-04-2020<br>MW-04-2020<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code | MW-04-2020<br>MW-04-2020<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code | MW-05-2020<br>MW-05-2020<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code | MW-06-2020<br>MW-06-2020<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code | MW-07-2020<br>MW-07-2020<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code |
|--|----------|------------------------|------|---|---|---|---|---|
| Class GA<br>Groundwater<br>Quality Standard<br>or Guidance<br>Value <sup>(1)</sup> |          |                        |      | REG   | REG   | REG   | REG   | REG   |
| Analytical Method  | CAS_RN   | Chemical Name          | Unit |   |   |   |   |   |
| SW8270   | 34METPH  | 3&4-Methylphenol       | ug/l | 1 <sup>(4)</sup>  | 0.98 U  | 0.99 U  | 4.7 J   | 1 U   |
| SW8270   | 83-32-9  | Acenaphthene           | ug/l | 20 <sup>(2)</sup>   | 0.22  | 0.2 J   | 110   | 0.2 U   |
| SW8270   | 208-96-8 | Acenaphthylene         | ug/l | NS  | 1   | 0.11 J  | 310   | 0.2 U   |
| SW8270   | 98-86-2  | Acetophenone           | ug/l | NS  | 0.98 U  | 0.99 U  | 4.7 J   | 1 U   |
| SW8270   | 120-12-7 | Anthracene             | ug/l | 50 <sup>(2)</sup>   | 0.36  | 0.077 J   | 7.2   | 0.2 U   |
| SW8270   | 56-55-3  | Benzo(A)Anthracene     | ug/l | 0.002 <sup>(2)</sup>  | 0.36  | 0.2 U   | 0.98 U  | 0.17 J  |
| SW8270   | 50-32-8  | Benzo(A)Pyrene         | ug/l | ND  | 0.39  | 0.2 U   | 0.98 U  | 0.14 J  |
| SW8270   | 205-99-2 | Benzo(B)Fluoranthene   | ug/l | 0.002 <sup>(2)</sup>  | 0.38  | 0.2 U   | 0.98 U  | 0.15 J  |
| SW8270   | 191-24-2 | Benzo(G,H,I)perylene   | ug/l | NS  | 0.25  | 0.2 U   | 0.98 U  | 0.2 U   |
| SW8270   | 207-08-9 | Benzo(K)Fluoranthene   | ug/l | 0.002 <sup>(2)</sup>  | 0.14 J  | 0.2 U   | 0.98 U  | 0.2 U   |
| SW8270   | 86-74-8  | Carbazole              | ug/l | NS  | 1.1   | 0.99 U  | 170   | 1 U   |
| SW8270   | 218-01-9 | Chrysene               | ug/l | 0.002 <sup>(2)</sup>  | 0.34  | 0.2 U   | 0.98 U  | 0.13 J  |
| SW8270   | 132-64-9 | Dibenzofuran           | ug/l | NS  | 0.29  | 0.083 J   | 83  | 0.2 U   |
| SW8270   | 84-66-2  | Diethyl Phthalate      | ug/l | 50 <sup>(2)</sup>   | 4.9 U   | 5 U   | 25 U  | 0.35 J  |
| SW8270   | 206-44-0 | Fluoranthene           | ug/l | 50 <sup>(2)</sup>   | 0.88  | 0.2 U   | 3.9   | 0.24  |
| SW8270   | 86-73-7  | Fluorene               | ug/l | 50 <sup>(2)</sup>   | 0.66  | 0.14 J  | 73  | 0.2 U   |
| SW8270   | 193-39-5 | Indeno(1,2,3-Cd)Pyrene | ug/l | 0.002 <sup>(2)</sup>  | 0.25 J  | 0.2 UJ  | 0.98 UJ   | 0.2 U   |
| SW8270   | 91-20-3  | Naphthalene            | ug/l | 10 <sup>(2)</sup>   | 6.9   | 1.1 U   | 12000 J   | 0.69  |
| SW8270   | 85-01-8  | Phenanthrene           | ug/l | 50  | 1.5   | 0.2 U   | 35  | 0.2 J   |
| SW8270   | 108-95-2 | Phenol                 | ug/l | 1   | 0.98 U  | 0.15 J  | 4.9 U   | 1 U   |
| SW8270   | 129-00-0 | Pyrene                 | ug/l | 50 <sup>(2)</sup>   | 0.69  | 0.2 U   | 2.3   | 0.2 J   |
| SW8270-SIM   | 123-91-1 | 1,4-Dioxane            | ug/l | 0.35 <sup>(2)</sup>   | 0.29  |   |   | 0.032 J   |
|  |          | Cyanide                |      |   |   |   |   |   |
| SW9012   | 57-12-5  | Cyanide, Total         | ug/l | 200   | 473   | 5710  | 179   | 247   |

Notes:

(1) Unless otherwise noted, groundwater criteria obtained from the NYSDEC document titled, "Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations," June 1998; Errata Sheet for June 1998 Edition. Criteria listed are standards unless otherwise noted.

(2) Guidance value (from TOGS 1.1.1)

(3) Applies to the individual isomer.

(4) Applies to the sum of these substances.

Only detected compounds are presented

Shaded: Value exceeds standard or guidance value

U: Compound not detected at provided detection limit

J: Estimated at given value

NS: No standard established

TABLE 9 FOCUSED RI SITE 110 GROUNDWATER ANALYTICAL SUMMARY SEPTEMBER 2021

| Location Description<br>Location ID<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code |            |                           |          |      |   | MW-04-2020<br>MW-04-2020<br>MW-04-2020-09222021<br>GW<br>R2109811-004/R2109811-005<br>9/22/2021<br>REG | MW-05-2020<br>MW-05-2020<br>MW-05-2020-09232021<br>GW<br>R2110043-005/R2110043-006<br>9/23/2021<br>REG | MW-06-2020<br>MW-06-2020<br>MW-06-2020-09222021<br>GW<br>R2109811-007/R2109811-008<br>9/22/2021<br>REG | MW-06-2020<br>MW-06-2020<br>MW-06-2020-09232021<br>GW<br>R2110043-009<br>9/23/2021<br>REG |
|--|------------|---------------------------|----------|------|---|--|--|--|---|
| Analytical Method  | CAS_RN     | Chemical Name             | FRACTION | Unit | Class GA<br>Groundwater<br>Quality<br>Standard or<br>Guidance<br>Value <sup>(1)</sup> |  |  |  |   |
|  |            | MNA Parameters            |          |      |   |  |  |  |   |
| Calculated   | 7727-37-9  | Nitrogen                  | T        | ug/l | NS  | 3960   | 10700  | 3760   |   |
| E351.2   | KN         | Total Kjeldahl Nitrogen   | T        | ug/l | NS  | 3930 J   | 10700  | 3740   |   |
| E353.2   | NO3NO2N    | Nitrogen, Nitrate-Nitrite | T        | ug/l | 10000 <sup>(2)</sup>  | 30 J   | 52   | 50 U   |   |
| E353.2   | NO2N       | Nitrogen, Nitrite         | T        | ug/l | 1000  | 10 U   | 441  | 10 U   |   |
| RSK175   | 74-82-8    | Methane                   | T        | ug/l | NS  | 760  | 5  | 5600   |   |
| SM2320B  | ALK        | Alkalinity                | T        | ug/l | NS  | 814000   | 117000   | 561000   |   |
| SW9056   | 16887-00-6 | Chloride                  | T        | ug/l | 250000  | 18800  | 31600  | 25800  |   |
| SW9056   | 14808-79-8 | Sulfate                   | T        | ug/l | 250000  | 108000   | 2650000  | 61600  |   |
|  |            | Metals - Totals           |          |      |   |  |  |  |   |
| SW6010   | 7429-90-5  | Aluminum                  | T        | ug/l | NS  | 742  | 177  | 26.1 J   |   |
| SW6010   | 7440-38-2  | Arsenic                   | T        | ug/l | 25  | 10 U   | 10 U   | 7.5 J  |   |
| SW6010   | 7440-39-3  | Barium                    | T        | ug/l | 1000  | 199  | 38.2   | 138  |   |
| SW6010   | 7440-41-7  | Beryllium                 | T        | ug/l | 3 <sup>(3)</sup>  | 3 U  | 3 U  | 3 U  |   |
| SW6010   | 7440-43-9  | Cadmium                   | T        | ug/l | 5   | 5 U  | 1.9 J  | 5 U  |   |
| SW6010   | 7440-70-2  | Calcium                   | T        | ug/l | NS  | 267000   | 575000   | 163000   |   |
| SW6010   | 7440-48-4  | Cobalt                    | T        | ug/l | NS  | 2.7 J  | 6.2 J  | 2.9 J  |   |
| SW6010   | 7439-89-6  | Iron                      | T        | ug/l | 300   | 19300  | 277000   | 11600  |   |
| SW6010   | 7439-92-1  | Lead                      | T        | ug/l | 25  | 50 U   | 4.1 J  | 50 U   |   |
| SW6010   | 7439-95-4  | Magnesium                 | T        | ug/l | 35000 <sup>(3)</sup>  | 49400  | 185000   | 27900  |   |
| SW6010   | 7439-96-5  | Manganese                 | T        | ug/l | 300   | 3120   | 18400  | 1630   |   |
| SW6010   | 7440-02-0  | Nickel                    | T        | ug/l | 100   | 40 U   | 21.6 J   | 40 U   |   |
| SW6010   | 7440-09-7  | Potassium                 | T        | ug/l | NS  | 7020   | 16700  | 5170   |   |
| SW6010   | 7440-23-5  | Sodium                    | T        | ug/l | 20000   | 22800  | 111000   | 54200  |   |
| SW6010   | 7440-28-0  | Thallium                  | T        | ug/l | 0.5 <sup>(3)</sup>  | 10 U   | 10 U   | 10 U   |   |
| SW6010   | 7440-62-2  | Vanadium                  | T        | ug/l | NS  | 1.4 J  | 7.7 J  | 2.7 J  |   |
| SW6010   | 7440-66-6  | Zinc                      | T        | ug/l | 2000 <sup>(3)</sup>   | 12.9 J   | 140  | 4.7 J  |   |
| SW7470   | 7439-97-6  | Mercury                   | T        | ug/l | 0.7   | 0.2 U  | 0.2 U  | 0.2 U  |   |
|  |            | Metals - Dissolved        |          |      |   |  |  |  |   |
| SW6010   | 7429-90-5  | Aluminum                  | D        | ug/l | NS  | 35.1 J   | 151  | 100 U  |   |
| SW6010   | 7440-38-2  | Arsenic                   | D        | ug/l | 25  | 6.4 J  | 10 U   | 6 J  |   |
| SW6010   | 7440-39-3  | Barium                    | D        | ug/l | 1000  | 188  | 34.2   | 146  |   |
| SW6010   | 7440-41-7  | Beryllium                 | D        | ug/l | 3 <sup>(3)</sup>  | 3 U  | 0.2 J  | 3 U  |   |
| SW6010   | 7440-43-9  | Cadmium                   | D        | ug/l | 5   | 5 U  | 1.8 J  | 5 U  |   |
| SW6010   | 7440-70-2  | Calcium                   | D        | ug/l | NS  | 258000   | 577000   | 159000   |   |
| SW6010   | 7440-48-4  | Cobalt                    | D        | ug/l | NS  | 1.9 J  | 14.9 J   | 2.4 J  |   |
| SW6010   | 7439-89-6  | Iron                      | D        | ug/l | 300   | 18600  | 240000   | 10200  |   |
| SW6010   | 7439-92-1  | Lead                      | D        | ug/l | 25  | 50 U   | 50 U   | 50 U   |   |
| SW6010   | 7439-95-4  | Magnesium                 | D        | ug/l | 35000 <sup>(3)</sup>  | 57300  | 172000   | 26600  |   |
| SW6010   | 7439-96-5  | Manganese                 | D        | ug/l | 300   | 3180   | 18700  | 1570   |   |
| SW6010   | 7440-02-0  | Nickel                    | D        | ug/l | 100   | 40 U   | 47.8   | 40 U   |   |
| SW6010   | 7440-09-7  | Potassium                 | D        | ug/l | NS  | 5970   | 16000  | 5180   |   |
| SW6010   | 7440-23-5  | Sodium                    | D        | ug/l | 20000   | 25300  | 121000   | 59700  |   |

TABLE 9 FOCUSED RI SITE 110 GROUNDWATER ANALYTICAL SUMMARY SEPTEMBER 2021

| Location Description<br>Location ID<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code |             |                             |          |      |   | MW-04-2020<br>MW-04-2020<br>MW-04-2020-09222021<br>GW<br>R2109811-004/R2109811-005<br>9/22/2021<br>REG |    | MW-05-2020<br>MW-05-2020<br>MW-05-2020-09232021<br>GW<br>R2110043-005/R2110043-006<br>9/23/2021<br>REG |   | MW-06-2020<br>MW-06-2020<br>MW-06-2020-09222021<br>GW<br>R2109811-007/R2109811-008<br>9/22/2021<br>REG |    | MW-06-2020<br>MW-06-2020<br>MW-06-2020-09232021<br>GW<br>R2110043-009<br>9/23/2021<br>REG |  |
|--|-------------|-----------------------------|----------|------|---|--|----|--|---|--|----|---|--|
| Analytical Method  | CAS_RN      | Chemical Name               | FRACTION | Unit | Class GA<br>Groundwater<br>Quality<br>Standard or<br>Guidance<br>Value <sup>(1)</sup> |  |    |  |   |  |    |   |  |
| SW6010   | 7440-28-0   | Thallium                    | D        | ug/l | 0.5 <sup>(3)</sup>  | 10   | U  | 10   | U | 10   | U  |   |  |
| SW6010   | 7440-62-2   | Vanadium                    | D        | ug/l | NS  | 0.8  | J  | 6.2  | J | 2.5  | J  |   |  |
| SW6010   | 7440-66-6   | Zinc                        | D        | ug/l | 2000 <sup>(3)</sup>   | 5.3  | J  | 195  |   | 5.1  | J  |   |  |
| SW7470   | 7439-97-6   | Mercury                     | D        | ug/l | 0.7   | 0.2  | U  | 0.2  | U | 0.2  | U  |   |  |
|  |             | PCBS - Total                |          |      |   |  |    |  |   |  |    |   |  |
|  |             | PCBS - Dissolved            |          |      |   |  |    |  |   |  |    |   |  |
|  |             | Volatiles                   |          |      |   |  |    |  |   |  |    |   |  |
| SW8260   | 78-93-3     | 2-Butanone                  | T        | ug/l | 50  | 5  | U  | 2.3  | J | 500  | U  |   |  |
| SW8260   | 67-64-1     | Acetone                     | T        | ug/l | 50  | 5  | U  | 14   |   | 500  | U  |   |  |
| SW8260   | 71-43-2     | Benzene                     | T        | ug/l | 1   | 1  | U  | 0.5  | J | 430  |    |   |  |
| SW8260   | 75-27-4     | Bromodichloromethane        | T        | ug/l | 50 <sup>(3)</sup>   | 1  | U  | 1  | U | 31   | J  |   |  |
| SW8260   | 74-83-9     | Bromomethane                | T        | ug/l | 5   | 1  | UJ | 1.5  | J | 100  | UJ |   |  |
| SW8260   | 67-66-3     | Chloroform                  | T        | ug/l | 7   | 1  | U  | 1  | U | 70   | J  |   |  |
| SW8260   | 74-87-3     | Chloromethane               | T        | ug/l | 5   | 1  | J  | 1.4  | U | 250  | J  |   |  |
| SW8260   | 100-41-4    | Ethylbenzene                | T        | ug/l | 5   | 1  | U  | 1  | U | 1300   |    |   |  |
| SW8260   | 98-82-8     | Isopropylbenzene            | T        | ug/l | 5   | 1  | U  | 1  | U | 34   | J  |   |  |
| SW8260   | XYLENES1314 | m&p-Xylenes                 | T        | ug/l | 5 <sup>(4)</sup>  | 2  | U  | 2  | U | 2400   |    |   |  |
| SW8260   | 1634-04-4   | Methyl Tert-Butyl Ether     | T        | ug/l | 10  | 1  | U  | 1  | U | 100  | U  |   |  |
| SW8260   | 95-47-6     | o-Xylene                    | T        | ug/l | 5   | 1  | U  | 1  | U | 830  |    |   |  |
| SW8260   | 100-42-5    | Styrene                     | T        | ug/l | 5   | 1  | U  | 1  | U | 210  |    |   |  |
| SW8260   | 108-88-3    | Toluene                     | T        | ug/l | 5   | 1  | U  | 1  | U | 1600   |    |   |  |
|  |             | Semivolatiles - Total       |          |      |   |  |    |  |   |  |    |   |  |
| SW8270   | 92-52-4     | 1,1'-Biphenyl               | T        | ug/l | 5   | 0.93   | U  | 1  | U | 67   | J  |   |  |
| SW8270   | 91-57-6     | 2-Methylnaphthalene         | T        | ug/l | NS  | 0.24   |    | 0.093  | J | 690  |    |   |  |
| SW8270   | 83-32-9     | Acenaphthene                | T        | ug/l | 20 <sup>(3)</sup>   | 0.52   |    | 7.8  |   | 120  |    |   |  |
| SW8270   | 208-96-8    | Acenaphthylene              | T        | ug/l | NS  | 0.4  |    | 2.2  |   | 510  |    |   |  |
| SW8270   | 120-12-7    | Anthracene                  | T        | ug/l | 50 <sup>(3)</sup>   | 0.25   |    | 0.36   |   | 12   | J  |   |  |
| SW8270   | 56-55-3     | Benzo(A)Anthracene          | T        | ug/l | 0.002 <sup>(3)</sup>  | 0.26   |    | 0.2  | U | 19   | U  |   |  |
| SW8270   | 50-32-8     | Benzo(A)Pyrene              | T        | ug/l | ND  | 0.24   |    | 0.2  | U | 19   | U  |   |  |
| SW8270   | 205-99-2    | Benzo(B)Fluoranthene        | T        | ug/l | 0.002 <sup>(3)</sup>  | 0.26   |    | 0.2  | U | 19   | U  |   |  |
| SW8270   | 191-24-2    | Benzo(G,H,I)perylene        | T        | ug/l | NS  | 0.14   | J  | 0.2  | U | 19   | U  |   |  |
| SW8270   | 207-08-9    | Benzo(K)Fluoranthene        | T        | ug/l | 0.002 <sup>(3)</sup>  | 0.089  | J  | 0.2  | U | 19   | U  |   |  |
| SW8270   | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | T        | ug/l | 5   | 6.3  |    | 5  | U | 470  | U  |   |  |
| SW8270   | 86-74-8     | Carbazole                   | T        | ug/l | NS  | 0.79   | J  | 2.5  |   | 270  |    |   |  |
| SW8270   | 218-01-9    | Chrysene                    | T        | ug/l | 0.002 <sup>(3)</sup>  | 0.18   | J  | 0.2  | U | 19   | U  |   |  |
| SW8270   | 132-64-9    | Dibenzofuran                | T        | ug/l | NS  | 0.23   |    | 0.73   |   | 100  |    |   |  |
| SW8270   | 206-44-0    | Fluoranthene                | T        | ug/l | 50 <sup>(3)</sup>   | 0.85   |    | 0.24   |   | 19   | U  |   |  |
| SW8270   | 86-73-7     | Fluorene                    | T        | ug/l | 50 <sup>(3)</sup>   | 0.56   |    | 2.4  |   | 83   |    |   |  |
| SW8270   | 193-39-5    | Indeno(1,2,3-Cd)Pyrene      | T        | ug/l | 0.002 <sup>(3)</sup>  | 0.13   | J  | 0.2  | U | 19   | UJ |   |  |
| SW8270   | 91-20-3     | Naphthalene                 | T        | ug/l | 10 <sup>(3)</sup>   | 5.5  |    | 4.9  |   | 18000  |    |   |  |
| SW8270   | 85-01-8     | Phenanthrene                | T        | ug/l | 50  | 0.77   |    | 0.76   |   | 47   |    |   |  |



TABLE 9 FOCUSED RI SITE 110 GROUNDWATER ANALYTICAL SUMMARY SEPTEMBER 2021

| Location Description<br>Location ID<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code |          |                             |          |      |   | MW-04-2020<br>MW-04-2020<br>MW-04-2020-09222021<br>GW<br>R2109811-004/R2109811-005<br>9/22/2021<br>REG | MW-05-2020<br>MW-05-2020<br>MW-05-2020-09232021<br>GW<br>R2110043-005/R2110043-006<br>9/23/2021<br>REG | MW-06-2020<br>MW-06-2020<br>MW-06-2020-09222021<br>GW<br>R2109811-007/R2109811-008<br>9/22/2021<br>REG | MW-06-2020<br>MW-06-2020<br>MW-06-2020-09232021<br>GW<br>R2110043-009<br>9/23/2021<br>REG |
|--|----------|-----------------------------|----------|------|---|--|--|--|---|
| Analytical Method  | CAS_RN   | Chemical Name               | FRACTION | Unit | Class GA<br>Groundwater<br>Quality<br>Standard or<br>Guidance<br>Value <sup>(1)</sup> |  |  |  |   |
| SW8270   | 129-00-0 | Pyrene                      | T        | ug/l | 50 <sup>(3)</sup>   | 0.7  | 0.14 J   | 19 U   |   |
|  |          | Semivolatiles - Dissolved   |          |      |   |  |  |  |   |
| SW8270   | 92-52-4  | 1,1'-Biphenyl               | D        | ug/l | 5   | 0.95 U   | 1 U  | 58 J   |   |
| SW8270   | 91-57-6  | 2-Methylnaphthalene         | D        | ug/l | NS  | 0.22   | 0.2 U  | 670  |   |
| SW8270   | 83-32-9  | Acenaphthene                | D        | ug/l | 20 <sup>(3)</sup>   | 0.3  | 0.92   | 150  |   |
| SW8270   | 208-96-8 | Acenaphthylene              | D        | ug/l | NS  | 0.26   | 0.4  | 460  |   |
| SW8270   | 120-12-7 | Anthracene                  | D        | ug/l | 50 <sup>(3)</sup>   | 0.089 J  | 0.084 J  | 20 U   |   |
| SW8270   | 205-99-2 | Benzo(B)Fluoranthene        | D        | ug/l | 0.002 <sup>(3)</sup>  | 0.19 U   | 0.2 U  | 20 U   |   |
| SW8270   | 117-81-7 | bis-(2-Ethylhexyl)Phthalate | D        | ug/l | 5   | 4.8 U  | 5 U  | 490 U  |   |
| SW8270   | 86-74-8  | Carbazole                   | D        | ug/l | NS  | 0.95 U   | 1 U  | 240  |   |
| SW8270   | 132-64-9 | Dibenzofuran                | D        | ug/l | NS  | 0.19 U   | 0.2 U  | 82   |   |
| SW8270   | 84-74-2  | Di-n-Butyl Phthalate        | D        | ug/l | 50  | 4.8 U  | 0.5 J  | 490 U  |   |
| SW8270   | 86-73-7  | Fluorene                    | D        | ug/l | 50 <sup>(3)</sup>   | 0.19 U   | 0.07 J   | 67   |   |
| SW8270   | 91-20-3  | Naphthalene                 | D        | ug/l | 10 <sup>(3)</sup>   | 6.4  | 2.1  | 15000  |   |
| SW8270   | 85-01-8  | Phenanthrene                | D        | ug/l | 50  | 0.19 U   | 0.2 U  | 18 J   |   |
|  |          | Cyanide - Total             |          |      |   |  |  |  |   |
| SW9012   | 57-12-5  | Cyanide, Total              | T        | ug/l | 200   | 382  | 4530   | 182  |   |
|  |          | Cyanide - Dissolved         |          |      |   |  |  |  |   |
| SW9012   | 57-12-5  | Cyanide                     | D        | ug/l | 200   | 529  | 4310   | 181  |   |
|  |          | TOC                         |          |      |   |  |  |  |   |
| SW9060   | TOC      | Total Organic Carbon        | T        | ug/l | NS  | 17100  | 11100  |  | 20600   |

(1) Unless otherwise noted, groundwater criteria obtained from the NYSDEC document titled, "Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values

(2) Applies to the sum of these substances.

(3) Guidance value (from TOGS 1.1.1)

(4) Applies to the individual isomer.

Only detected compounds are presented

Shaded: Value exceeds standard or guidance value

U: Compound not detected at provided detection limit

J: Estimated at given value

NS: No standard established

TABLE 9 FOCUSED RI SITE 110 GROUNDWATER ANALYTICAL SUMMARY SEPTEMBER 2021

| Location Description<br>Location ID<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code |            |                           |          |      |   | MW-07-2020<br>MW-07-2020<br>MW-07-2020-09242021<br>GW<br>R2110043-012/R2110043-013<br>9/24/2021<br>REG | MW-08-2020<br>MW-08-2020<br>MW-08-2020-09232021<br>GW<br>R2110043-003/R2110043-004<br>9/23/2021<br>REG | MW-16-2020<br>MW-16-2020<br>MW-16-2020-09232021<br>GW<br>R2110043-001/R2110043-002<br>9/23/2021<br>REG | MW-16-2020<br>MW-16-2020<br>MW-16-2020-09232021FD<br>GW<br>R2110043-007/R2110043-008<br>9/23/2021<br>FD |
|--|------------|---------------------------|----------|------|---|--|--|--|---|
| Analytical Method  | CAS_RN     | Chemical Name             | FRACTION | Unit | Class GA<br>Groundwater<br>Quality<br>Standard or<br>Guidance<br>Value <sup>(1)</sup> |  |  |  |   |
|  |            | MNA Parameters            |          |      |   |  |  |  |   |
| Calculated   | 7727-37-9  | Nitrogen                  | T        | ug/l | NS  |  | 860  |  |   |
| E351.2   | KN         | Total Kjeldahl Nitrogen   | T        | ug/l | NS  |  | 850  |  |   |
| E353.2   | NO3NO2N    | Nitrogen, Nitrate-Nitrite | T        | ug/l | 10000 <sup>(2)</sup>  |  | 4 J  |  |   |
| E353.2   | NO2N       | Nitrogen, Nitrite         | T        | ug/l | 1000  |  | 10 U   |  |   |
| RSK175   | 74-82-8    | Methane                   | T        | ug/l | NS  |  | 46   |  |   |
| SM2320B  | ALK        | Alkalinity                | T        | ug/l | NS  |  | 387000   |  |   |
| SW9056   | 16887-00-6 | Chloride                  | T        | ug/l | 250000  |  | 22100  |  |   |
| SW9056   | 14808-79-8 | Sulfate                   | T        | ug/l | 250000  |  | 1260000  |  |   |
|  |            | Metals - Totals           |          |      |   |  |  |  |   |
| SW6010   | 7429-90-5  | Aluminum                  | T        | ug/l | NS  | 1580   | 24.8 J   | 407  | 262   |
| SW6010   | 7440-38-2  | Arsenic                   | T        | ug/l | 25  | 10 U   | 10 U   | 6 J  | 7 J   |
| SW6010   | 7440-39-3  | Barium                    | T        | ug/l | 1000  | 118  | 53.4   | 341  | 362   |
| SW6010   | 7440-41-7  | Beryllium                 | T        | ug/l | 3 <sup>(3)</sup>  | 3 U  | 3 U  | 3 U  | 3 U   |
| SW6010   | 7440-43-9  | Cadmium                   | T        | ug/l | 5   | 5 U  | 5 U  | 5 U  | 5 U   |
| SW6010   | 7440-70-2  | Calcium                   | T        | ug/l | NS  | 130000   | 521000   | 188000   | 190000  |
| SW6010   | 7440-48-4  | Cobalt                    | T        | ug/l | NS  | 1.3 J  | 11.7 J   | 2.8 J  | 2.8 J   |
| SW6010   | 7439-89-6  | Iron                      | T        | ug/l | 300   | 9700   | 1350   | 33000  | 36900   |
| SW6010   | 7439-92-1  | Lead                      | T        | ug/l | 25  | 3.9 J  | 50 U   | 9.9 J  | 5.8 J   |
| SW6010   | 7439-95-4  | Magnesium                 | T        | ug/l | 35000 <sup>(3)</sup>  | 24300  | 52200  | 41700  | 44200   |
| SW6010   | 7439-96-5  | Manganese                 | T        | ug/l | 300   | 1490   | 3780   | 11800  | 8980  |
| SW6010   | 7440-02-0  | Nickel                    | T        | ug/l | 100   | 40 U   | 40 U   | 40 U   | 40 U  |
| SW6010   | 7440-09-7  | Potassium                 | T        | ug/l | NS  | 3580   | 7680   | 5700   | 5710  |
| SW6010   | 7440-23-5  | Sodium                    | T        | ug/l | 20000   | 28400  | 41100  | 17800  | 19200   |
| SW6010   | 7440-28-0  | Thallium                  | T        | ug/l | 0.5 <sup>(3)</sup>  | 10 U   | 12.7   | 10 U   | 10 U  |
| SW6010   | 7440-62-2  | Vanadium                  | T        | ug/l | NS  | 2.5 J  | 50 U   | 1.5 J  | 1.6 J   |
| SW6010   | 7440-66-6  | Zinc                      | T        | ug/l | 2000 <sup>(3)</sup>   | 16.7 J   | 20 U   | 34   | 24.9  |
| SW7470   | 7439-97-6  | Mercury                   | T        | ug/l | 0.7   | 0.2 U  | 0.2 U  | 0.101 J  | 0.089 J   |
|  |            | Metals - Dissolved        |          |      |   |  |  |  |   |
| SW6010   | 7429-90-5  | Aluminum                  | D        | ug/l | NS  | 100 U  | 100 U  | 100 U  | 100 U   |
| SW6010   | 7440-38-2  | Arsenic                   | D        | ug/l | 25  | 10 U   | 10 U   | 7.2 J  | 10 U  |
| SW6010   | 7440-39-3  | Barium                    | D        | ug/l | 1000  | 98.8   | 51.1   | 376  | 365   |
| SW6010   | 7440-41-7  | Beryllium                 | D        | ug/l | 3 <sup>(3)</sup>  | 3 U  | 3 U  | 3 U  | 3 U   |
| SW6010   | 7440-43-9  | Cadmium                   | D        | ug/l | 5   | 5 U  | 5 U  | 5 U  | 5 U   |
| SW6010   | 7440-70-2  | Calcium                   | D        | ug/l | NS  | 129000   | 526000   | 193000   | 192000  |
| SW6010   | 7440-48-4  | Cobalt                    | D        | ug/l | NS  | 2.1 J  | 12.1 J   | 2.8 J  | 3.2 J   |
| SW6010   | 7439-89-6  | Iron                      | D        | ug/l | 300   | 5140   | 1470   | 37200  | 36200   |
| SW6010   | 7439-92-1  | Lead                      | D        | ug/l | 25  | 50 U   | 50 U   | 2.2 J  | 50 U  |
| SW6010   | 7439-95-4  | Magnesium                 | D        | ug/l | 35000 <sup>(3)</sup>  | 23700  | 51900  | 45300  | 44200   |
| SW6010   | 7439-96-5  | Manganese                 | D        | ug/l | 300   | 1470   | 3520   | 9270   | 9550  |
| SW6010   | 7440-02-0  | Nickel                    | D        | ug/l | 100   | 40 U   | 40 U   | 40 U   | 40 U  |
| SW6010   | 7440-09-7  | Potassium                 | D        | ug/l | NS  | 3230   | 7850   | 5830   | 5740  |
| SW6010   | 7440-23-5  | Sodium                    | D        | ug/l | 20000   | 29800  | 44100  | 19700  | 19200   |

TABLE 9 FOCUSED RI SITE 110 GROUNDWATER ANALYTICAL SUMMARY SEPTEMBER 2021

| Location Description<br>Location ID<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code |             |                             |          |      |   | MW-07-2020<br>MW-07-2020<br>MW-07-2020-09242021<br>GW<br>R2110043-012/R2110043-013<br>9/24/2021<br>REG |   | MW-08-2020<br>MW-08-2020<br>MW-08-2020-09232021<br>GW<br>R2110043-003/R2110043-004<br>9/23/2021<br>REG |   | MW-16-2020<br>MW-16-2020<br>MW-16-2020-09232021<br>GW<br>R2110043-001/R2110043-002<br>9/23/2021<br>REG |   | MW-16-2020<br>MW-16-2020<br>MW-16-2020-09232021FD<br>GW<br>R2110043-007/R2110043-008<br>9/23/2021<br>FD |   |
|--|-------------|-----------------------------|----------|------|---|--|---|--|---|--|---|---|---|
| Analytical Method  | CAS_RN      | Chemical Name               | FRACTION | Unit | Class GA<br>Groundwater<br>Quality<br>Standard or<br>Guidance<br>Value <sup>(1)</sup> |  |   |  |   |  |   |   |   |
| SW6010   | 7440-28-0   | Thallium                    | D        | ug/l | 0.5 <sup>(3)</sup>  | 10   | U | 8.2  | J | 10   | U | 10  | U |
| SW6010   | 7440-62-2   | Vanadium                    | D        | ug/l | NS  | 50   | U | 50   | U | 1  | J | 1.2   | J |
| SW6010   | 7440-66-6   | Zinc                        | D        | ug/l | 2000 <sup>(3)</sup>   | 6.6  | J | 2.7  | J | 8.2  | J | 7.3   | J |
| SW7470   | 7439-97-6   | Mercury                     | D        | ug/l | 0.7   | 0.2  | U | 0.2  | U | 0.2  | U | 0.2   | U |
|  |             | PCBS - Total                |          |      |   |  |   |  |   |  |   |   |   |
|  |             | PCBS - Dissolved            |          |      |   |  |   |  |   |  |   |   |   |
|  |             | Volatiles                   |          |      |   |  |   |  |   |  |   |   |   |
| SW8260   | 78-93-3     | 2-Butanone                  | T        | ug/l | 50  | 5  | U | 5  | U | 5  | U | 5   | U |
| SW8260   | 67-64-1     | Acetone                     | T        | ug/l | 50  | 5  | U | 5  | U | 5  | U | 5   | U |
| SW8260   | 71-43-2     | Benzene                     | T        | ug/l | 1   | 1  | U | 1  | U | 1  | U | 1   | U |
| SW8260   | 75-27-4     | Bromodichloromethane        | T        | ug/l | 50 <sup>(3)</sup>   | 1  | U | 1  | U | 1  | U | 1   | U |
| SW8260   | 74-83-9     | Bromomethane                | T        | ug/l | 5   | 1.4  | J | 1  | J | 1  | J | 1   | J |
| SW8260   | 67-66-3     | Chloroform                  | T        | ug/l | 7   | 1  | U | 1  | U | 1  | U | 1   | U |
| SW8260   | 74-87-3     | Chloromethane               | T        | ug/l | 5   | 1.5  | U | 1  | U | 1.2  | U | 1.3   | U |
| SW8260   | 100-41-4    | Ethylbenzene                | T        | ug/l | 5   | 1  | U | 1  | U | 1  | U | 1   | U |
| SW8260   | 98-82-8     | Isopropylbenzene            | T        | ug/l | 5   | 1  | U | 1  | U | 1  | U | 1   | U |
| SW8260   | XYLENES1314 | m&p-Xylenes                 | T        | ug/l | 5 <sup>(4)</sup>  | 2  | U | 2  | U | 2  | U | 2   | U |
| SW8260   | 1634-04-4   | Methyl Tert-Butyl Ether     | T        | ug/l | 10  | 1  | U | 0.24   | J | 1  | U | 1   | U |
| SW8260   | 95-47-6     | o-Xylene                    | T        | ug/l | 5   | 1  | U | 1  | U | 1  | U | 1   | U |
| SW8260   | 100-42-5    | Styrene                     | T        | ug/l | 5   | 1  | U | 1  | U | 1  | U | 1   | U |
| SW8260   | 108-88-3    | Toluene                     | T        | ug/l | 5   | 1  | U | 1  | U | 1  | U | 1   | U |
|  |             | Semivolatiles - Total       |          |      |   |  |   |  |   |  |   |   |   |
| SW8270   | 92-52-4     | 1,1'-Biphenyl               | T        | ug/l | 5   | 1  | U | 0.93   | U | 0.98   | U | 0.93  | U |
| SW8270   | 91-57-6     | 2-Methylnaphthalene         | T        | ug/l | NS  | 0.2  | U | 0.19   | U | 0.068  | J | 0.085   | J |
| SW8270   | 83-32-9     | Acenaphthene                | T        | ug/l | 20 <sup>(3)</sup>   | 0.2  | U | 0.16   | J | 0.76   |   | 1.1   |   |
| SW8270   | 208-96-8    | Acenaphthylene              | T        | ug/l | NS  | 0.2  | U | 0.079  | J | 0.4  |   | 0.55  |   |
| SW8270   | 120-12-7    | Anthracene                  | T        | ug/l | 50 <sup>(3)</sup>   | 0.2  | U | 0.11   | J | 0.18   | J | 0.32  |   |
| SW8270   | 56-55-3     | Benzo(A)Anthracene          | T        | ug/l | 0.002 <sup>(3)</sup>  | 0.2  | U | 0.19   | U | 0.15   | J | 0.2   |   |
| SW8270   | 50-32-8     | Benzo(A)Pyrene              | T        | ug/l | ND  | 0.2  | U | 0.19   | U | 0.12   | J | 0.17  | J |
| SW8270   | 205-99-2    | Benzo(B)Fluoranthene        | T        | ug/l | 0.002 <sup>(3)</sup>  | 0.2  | U | 0.19   | U | 0.14   | J | 0.17  | J |
| SW8270   | 191-24-2    | Benzo(G,H,I)perylene        | T        | ug/l | NS  | 0.2  | U | 0.19   | U | 0.2  | U | 0.19  | U |
| SW8270   | 207-08-9    | Benzo(K)Fluoranthene        | T        | ug/l | 0.002 <sup>(3)</sup>  | 0.2  | U | 0.19   | U | 0.2  | U | 0.096   | J |
| SW8270   | 117-81-7    | bis-(2-Ethylhexyl)Phthalate | T        | ug/l | 5   | 5.1  | U | 4.7  | U | 4.9  | U | 4.7   | U |
| SW8270   | 86-74-8     | Carbazole                   | T        | ug/l | NS  | 1  | U | 1.3  |   | 0.43   | J | 0.52  | J |
| SW8270   | 218-01-9    | Chrysene                    | T        | ug/l | 0.002 <sup>(3)</sup>  | 0.2  | U | 0.19   | U | 0.1  | J | 0.14  | J |
| SW8270   | 132-64-9    | Dibenzofuran                | T        | ug/l | NS  | 0.2  | U | 0.42   |   | 0.24   |   | 0.35  |   |
| SW8270   | 206-44-0    | Fluoranthene                | T        | ug/l | 50 <sup>(3)</sup>   | 0.11   | J | 0.3  |   | 0.58   |   | 0.84  |   |
| SW8270   | 86-73-7     | Fluorene                    | T        | ug/l | 50 <sup>(3)</sup>   | 0.2  | U | 0.17   | J | 0.7  |   | 1   |   |
| SW8270   | 193-39-5    | Indeno(1,2,3-Cd)Pyrene      | T        | ug/l | 0.002 <sup>(3)</sup>  | 0.2  | U | 0.19   | U | 0.2  | U | 0.19  | U |
| SW8270   | 91-20-3     | Naphthalene                 | T        | ug/l | 10 <sup>(3)</sup>   | 0.078  | J | 0.19   | U | 1.6  |   | 1.9   |   |
| SW8270   | 85-01-8     | Phenanthrene                | T        | ug/l | 50  | 0.2  | U | 0.19   | U | 0.99   |   | 1.4   |   |

TABLE 9 FOCUSED RI SITE 110 GROUNDWATER ANALYTICAL SUMMARY SEPTEMBER 2021

| Location Description<br>Location ID<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code |          |                             |          |      |   | MW-07-2020<br>MW-07-2020<br>MW-07-2020-09242021<br>GW<br>R2110043-012/R2110043-013<br>9/24/2021<br>REG |   | MW-08-2020<br>MW-08-2020<br>MW-08-2020-09232021<br>GW<br>R2110043-003/R2110043-004<br>9/23/2021<br>REG |   | MW-16-2020<br>MW-16-2020<br>MW-16-2020-09232021<br>GW<br>R2110043-001/R2110043-002<br>9/23/2021<br>REG |   | MW-16-2020<br>MW-16-2020<br>MW-16-2020-09232021FD<br>GW<br>R2110043-007/R2110043-008<br>9/23/2021<br>FD |   |
|--|----------|-----------------------------|----------|------|---|--|---|--|---|--|---|---|---|
| Analytical Method  | CAS_RN   | Chemical Name               | FRACTION | Unit | Class GA<br>Groundwater<br>Quality<br>Standard or<br>Guidance<br>Value <sup>(1)</sup> |  |   |  |   |  |   |   |   |
| SW8270   | 129-00-0 | Pyrene                      | T        | ug/l | 50 <sup>(3)</sup>   | 0.2  | U | 0.18   | J | 0.39   |   | 0.59  |   |
|  |          | Semivolatiles - Dissolved   |          |      |   |  |   |  |   |  |   |   |   |
| SW8270   | 92-52-4  | 1,1'-Biphenyl               | D        | ug/l | 5   | 0.97   | U | 0.98   | U | 1.1  | U | 0.93  | U |
| SW8270   | 91-57-6  | 2-Methylnaphthalene         | D        | ug/l | NS  | 0.19   | U | 0.2  | U | 0.22   | U | 0.19  | U |
| SW8270   | 83-32-9  | Acenaphthene                | D        | ug/l | 20 <sup>(3)</sup>   | 0.19   | U | 0.12   | J | 0.45   |   | 0.77  |   |
| SW8270   | 208-96-8 | Acenaphthylene              | D        | ug/l | NS  | 0.19   | U | 0.058  | J | 0.24   |   | 0.39  |   |
| SW8270   | 120-12-7 | Anthracene                  | D        | ug/l | 50 <sup>(3)</sup>   | 0.19   | U | 0.074  | J | 0.22   | U | 0.084   | J |
| SW8270   | 205-99-2 | Benzo(B)Fluoranthene        | D        | ug/l | 0.002 <sup>(3)</sup>  | 0.19   | U | 0.2  | U | 0.22   | U | 0.069   | J |
| SW8270   | 117-81-7 | bis-(2-Ethylhexyl)Phthalate | D        | ug/l | 5   | 4.1  | J | 180  |   | 5.6  | U | 4.7   | U |
| SW8270   | 86-74-8  | Carbazole                   | D        | ug/l | NS  | 0.97   | U | 1.2  |   | 1.1  | U | 0.38  | J |
| SW8270   | 132-64-9 | Dibenzofuran                | D        | ug/l | NS  | 0.19   | U | 0.26   |   | 0.22   | U | 0.14  | J |
| SW8270   | 84-74-2  | Di-n-Butyl Phthalate        | D        | ug/l | 50  | 4.9  | U | 4.9  | U | 5.6  | U | 4.7   | U |
| SW8270   | 86-73-7  | Fluorene                    | D        | ug/l | 50 <sup>(3)</sup>   | 0.19   | U | 0.18   | J | 0.11   | J | 0.57  |   |
| SW8270   | 91-20-3  | Naphthalene                 | D        | ug/l | 10 <sup>(3)</sup>   | 0.19   | U | 0.48   |   | 0.91   |   | 1.2   |   |
| SW8270   | 85-01-8  | Phenanthrene                | D        | ug/l | 50  | 0.19   | U | 0.2  | U | 0.22   | U | 0.23  |   |
|  |          | Cyanide - Total             |          |      |   |  |   |  |   |  |   |   |   |
| SW9012   | 57-12-5  | Cyanide, Total              | T        | ug/l | 200   | 208  |   | 2040   |   | 557  |   | 494   |   |
|  |          | Cyanide - Dissolved         |          |      |   |  |   |  |   |  |   |   |   |
| SW9012   | 57-12-5  | Cyanide                     | D        | ug/l | 200   | 202  |   | 1940   |   | 489  |   | 457   |   |
|  |          | TOC                         |          |      |   |  |   |  |   |  |   |   |   |
| SW9060   | TOC      | Total Organic Carbon        | T        | ug/l | NS  |  |   | 12800  |   |  |   |   |   |

(1) Unless otherwise noted, groundwater criteria obtained from the NYSDEC document titled, "Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values

(2) Applies to the sum of these substances.

(3) Guidance value (from TOGS 1.1.1)

(4) Applies to the individual isomer.

Only detected compounds are presented

Shaded: Value exceeds standard or guidance value

U: Compound not detected at provided detection limit

J: Estimated at given value

NS: No standard established

TABLE 10 PHASE II RI SITE 110 GROUNDWATER ANALYTICAL SUMMARY JANUARY 2023

|                   |           |                           |              |      | Location Description<br>Location ID<br>Sample ID<br>Matrix<br>Lab Sample ID<br>Sample Date<br>Sample Type Code | MW-23-2022<br>MW-23-2022<br>MW-23-2022-20230120<br>GW<br>R2300544-001/<br>1/20/2023<br>REG | MW-23-2022<br>MW-23-2022<br>MW-23-2022-<br>G<br>R23005-<br>1/20/<br>F |
|-------------------|-----------|---------------------------|--------------|------|--|--|---|
| Analytical Method | CAS_RN    | Chemical Name             | FRACT<br>ION | Unit | Class GA<br>Groundwater<br>Quality Standard<br>or Guidance<br>Value <sup>(1)</sup>                             |  |   |
|                   |           | TOC                       |              |      |  |  |   |
| SM5310B           | TOC       | Total Organic Carbon      | T            | ug/l | NS   | 5000   | 5400  |
|                   |           | Metals - Totals           |              |      |  |  |   |
| SW6010            | 7429-90-5 | Aluminum                  | T            | ug/l | NS   | 100  | 40  |
| SW6010            | 7440-39-3 | Barium                    | T            | ug/l | 1000   | 341  | 339   |
| SW6010            | 7440-70-2 | Calcium                   | T            | ug/l | NS   | 151000   | 149000  |
| SW6010            | 7440-48-4 | Cobalt                    | T            | ug/l | NS   | 3  | 3   |
| SW6010            | 7439-89-6 | Iron                      | T            | ug/l | 300  | 25900  | 25900   |
| SW6010            | 7439-95-4 | Magnesium                 | T            | ug/l | 35000 <sup>(2)</sup>   | 24200  | 24000   |
| SW6010            | 7439-96-5 | Manganese                 | T            | ug/l | 300  | 1130   | 1120  |
| SW6010            | 7440-09-7 | Potassium                 | T            | ug/l | NS   | 4500   | 4400  |
| SW6010            | 7440-23-5 | Sodium                    | T            | ug/l | 20000  | 16300  | 16300   |
| SW6010            | 7440-62-2 | Vanadium                  | T            | ug/l | NS   | 1  | 1   |
| SW6010            | 7440-66-6 | Zinc                      | T            | ug/l | 2000 <sup>(2)</sup>  | 6  | 4   |
|                   |           | Metals - Dissolved        |              |      |  |  |   |
| SW6010            | 7429-90-5 | Aluminum                  | D            | ug/l | NS   | 100  | 100   |
| SW6010            | 7440-39-3 | Barium                    | D            | ug/l | 1000   | 340  | 324   |
| SW6010            | 7440-70-2 | Calcium                   | D            | ug/l | NS   | 149000   | 145000  |
| SW6010            | 7440-48-4 | Cobalt                    | D            | ug/l | NS   | 4  | 2   |
| SW6010            | 7439-89-6 | Iron                      | D            | ug/l | 300  | 25500  | 24700   |
| SW6010            | 7439-95-4 | Magnesium                 | D            | ug/l | 35000 <sup>(2)</sup>   | 23800  | 23100   |
| SW6010            | 7439-96-5 | Manganese                 | D            | ug/l | 300  | 1080   | 1040  |
| SW6010            | 7440-09-7 | Potassium                 | D            | ug/l | NS   | 4400   | 4200  |
| SW6010            | 7440-23-5 | Sodium                    | D            | ug/l | 20000  | 16000  | 16200   |
| SW6010            | 7440-62-2 | Vanadium                  | D            | ug/l | NS   | 1  | 0.9   |
| SW6010            | 7440-66-6 | Zinc                      | D            | ug/l | 2000 <sup>(2)</sup>  | 3  | 3   |
|                   |           | Volatiles                 |              |      |  |  |   |
|                   |           | Semivolatiles - Total     |              |      |  |  |   |
| SW8270            | 56-55-3   | Benzo(A)Anthracene        | T            | ug/l | 0.002 <sup>(2)</sup>   | 0.093  | 0.19  |
| SW8270            | 205-99-2  | Benzo(B)Fluoranthene      | T            | ug/l | 0.002 <sup>(2)</sup>   | 0.086  | 0.19  |
| SW8270            | 111-44-4  | bis-(2-Chloroethyl)Ether  | T            | ug/l | 1  | 0.068  | 0.93  |
| SW8270            | 129-00-0  | Pyrene                    | T            | ug/l | 50 <sup>(2)</sup>  | 0.074  | 0.19  |
|                   |           | Semivolatiles - Dissolved |              |      |  |  |   |
| SW8270            | 111-44-4  | bis-(2-Chloroethyl)Ether  | D            | ug/l | 1  | 0.93   | 0.057   |
|                   |           | Cyanide - Total           |              |      |  |  |   |
| SW9012            | 57-12-5   | Cyanide                   | NA           | ug/l | 200  | 205  | 208   |
|                   |           | Cyanide - Dissolved       |              |      |  |  |   |
| SW9012            | 57-12-5   | Cyanide                   | D            | ug/l | 200  | 201  | 206   |

(1) Unless otherwise noted, groundwater criteria obtained from the NYSDEC document titled, "Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Values and Groundwater Effluent Limitations," June 1998; Errata Sheet for June 1998 Edition. Criteria listed are standards unless otherwise noted.

(2) Guidance value (from TOGS 1.1.1)

Only detected compounds are presented

Shaded: Value exceeds standard or guidance value  
 U: Compound not detected at provided detection limit  
 J: Estimated at given value  
 NS: No standard established

TABLE 10 PHASE II RI SITE 110 GROUNDWATER ANALYTICAL SUMMARY JANUARY 2023

|                   |           |                           |              |      | Ld-2022<br>1-2022<br>20230120FD<br>W<br>44-003/<br>2023<br>D |
|-------------------|-----------|---------------------------|--------------|------|--|
| Analytical Method | CAS_RN    | Chemical Name             | FRACT<br>ION | Unit |  |
|                   |           | TOC                       |              |      |  |
| SM5310B           | TOC       | Total Organic Carbon      | T            | ug/l |  |
|                   |           | Metals - Totals           |              |      |  |
| SW6010            | 7429-90-5 | Aluminum                  | T            | ug/l | J  |
| SW6010            | 7440-39-3 | Barium                    | T            | ug/l |  |
| SW6010            | 7440-70-2 | Calcium                   | T            | ug/l |  |
| SW6010            | 7440-48-4 | Cobalt                    | T            | ug/l | J  |
| SW6010            | 7439-89-6 | Iron                      | T            | ug/l |  |
| SW6010            | 7439-95-4 | Magnesium                 | T            | ug/l |  |
| SW6010            | 7439-96-5 | Manganese                 | T            | ug/l |  |
| SW6010            | 7440-09-7 | Potassium                 | T            | ug/l |  |
| SW6010            | 7440-23-5 | Sodium                    | T            | ug/l |  |
| SW6010            | 7440-62-2 | Vanadium                  | T            | ug/l | J  |
| SW6010            | 7440-66-6 | Zinc                      | T            | ug/l | J  |
|                   |           | Metals - Dissolved        |              |      |  |
| SW6010            | 7429-90-5 | Aluminum                  | D            | ug/l | U  |
| SW6010            | 7440-39-3 | Barium                    | D            | ug/l |  |
| SW6010            | 7440-70-2 | Calcium                   | D            | ug/l |  |
| SW6010            | 7440-48-4 | Cobalt                    | D            | ug/l | J  |
| SW6010            | 7439-89-6 | Iron                      | D            | ug/l |  |
| SW6010            | 7439-95-4 | Magnesium                 | D            | ug/l |  |
| SW6010            | 7439-96-5 | Manganese                 | D            | ug/l |  |
| SW6010            | 7440-09-7 | Potassium                 | D            | ug/l |  |
| SW6010            | 7440-23-5 | Sodium                    | D            | ug/l |  |
| SW6010            | 7440-62-2 | Vanadium                  | D            | ug/l | J  |
| SW6010            | 7440-66-6 | Zinc                      | D            | ug/l | J  |
|                   |           | Volatiles                 |              |      |  |
|                   |           | Semivolatiles - Total     |              |      |  |
| SW8270            | 56-55-3   | Benzo(A)Anthracene        | T            | ug/l | U  |
| SW8270            | 205-99-2  | Benzo(B)Fluoranthene      | T            | ug/l | U  |
| SW8270            | 111-44-4  | bis-(2-Chloroethyl)Ether  | T            | ug/l | U  |
| SW8270            | 129-00-0  | Pyrene                    | T            | ug/l | U  |
|                   |           | Semivolatiles - Dissolved |              |      |  |
| SW8270            | 111-44-4  | bis-(2-Chloroethyl)Ether  | D            | ug/l | J  |
|                   |           | Cyanide - Total           |              |      |  |
| SW9012            | 57-12-5   | Cyanide                   | NA           | ug/l |  |
|                   |           | Cyanide - Dissolved       |              |      |  |
| SW9012            | 57-12-5   | Cyanide                   | D            | ug/l |  |

(1) Unless otherwise noted, groundwater criteria obtained from the NYSDEC document titled, "Division of Water Technical and Guidance Values and Groundwater Effluent Limitations," June 1998; Errata Sheet for June 1998 Edition. Criteria listed are standards or

(2) Guidance value (from TOGS 1.1.1)

Only detected compounds are presented

Shaded: Value exceeds standard or guidance value  
 U: Compound not detected at provided detection limit  
 J: Estimated at given value  
 NS: No standard established

TABLE 11 FOCUSED RI SITE 110 MNA SAMPLE RESULTS

|            |                |                           |       |          | Location ID      | MW-04-2020          | MW-05-2020          | MW-06-2020          | MW-06-2020 <sup>1</sup> | MW-08-2020          |
|------------|----------------|---------------------------|-------|----------|------------------|---------------------|---------------------|---------------------|-------------------------|---------------------|
|            |                |                           |       |          | Field Sample ID  | MW-04-2020-09222021 | MW-05-2020-09232021 | MW-06-2020-09222021 | MW-06-2020-09232021     | MW-08-2020-09232021 |
|            |                |                           |       |          | Start Depth (ft) | 5                   | 4                   | 4                   | 4                       | 1                   |
|            |                |                           |       |          | End Depth (ft)   | 10                  | 9                   | 9                   | 6                       | 6                   |
|            |                |                           |       |          | Sampled          | 9/22/2021           | 9/23/2021           | 9/22/2021           | 9/23/2021               | 9/23/2021           |
|            |                |                           |       |          | SDG              | R2109811            | R2110043            | R2109811            | R2110043                | R2110043            |
|            |                |                           |       |          | Lab Sample ID    | R2109811-004        | R2110043-005        | R2109811-007        | R2110043-009            | R2110043-003        |
|            |                |                           |       |          | Medium           | Water               | Water               | Water               | Water                   | Water               |
|            |                |                           |       |          | Sample Type      | REG                 | REG                 | REG                 | REG                     | REG                 |
|            |                |                           |       |          | Matrix           | GW                  | GW                  | GW                  | GW                      | GW                  |
| Method     | Parameter Code | Parameter Name            | Units | Fraction |                  |                     |                     |                     |                         |                     |
| Calculated | NO3N           | Nitrogen, Nitrate (As N)  | mg/L  | T        | 0.05             | U                   | 0.05                | U                   | 0.05                    | U                   |
| Calculated | 7727-37-9      | Nitrogen                  | mg/L  | T        | 3.96             |                     | 10.7                |                     | 3.76                    |                     |
| E351.2     | KN             | Total Kjeldahl Nitrogen   | mg/L  | T        | 3.93             | J                   | 10.7                |                     | 3.74                    |                     |
| E353.2     | NO3NO2N        | Nitrogen, Nitrate-Nitrite | mg/L  | T        | 0.03             | J                   | 0.052               |                     | 0.05                    | U                   |
| E353.2     | NO2N           | Nitrogen, Nitrite         | mg/L  | T        | 0.01             | U                   | 0.441               |                     | 0.01                    | U                   |
| RSK175     | 74-82-8        | Methane                   | mg/L  | T        | 0.76             |                     | 0.005               |                     | 5.6                     |                     |
| SM2320B    | ALK            | Alkalinity                | mg/L  | T        | 814              |                     | 117                 |                     | 561                     |                     |
| SW9034     | 18496-25-8     | Sulfide                   | mg/L  | T        | 1                | U                   | 4                   | U                   | 1                       | U                   |
| SW9056     | 16887-00-6     | Chloride                  | mg/L  | T        | 18.8             |                     | 31.6                |                     | 25.8                    |                     |
| SW9056     | 14808-79-8     | Sulfate                   | mg/L  | T        | 108              |                     | 2650                |                     | 61.6                    |                     |
| SW9060     | TOC            | Total Organic Carbon      | mg/L  | T        | 17.1             |                     | 11.1                |                     | NA                      |                     |
|            |                |                           |       |          |                  |                     |                     |                     | 20.6                    |                     |
|            |                |                           |       |          |                  |                     |                     |                     |                         | 12.8                |



TABLE 12 TAR WASTE CHARACTERIZATION RESULTS

|             |                |                         |          |          | Location ID<br>Field Sample ID<br>Start Depth (ft)<br>End Depth (ft)<br>Sampled<br>Medium<br>Sample Type<br>Matrix | TP-07-2020<br>TP-07-2020-2.5-3.5-10062020<br>2.5<br>3.5<br>10/6/2020<br>Solid<br>REG<br>S-WASTE | TP-08-2020<br>TP-08-2020-1.5-2.0-10012020<br>1.5<br>2<br>10/1/2020<br>Solid<br>REG<br>S-WASTE | TP-10-2020A<br>TP-10-2020A-13.5-15.5-10052020<br>13.5<br>15.5<br>10/5/2020<br>Solid<br>REG<br>S-WASTE | TP-34-2021<br>TP-34-2021-1.5-7.5-06232021<br>1.5<br>7.5<br>6/23/2021<br>Solid<br>REG<br>S-WASTE |
|-------------|----------------|-------------------------|----------|----------|--|---|---|---|---|
|             |                |                         |          |          | EPA Hazardous Waste<br>Regulatory Level  |   |   |   |   |
| Method      | Parameter Code | Parameter Name          | Units    | Fraction |  |   |   |   |   |
|             |                | Metals and Mercury      |          |          |  |   |   |   |   |
| SW6010      | 7440-38-2      | Arsenic                 | mg/kg    | T        | NA   | 6.9   | NA  | NA  | 10.6  |
| SW6010      | 7440-39-3      | Barium                  | mg/kg    | T        | NA   | 21.5  | NA  | NA  | 20.4  |
| SW6010      | 7440-43-9      | Cadmium                 | mg/kg    | T        | NA   | 1.3   | NA  | NA  | 2.4   |
| SW6010      | 7440-47-3      | Chromium                | mg/kg    | T        | NA   | 2.4   | NA  | NA  | 9.3   |
| SW6010      | 7439-92-1      | Lead                    | mg/kg    | T        | NA   | 63.6  | NA  | NA  | 60.1  |
| SW6010      | 7782-49-2      | Selenium                | mg/kg    | T        | NA   | 2.4   | NA  | NA  | 3.9   |
| SW7471      | 7439-97-6      | Mercury                 | mg/kg    | T        | NA   | 0.046   | NA  | NA  | 0.127   |
|             |                | TCLP Metals and Mercury |          |          |  |   |   |   |   |
| SW6010      | 7439-92-1      | Lead                    | mg/L     | TCLP     | 5  | NA  | 0.033 U   | 0.11  | NA  |
|             |                | Pesticides              |          |          |  |   |   |   |   |
|             |                | TCLP Pesticides         |          |          |  |   |   |   |   |
|             |                | PCBs                    |          |          |  |   |   |   |   |
|             |                | Herbicides              |          |          |  |   |   |   |   |
|             |                | TCLP Herbicides         |          |          |  |   |   |   |   |
|             |                | Volatiles               |          |          |  |   |   |   |   |
| SW8260      | 71-43-2        | Benzene                 | ug/kg    | NA       | NA   | 140000  | 99800   | 186000  | 34000   |
| SW8260      | XYLENES1314    | m&p-Xylenes             | ug/kg    | NA       | NA   | NA  | 41900   | 269000  | NA  |
| SW8260      | 95-47-6        | o-Xylene                | ug/kg    | NA       | NA   | NA  | 10300   | 76200   | NA  |
| SW8260      | 100-42-5       | Styrene                 | ug/kg    | NA       | NA   | NA  | 5000 U  | 103000  | NA  |
| SW8260      | 108-88-3       | Toluene                 | ug/kg    | NA       | NA   | NA  | 66300   | 227000  | NA  |
|             |                | Semivolatiles           |          |          |  |   |   |   |   |
| SW8270      | 95-48-7        | 2-Methylphenol          | ug/kg    | NA       | NA   | 320000 J  | NA  | NA  | 1100000 J   |
| SW8270      | 34METPH        | 3&4-Methylphenol        | ug/kg    | NA       | NA   | 800000 J  | NA  | NA  | 2700000   |
|             |                | TCLP Semivolatiles      |          |          |  |   |   |   |   |
| SW8270      | 95-48-7        | 2-Methylphenol          | ug/l     | TCLP     | 200000   | NA  | 8540  | 26300   | NA  |
| SW8270      | 1319-77-3MP    | 3,4-Methylphenol        | ug/l     | TCLP     | 200000   | NA  | 20800   | 60400   | NA  |
| SW8270      | 110-86-1       | Pyridine                | ug/l     | TCLP     | 5000   | NA  | 678   | 1360  | NA  |
|             |                | Waste Characteristics   |          |          |  |   |   |   |   |
| 846-7.3.4.2 | REAC-S         | Reactive Sulfide        | mg/kg    | NA       | Generates toxic gasses, etc.   | 3.1 U   | 6.2 U   | 3.1 UJ  | 3.2 J   |
| E160.3      | SOLID          | Solids                  | %        | NA       | NA   | NA  | 84.6  | 80.1  | NA  |
| SM2540G     | MOISTURE-%     | Percent Moisture        | %        | NA       | NA   | NA  | NA  | 19.2  | 5.6   |
| SM2540G     | SOLIDS         | Total Solids            | %        | NA       | NA   | NA  | NA  | 80.8  | 94.4  |
| SW1010      | FLASHPT        | Flash Point             | deg F    | NA       | <140   | NA  | >200  | NA  | NA  |
| SW1010      | IGNITB         | Ignitability            | deg F    | NA       | <140   | NA  | NA  | NA  | >200  |
| SW1030      | IGNITB         | Ignitability            | deg F    | NA       | <140   | NA  | NA  | >200  | NA  |
| SW9045      | pH             | pH                      | ph Units | NA       | Corrosive  | 7.12  | 7.55  | 6.96  | 7.72  |
| SW9095      | FLIQUIDS       | Free Liquids            | none     | NA       | Present  | Absent  | Absent  | Absent  | Absent  |

Notes:

Only detected compounds are presented.

Regulatory levels from 40 CFR § 261.24

Waste characteristics from 40 CFR § 261.21, 261.22. and 261.23.

NA: Not applicable

J: Estimated at given value

U: Compound not detected at provided detection limit

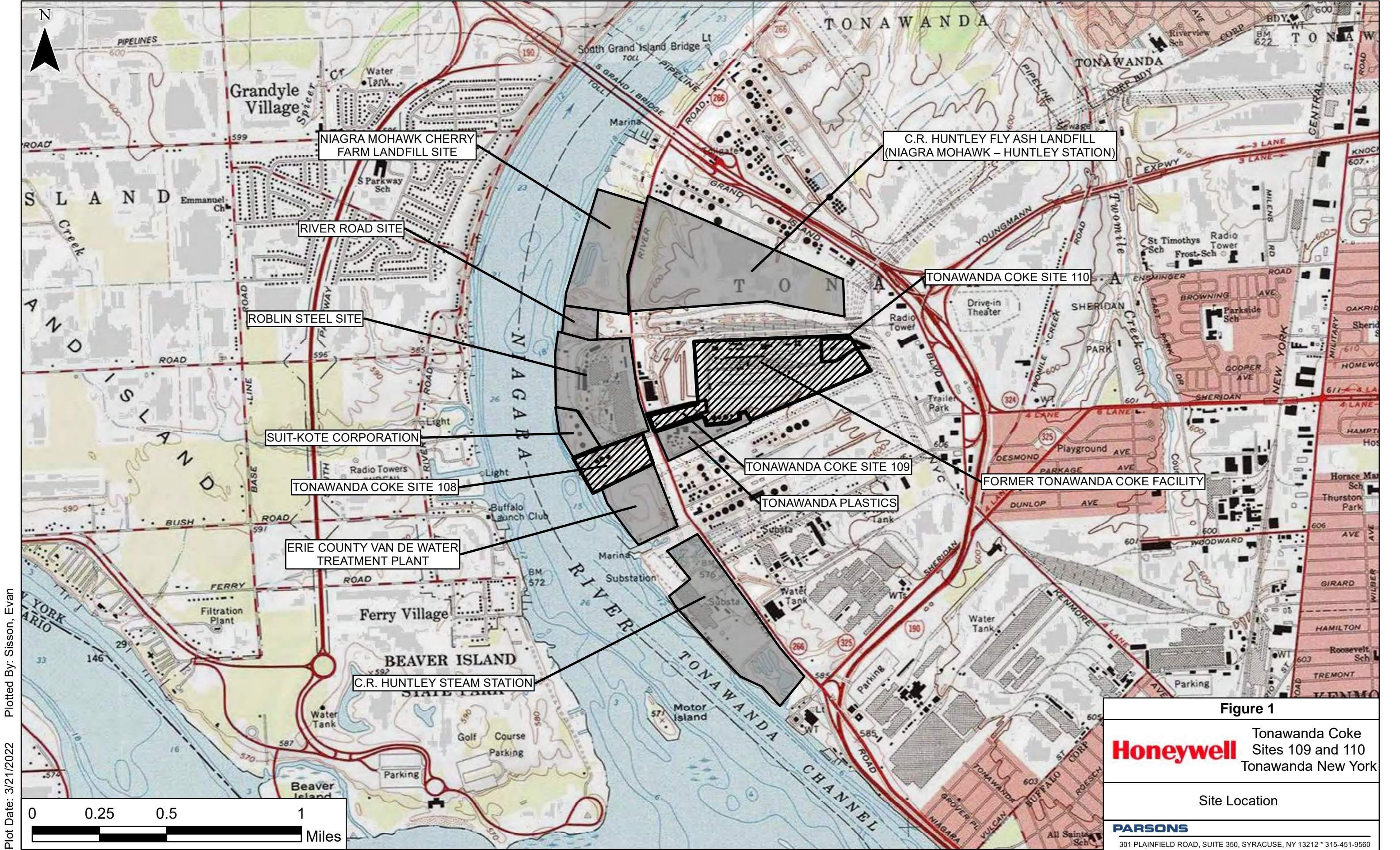
T: Total

TCLP: Toxicity Characteristic Leaching Procedure

## FIGURES

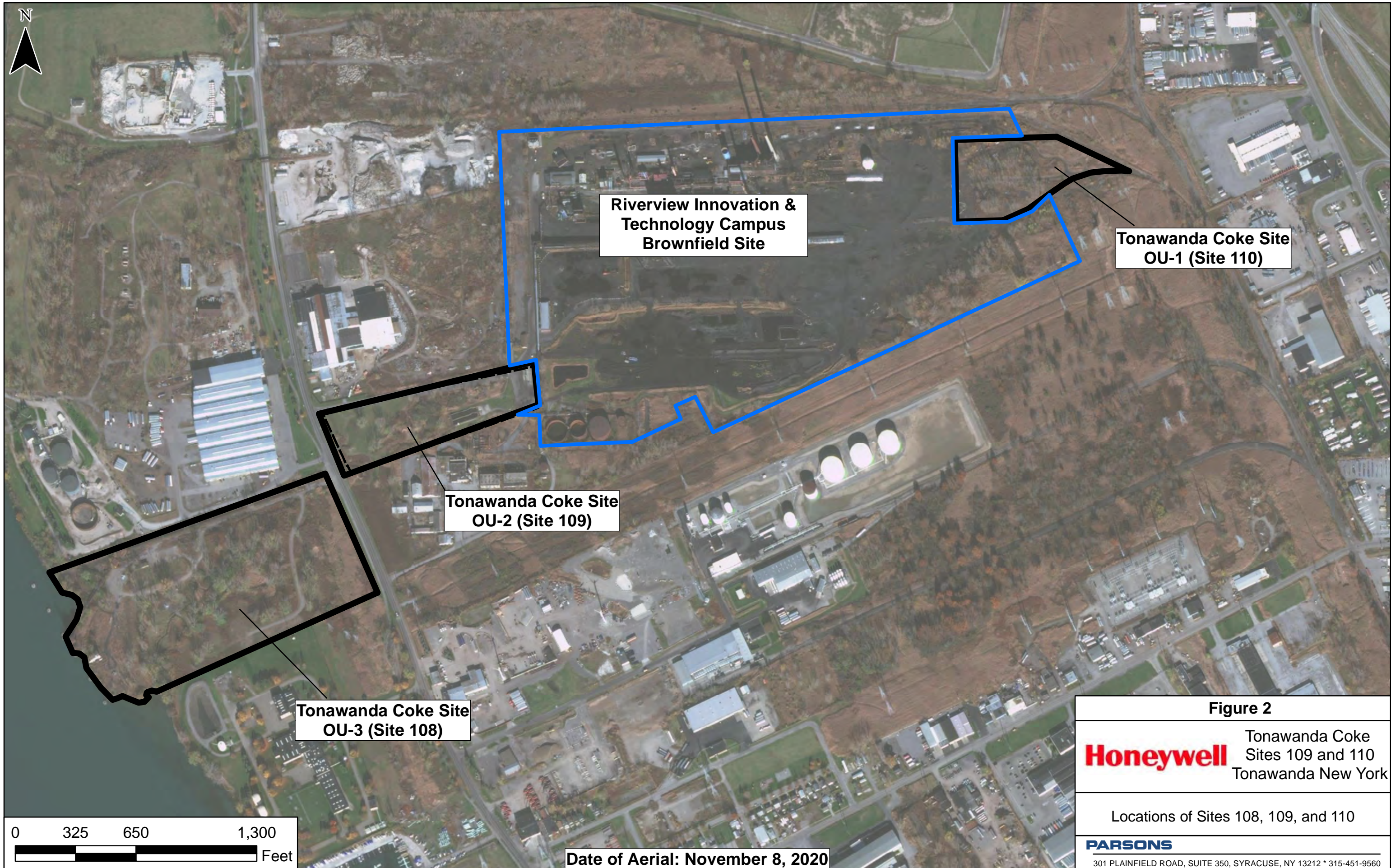
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Plot Date: 3/21/2022 Plotted By: Sisson, Evan





Plot Date: 2/4/2022  
Plotted By: CS

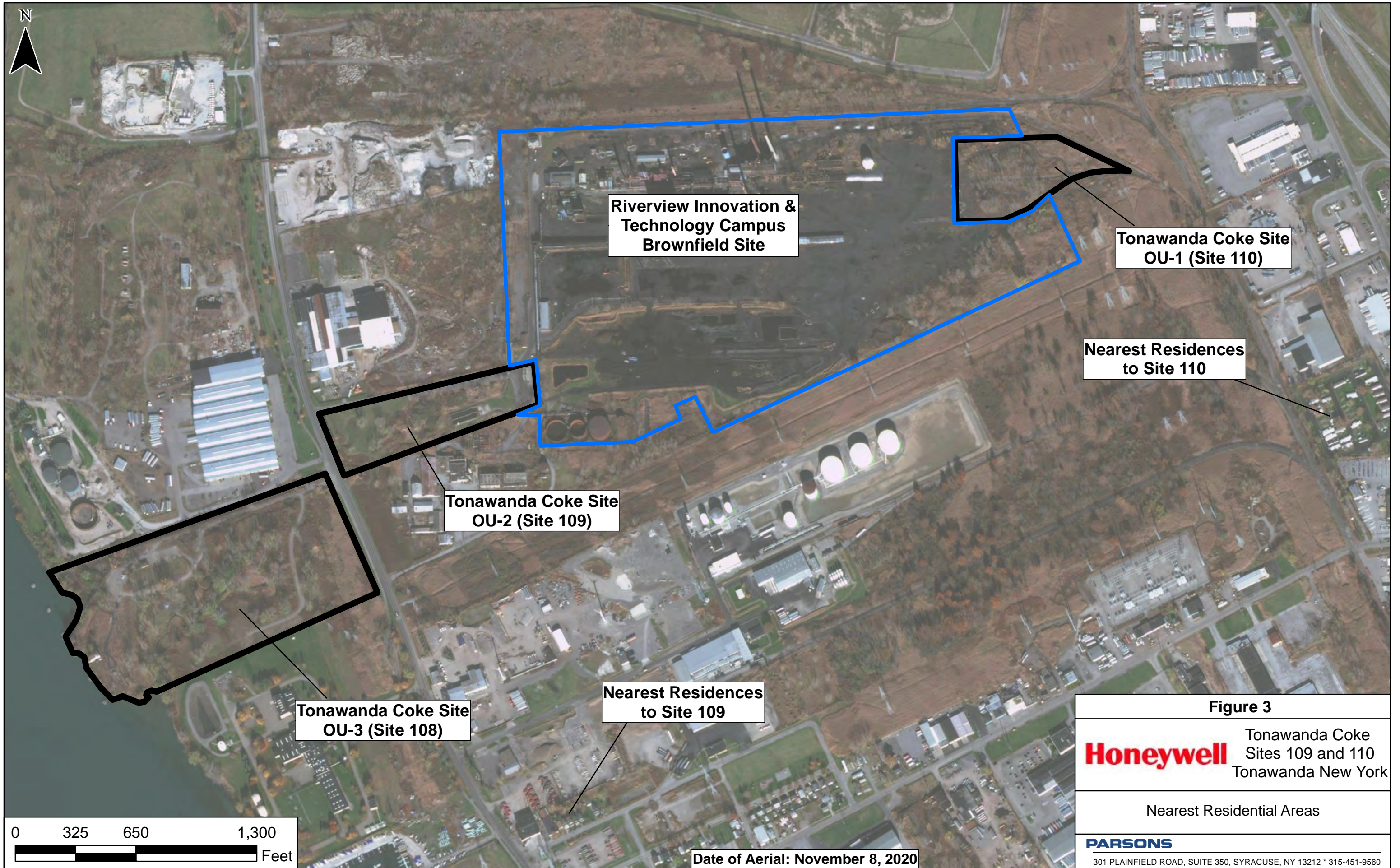
0 325 650 1,300  
Feet

Date of Aerial: November 8, 2020

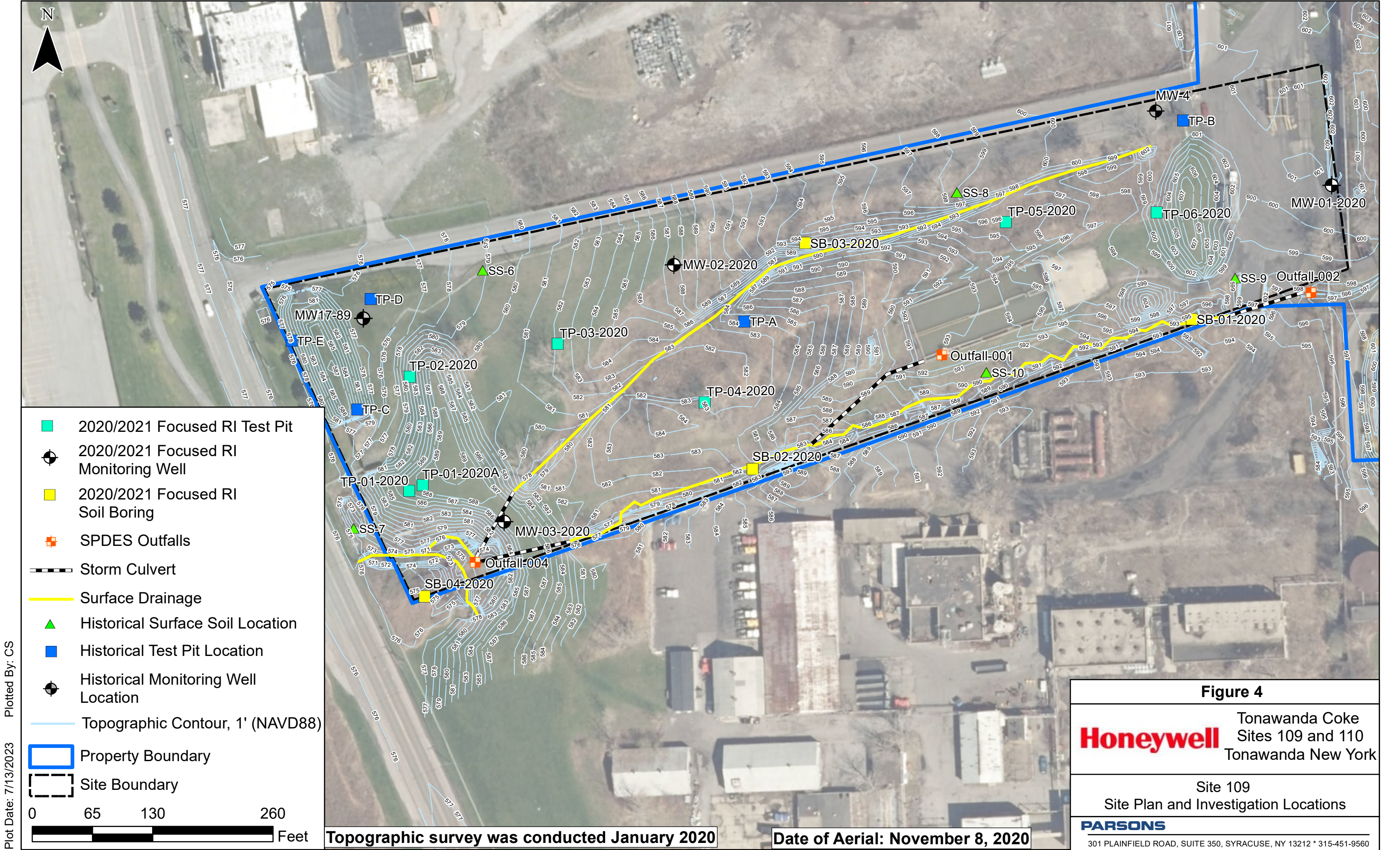
Document Path: Q:\GIS\Hon\_Syracuse\Tonawanda Coke\MXD\Site 109 and 110\Tonawanda Site 109 and 110 Fig 2.mxd

|   |   |
|---|---|
| <b>Figure 2</b>   |   |
| <b>Honeywell</b>  | Tonawanda Coke<br>Sites 109 and 110<br>Tonawanda New York |
| Locations of Sites 108, 109, and 110                              |   |
| <b>PARSONS</b>  |   |
| 301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560 |   |



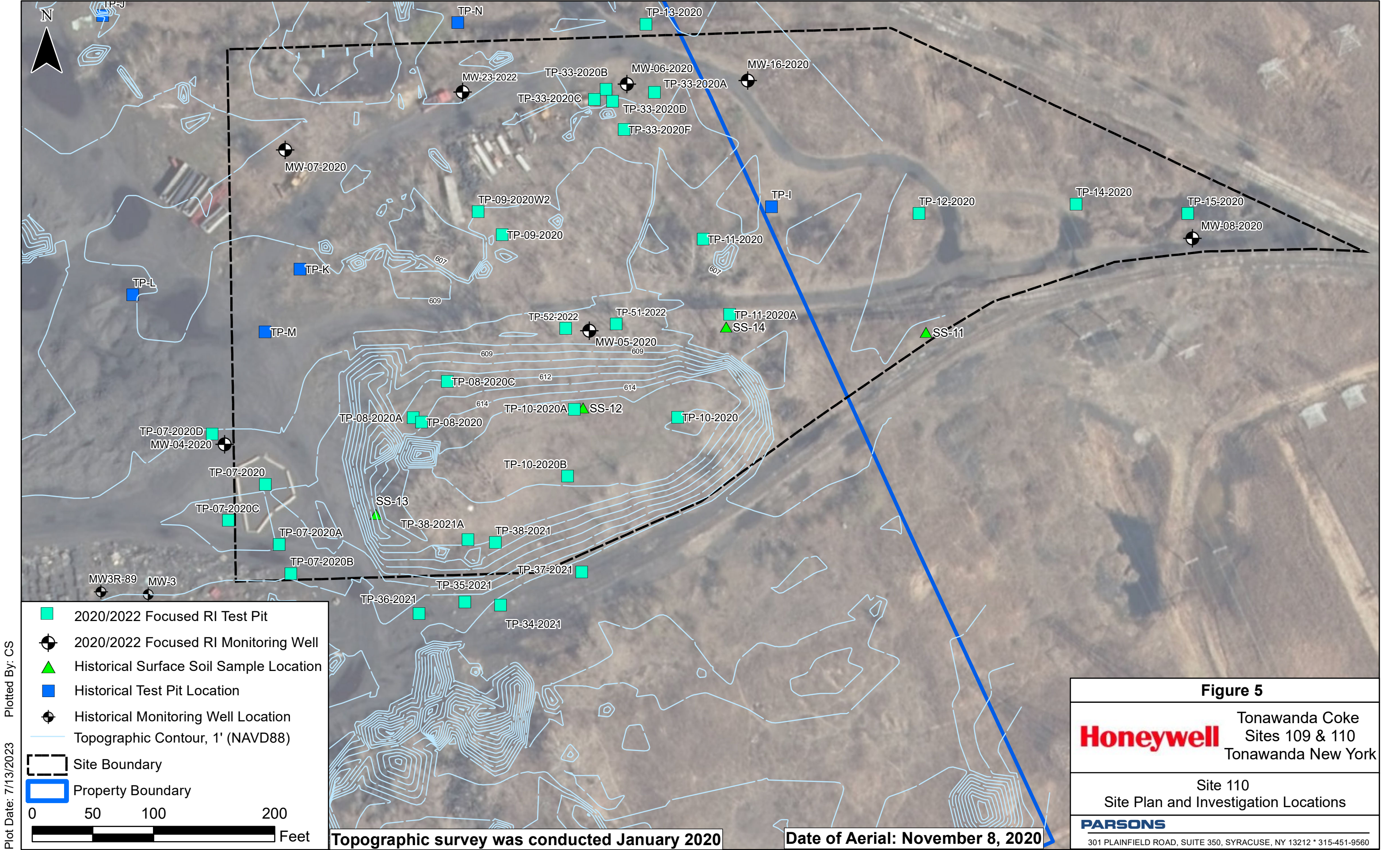




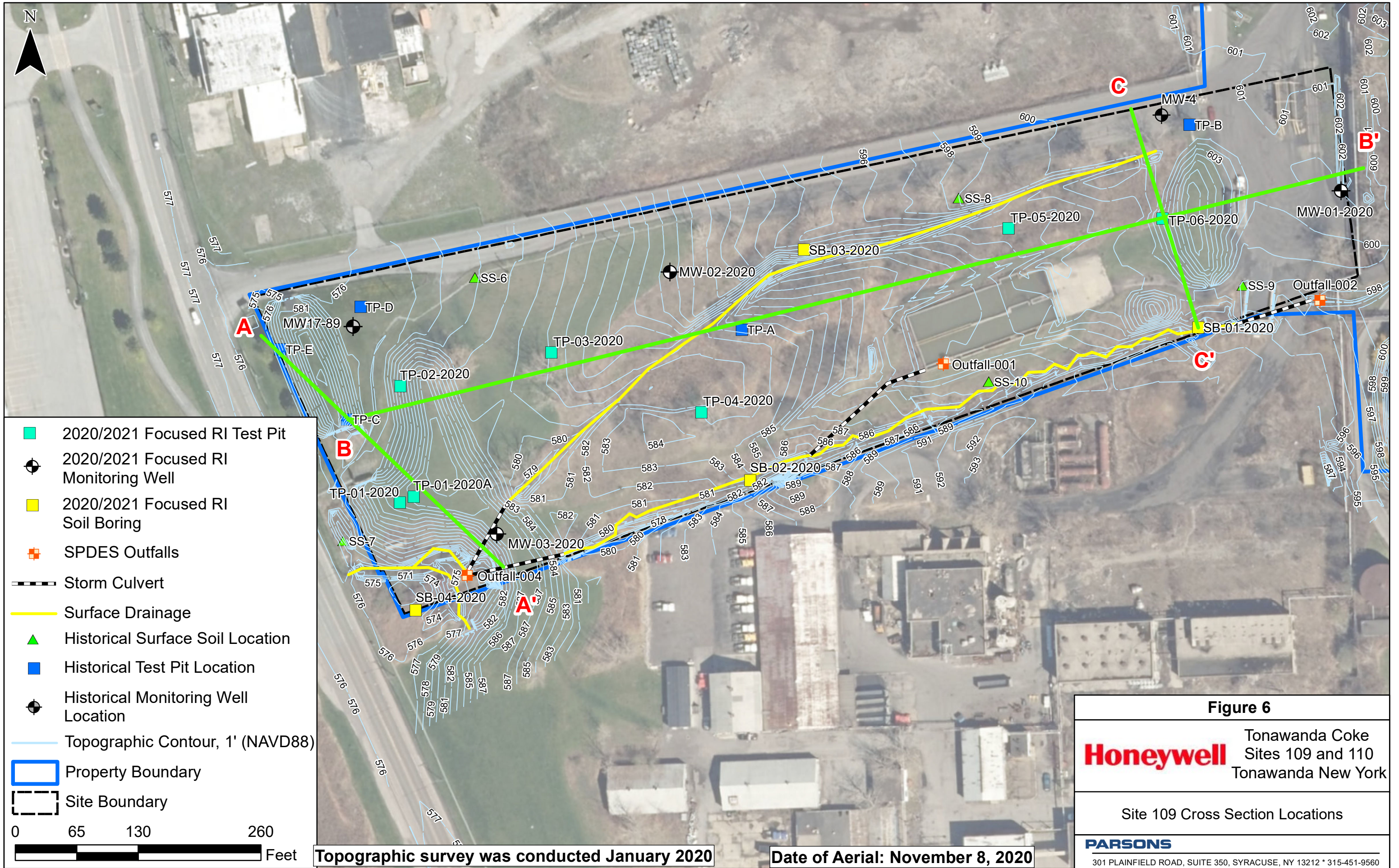


Plot Date: 7/13/2023 Plotted By: CS





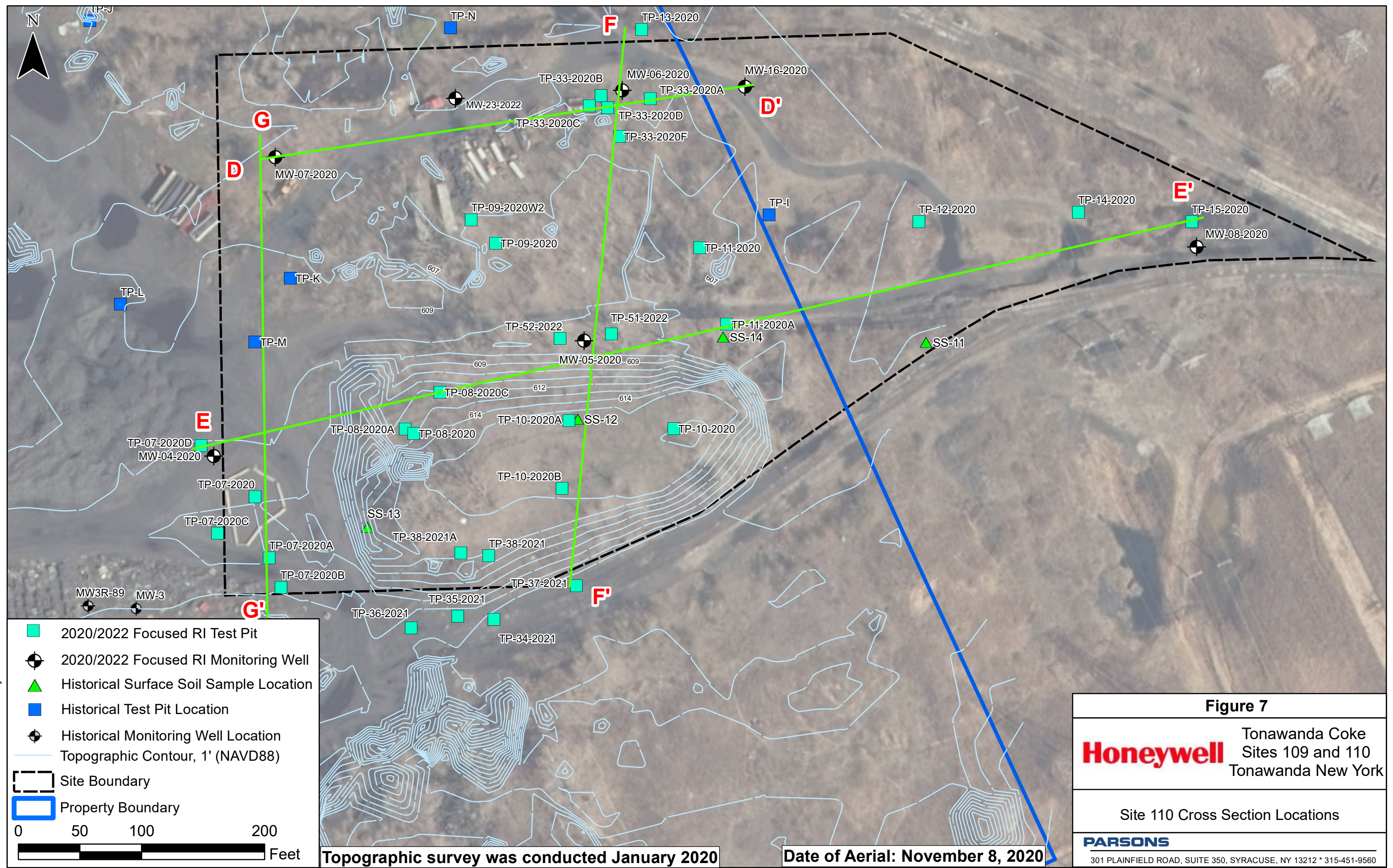




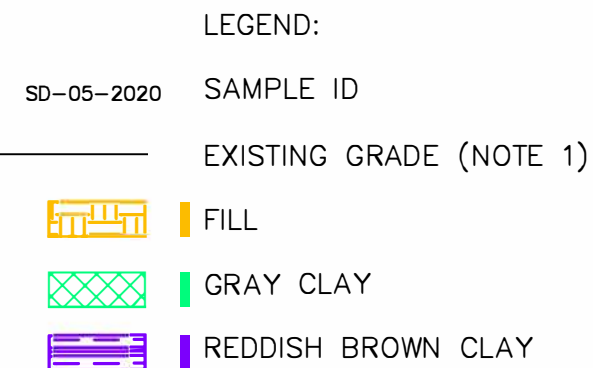
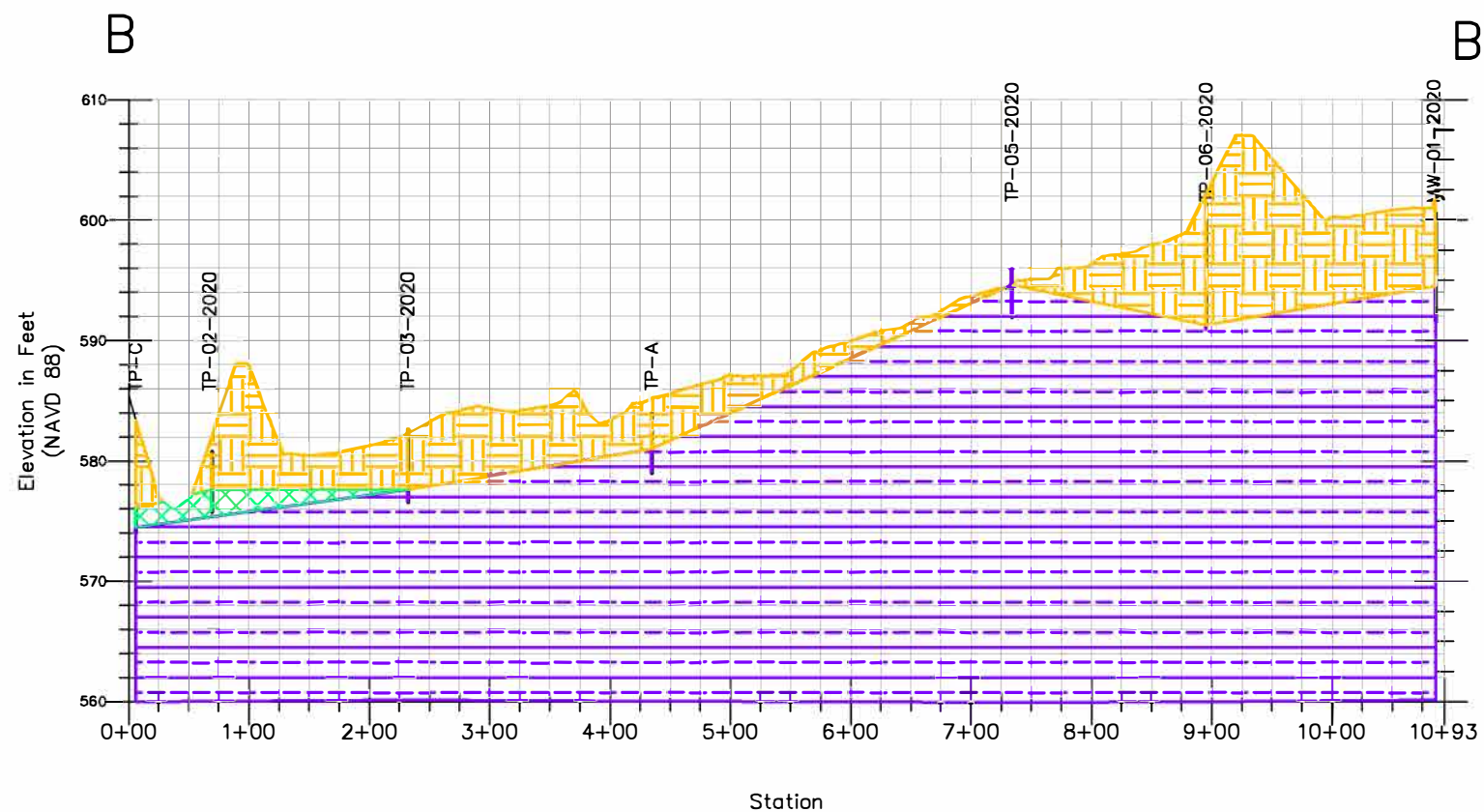
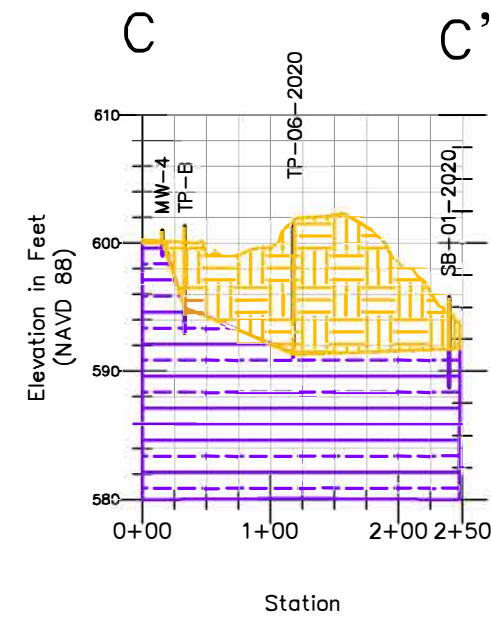
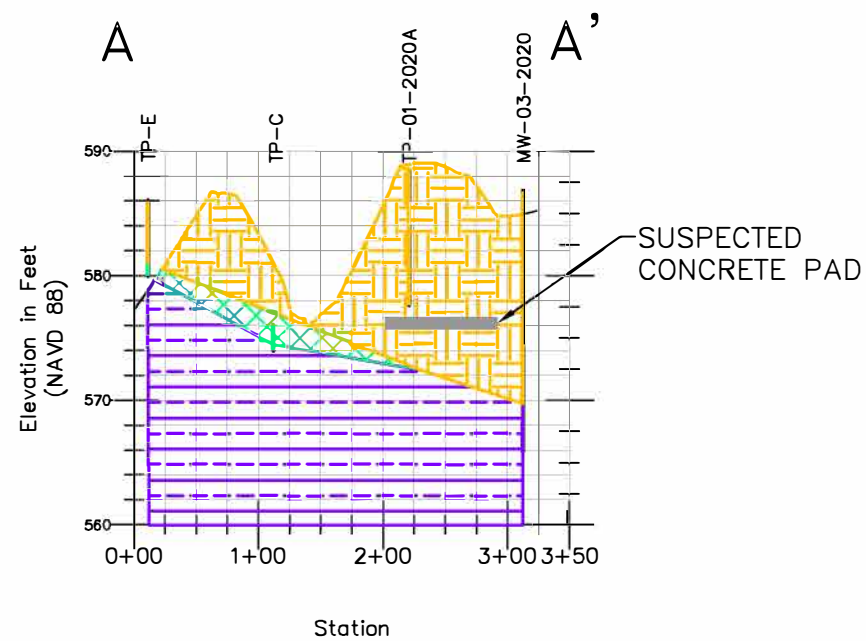
Plot Date: 7/13/2023      Plotted By: CS



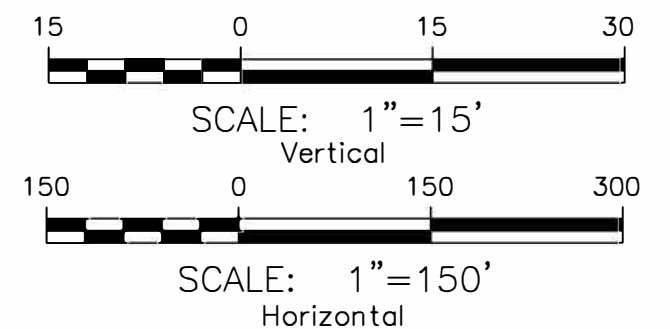
Plot Date: 7/13/2023 Plotted By: J. Domanski







- NOTE:
- EXISTING GRADE FROM SITE SURVEY PERFORMED JANUARY 2020.
  - DISCREPANCIES IN GROUND SURFACE AT 2020/2021 FOCUSED RI INVESTIGATION (LOCATIONS ENDING IN -2020 OR -2021) ARE DUE TO LOCATIONS BEING OFFSET SLIGHTLY FROM THE TRANSECT. DISCREPANCIES IN GROUND SURFACE AT HISTORICAL LOCATIONS ARE DUE TO LOCATIONS BEING OFFSET FROM THE TRANSECT, AS WELL AS POTENTIAL INACCURACIES IN HISTORICAL SURVEY DATA.
  - SUSPECTED CONCRETE SLAB IN A-A'. TOP OF SUSPECTED CONCRETE SLAB CONCRETE IS SHOWN AT DEPTH OF REFUSAL IN TP-01-2020. SLAB DIMENSIONS ARE APPROXIMATED FROM (1967 DRAWING) AND DO NOT NECESSARILY REPRESENT ACTUAL SLAB LOCATION AND DIMENSIONS.



Vertical Exaggeration 10X

Figure 8

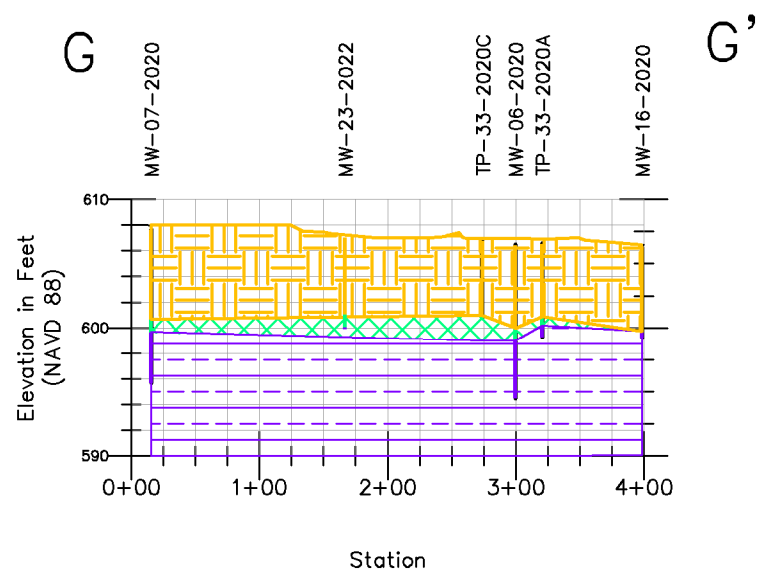
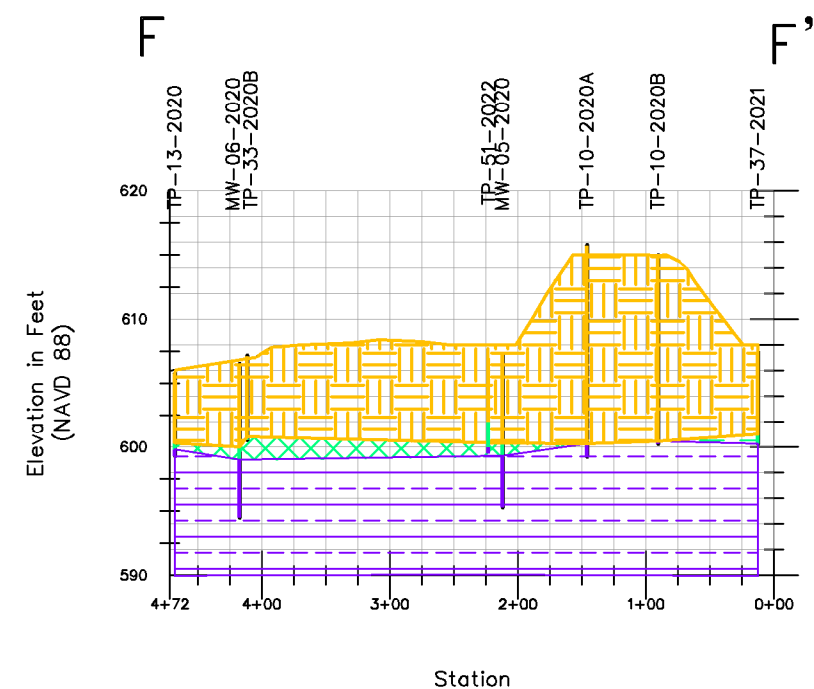
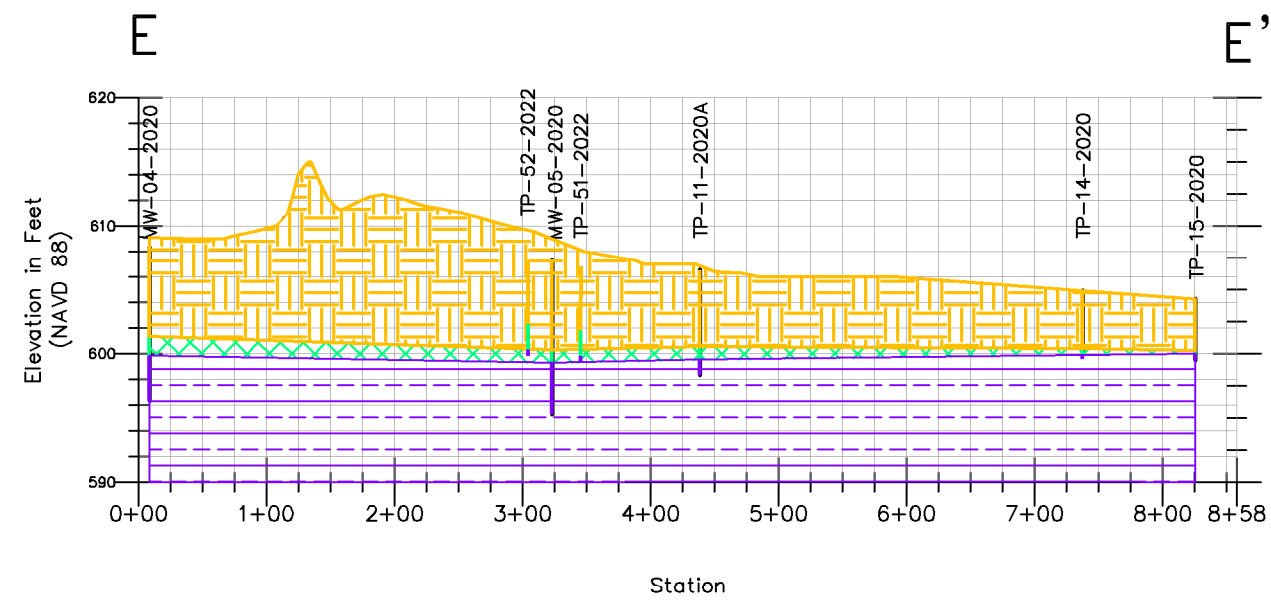
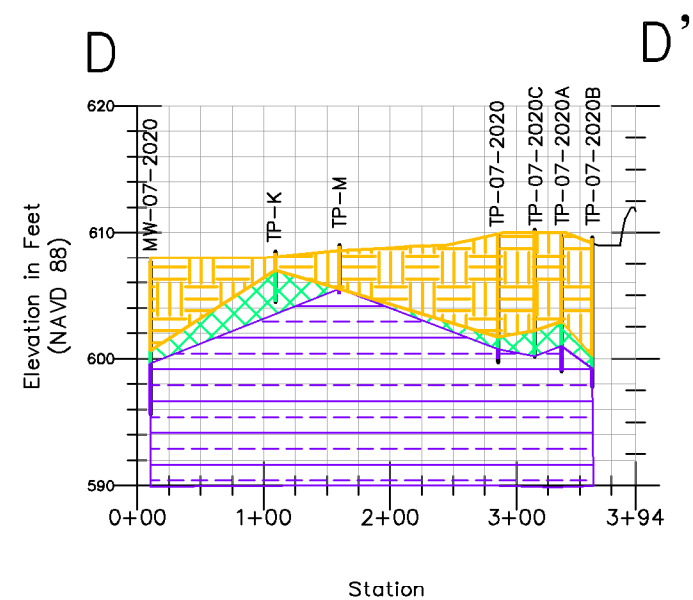
**Honeywell**

Tonawanda Coke  
Sites 109 and 110  
Tonawanda, New York

Site 109 Geologic Cross Sections

**PARSONS**

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 \* 315-451-9560



**NOTE:**

1. EXISTING GRADE FROM SITE SURVEY PERFORMED JANUARY 2020.
2. DISCREPANCIES IN GROUND SURFACE AT 2020/2021 FOCUSED RI INVESTIGATION (LOCATIONS ENDING IN -2020 OR -2021) ARE DUE TO LOCATIONS BEING OFFSET SLIGHTLY FROM THE TRANSECT. DISCREPANCIES IN GROUND SURFACE AT HISTORICAL LOCATIONS ARE DUE TO LOCATIONS BEING OFFSET FROM THE TRANSECT, AS WELL AS POTENTIAL INACCURACIES IN HISTORICAL SURVEY DATA.

**LEGEND:**

SD-05-2020

SAMPLE ID

EXISTING GRADE (NOTE 1)



FILL



GRAY CLAY



REDDISH BROWN CLAY



SCALE: 1"=15'  
Vertical



SCALE: 1"=150'  
Horizontal

Vertical Exaggeration 10X

**Figure 9**

**Honeywell**

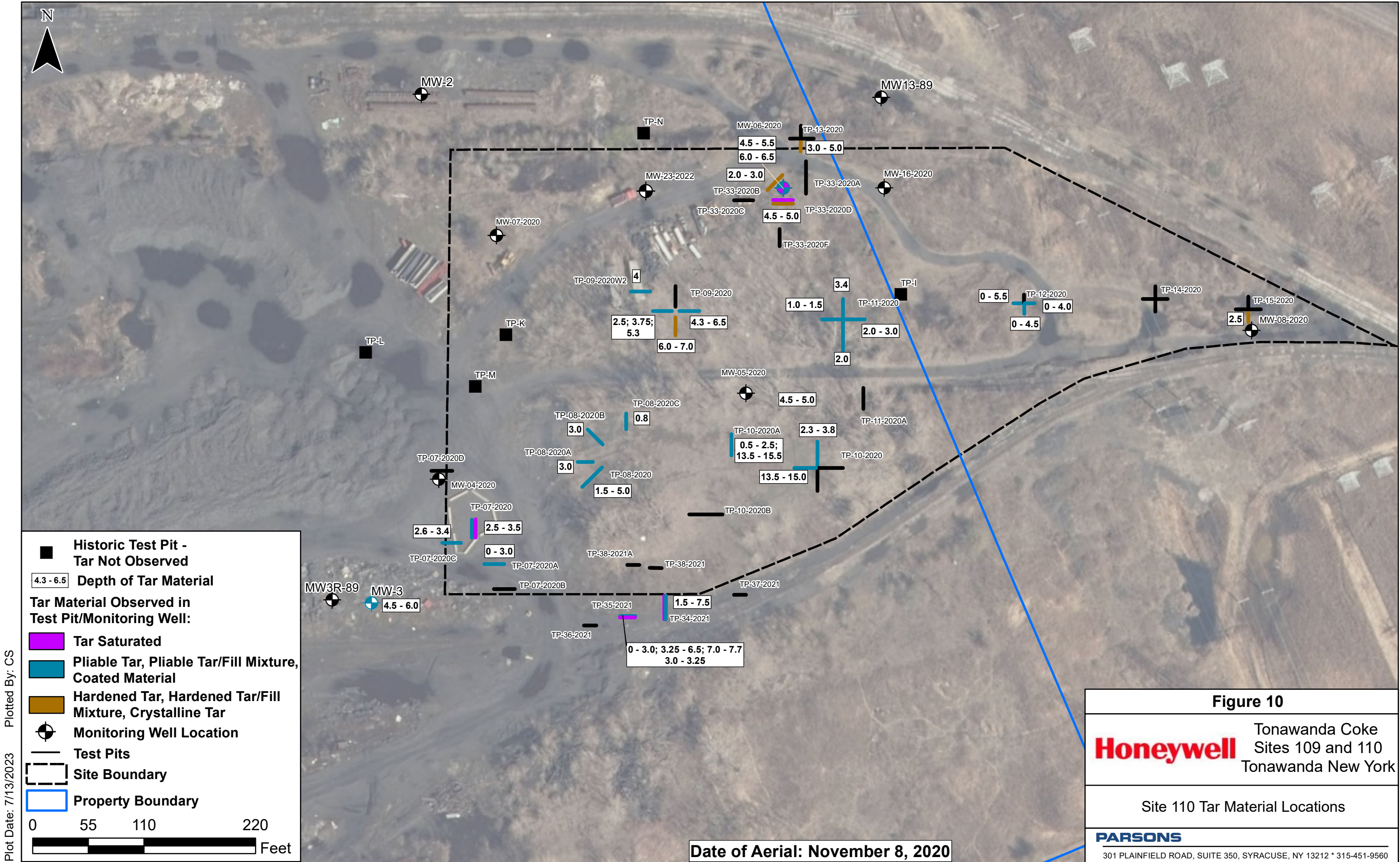
Tonawanda Coke  
Sites 109 and 110  
Tonawanda, New York

Site 110 Geologic Cross Sections

**PARSONS**

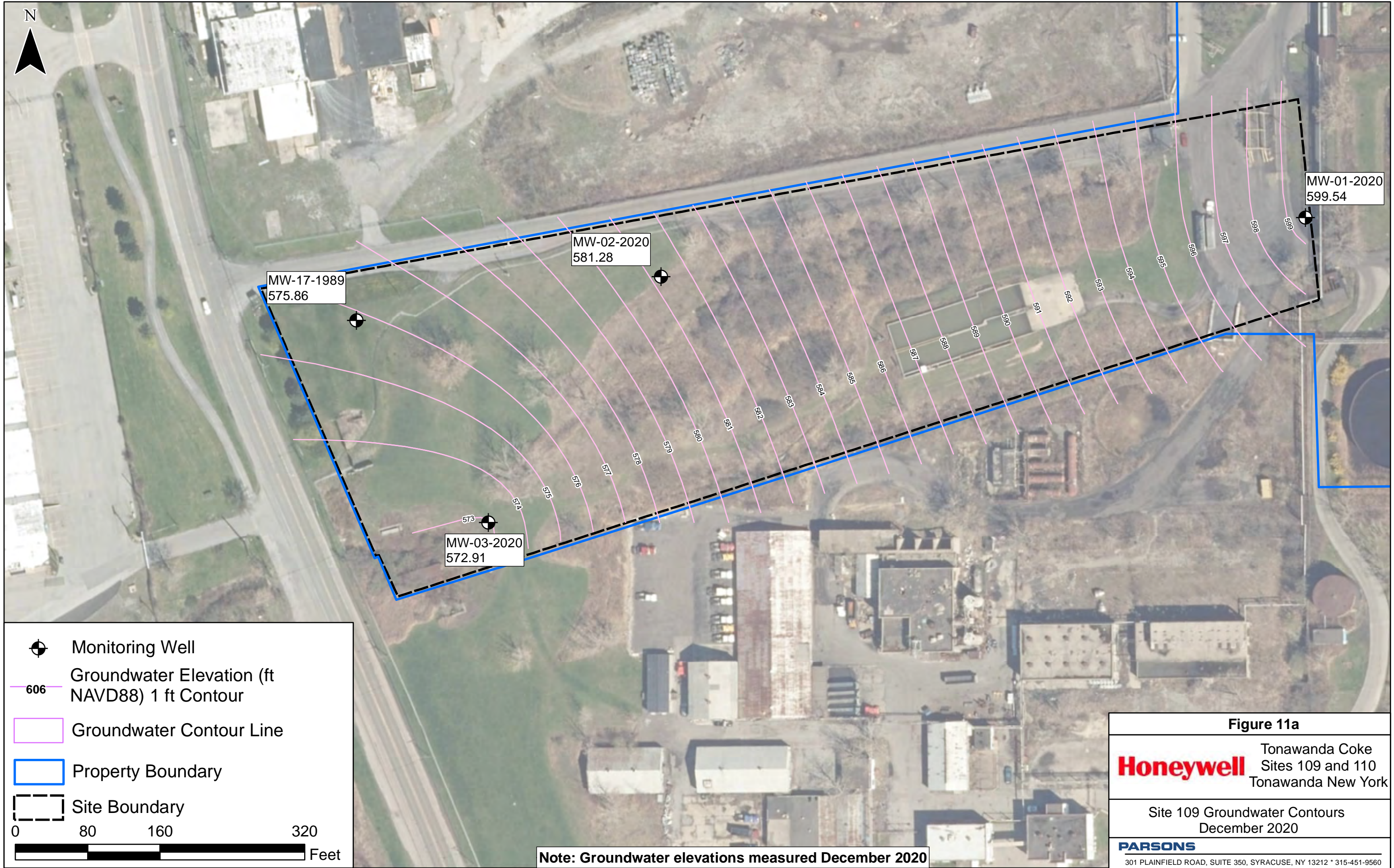
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 \* 315-451-9560





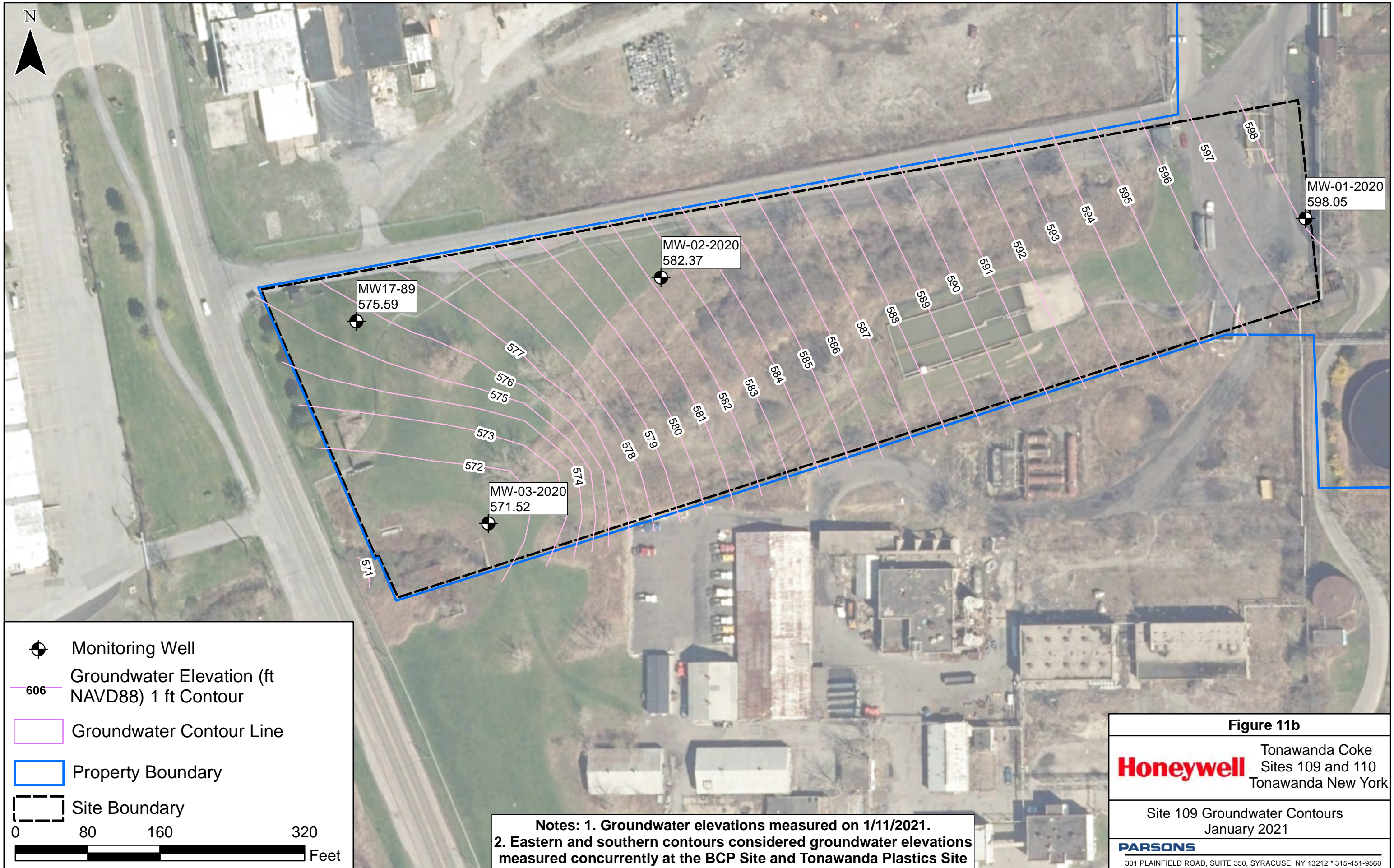
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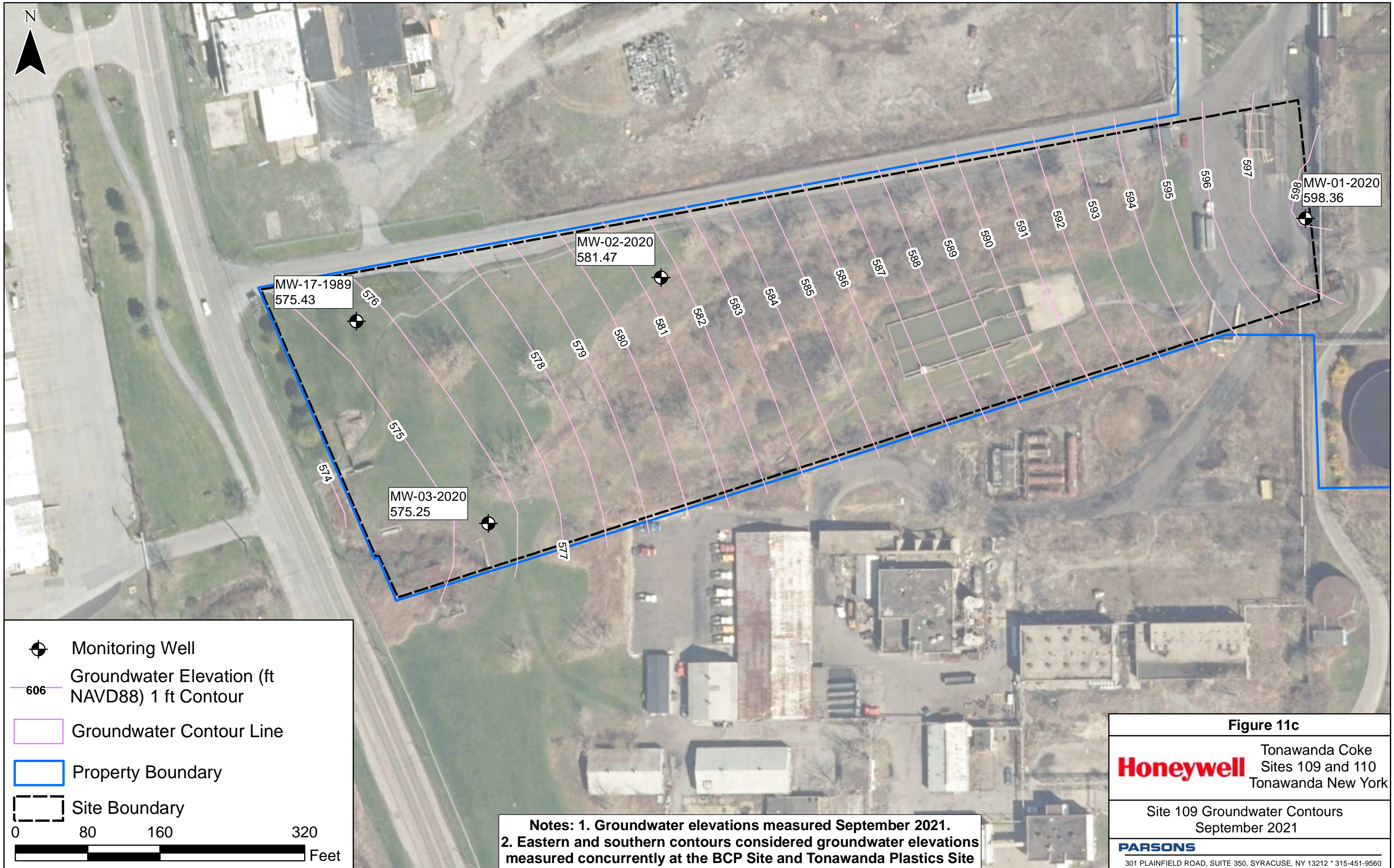


Plot Date: 2/14/2023 Plotted By: CS



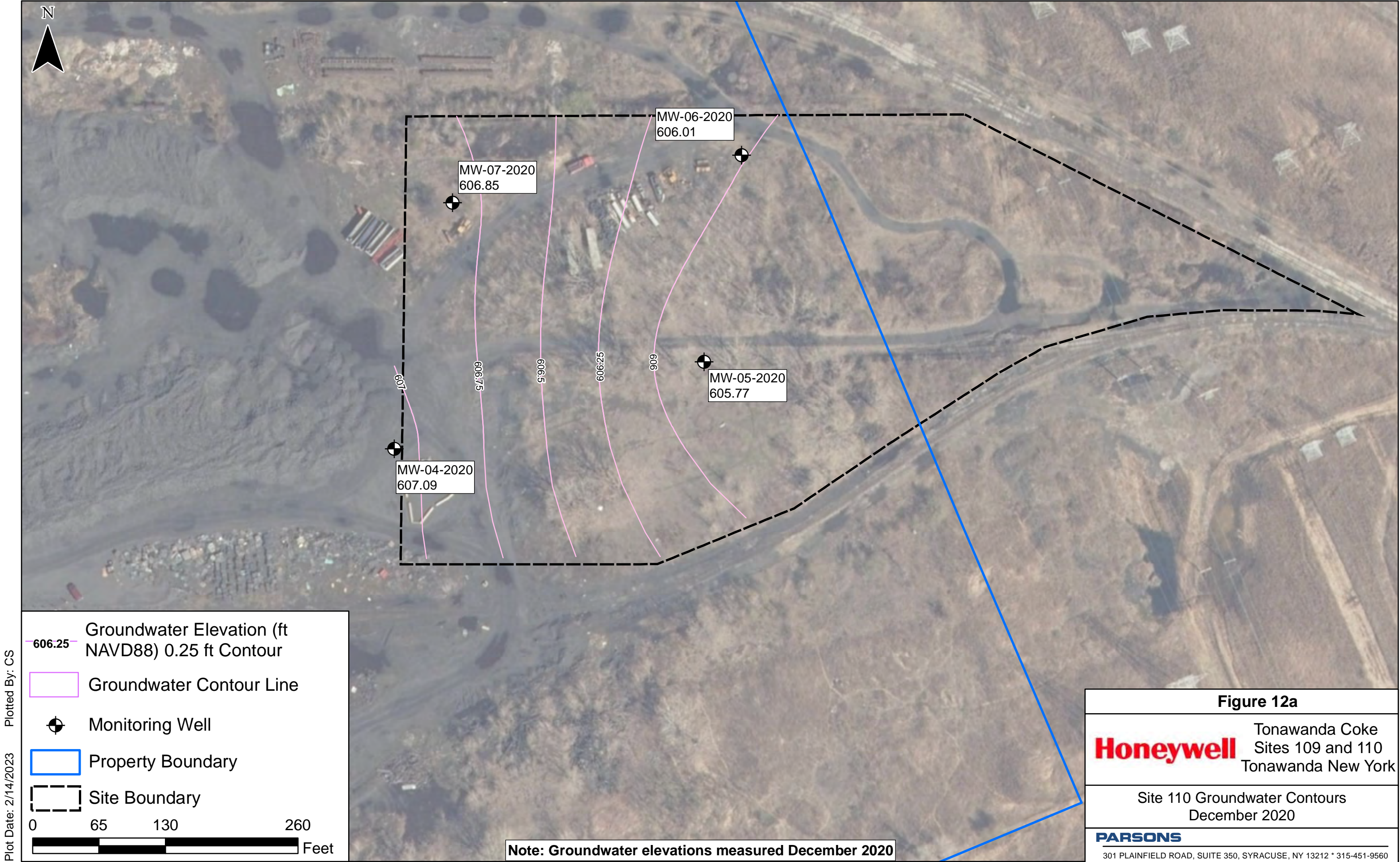




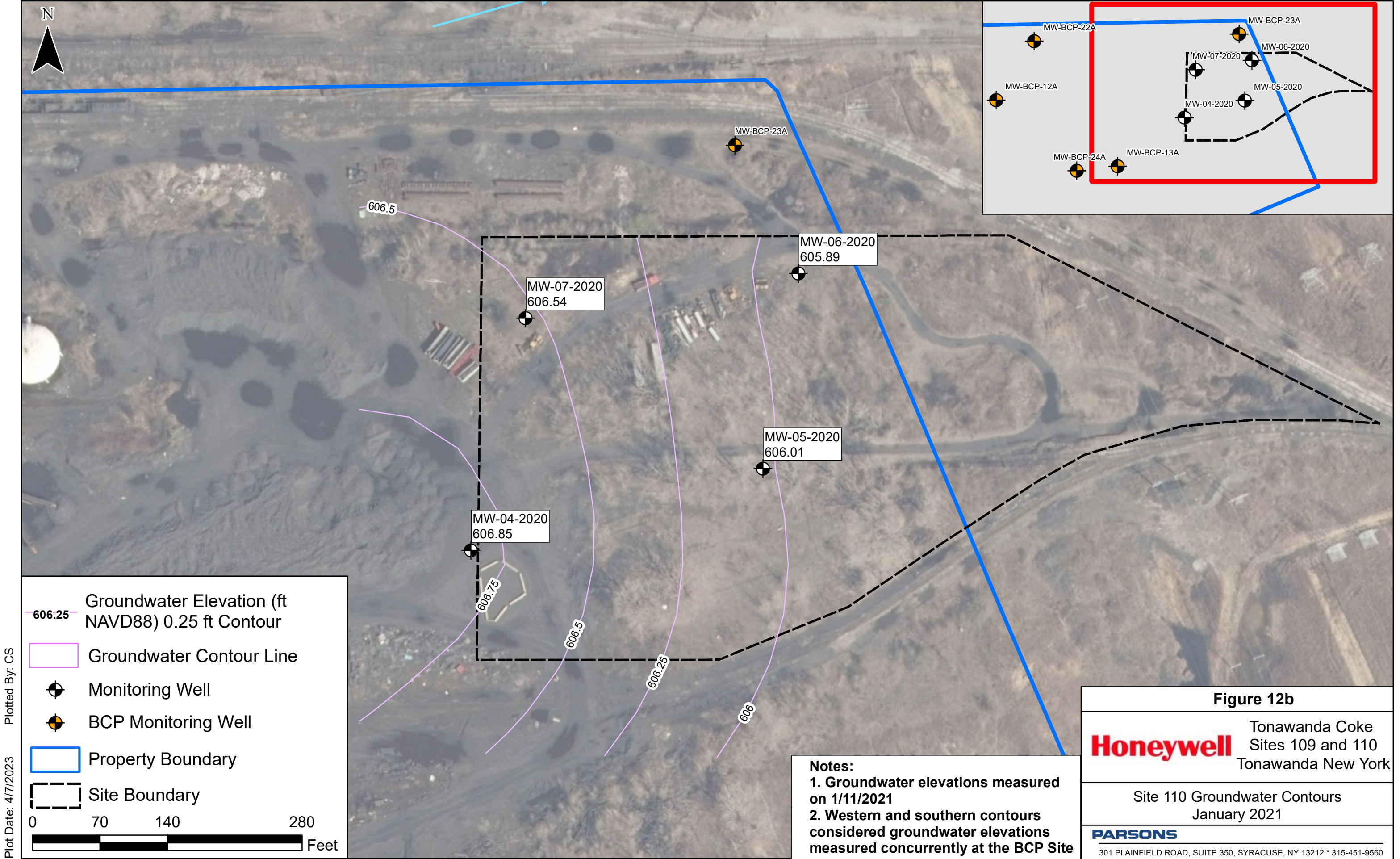


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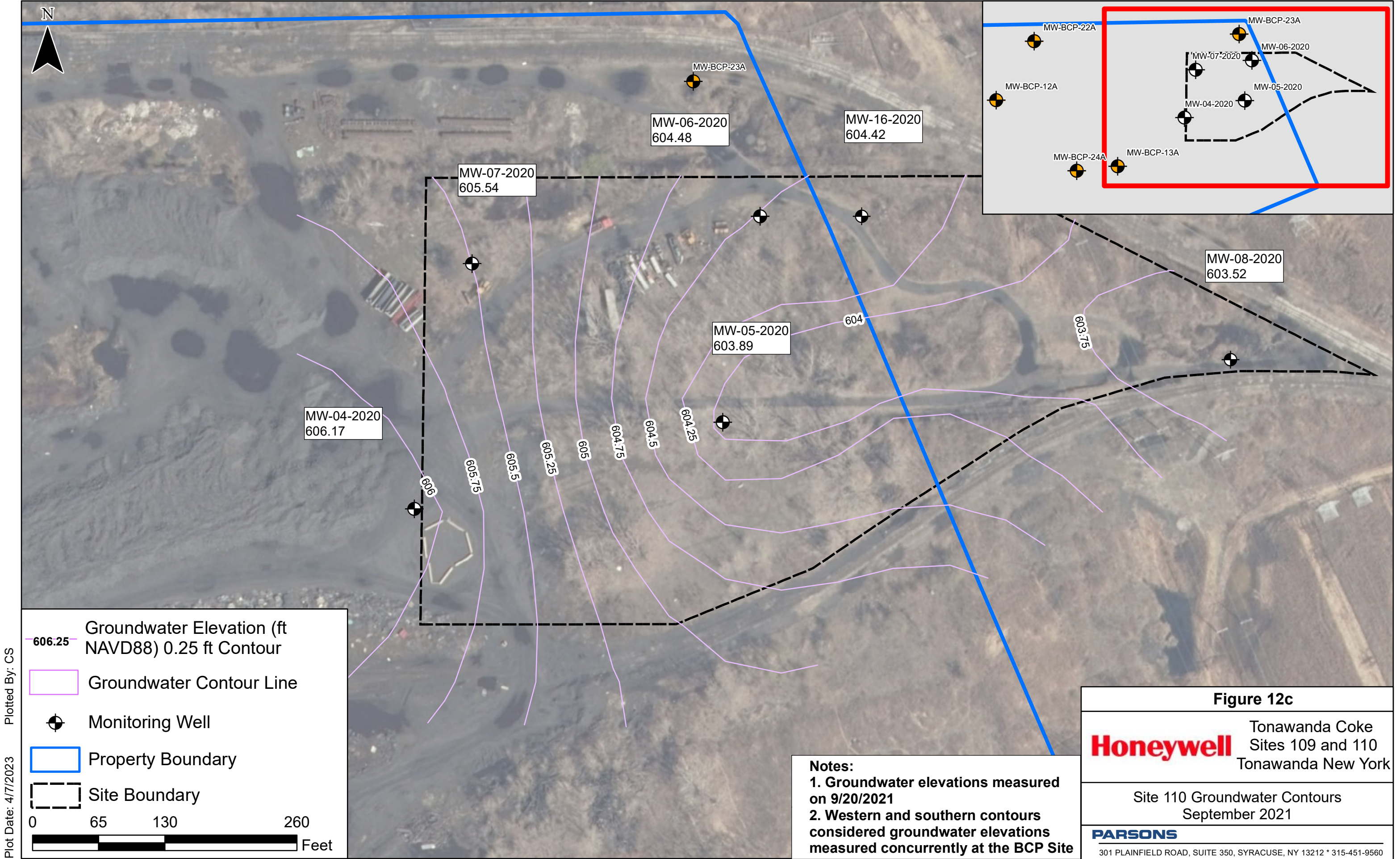




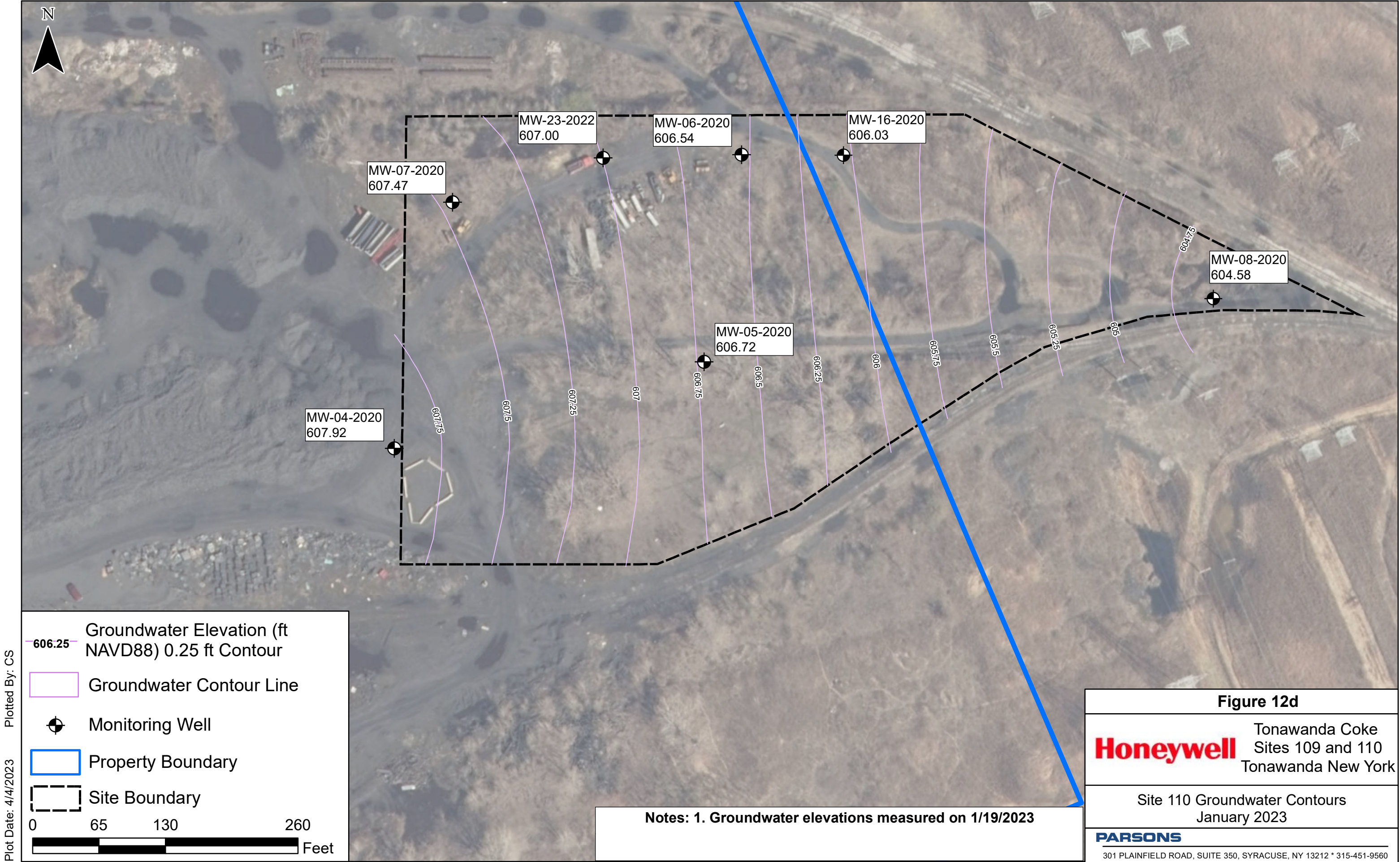


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Plotted By: CS





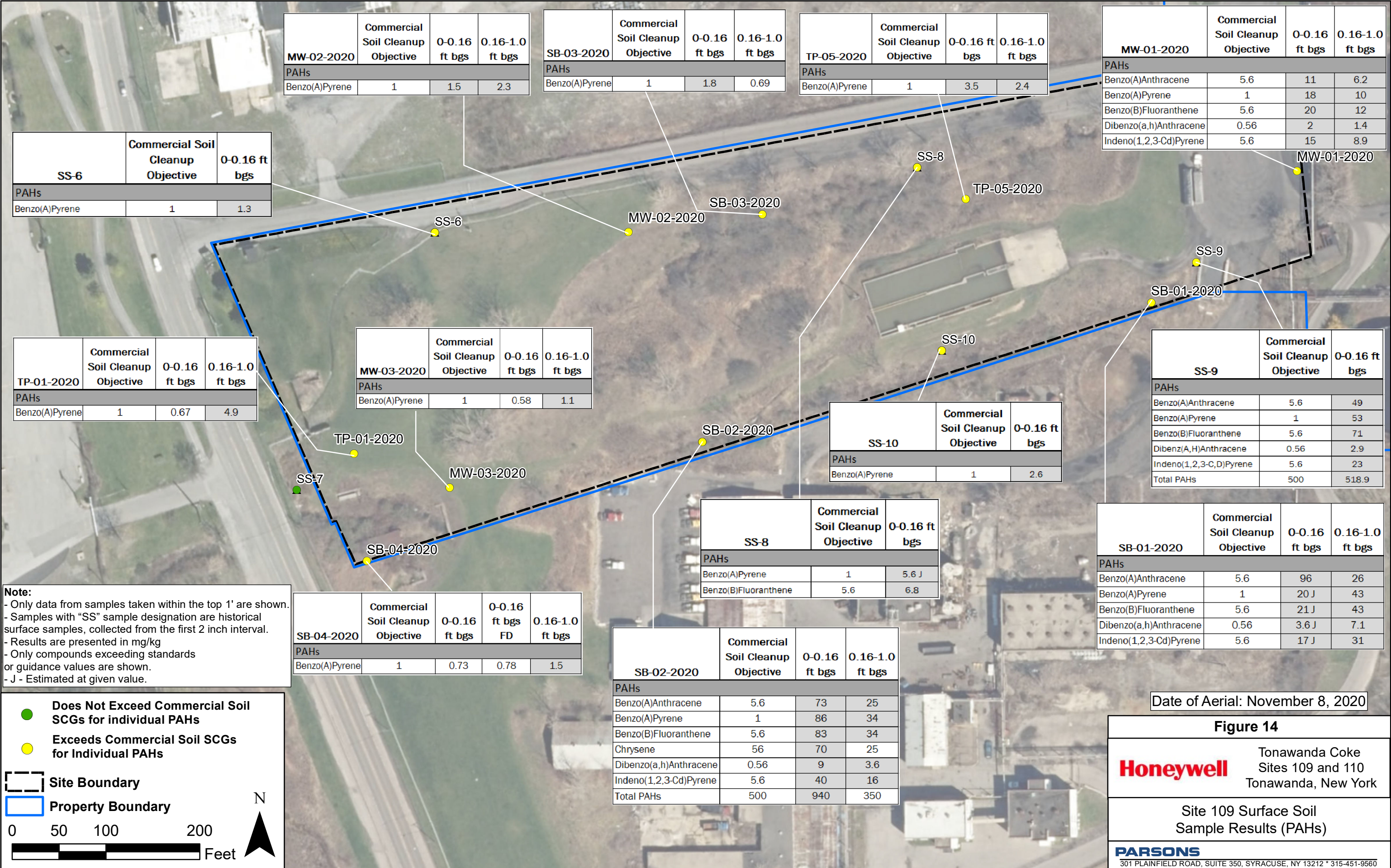










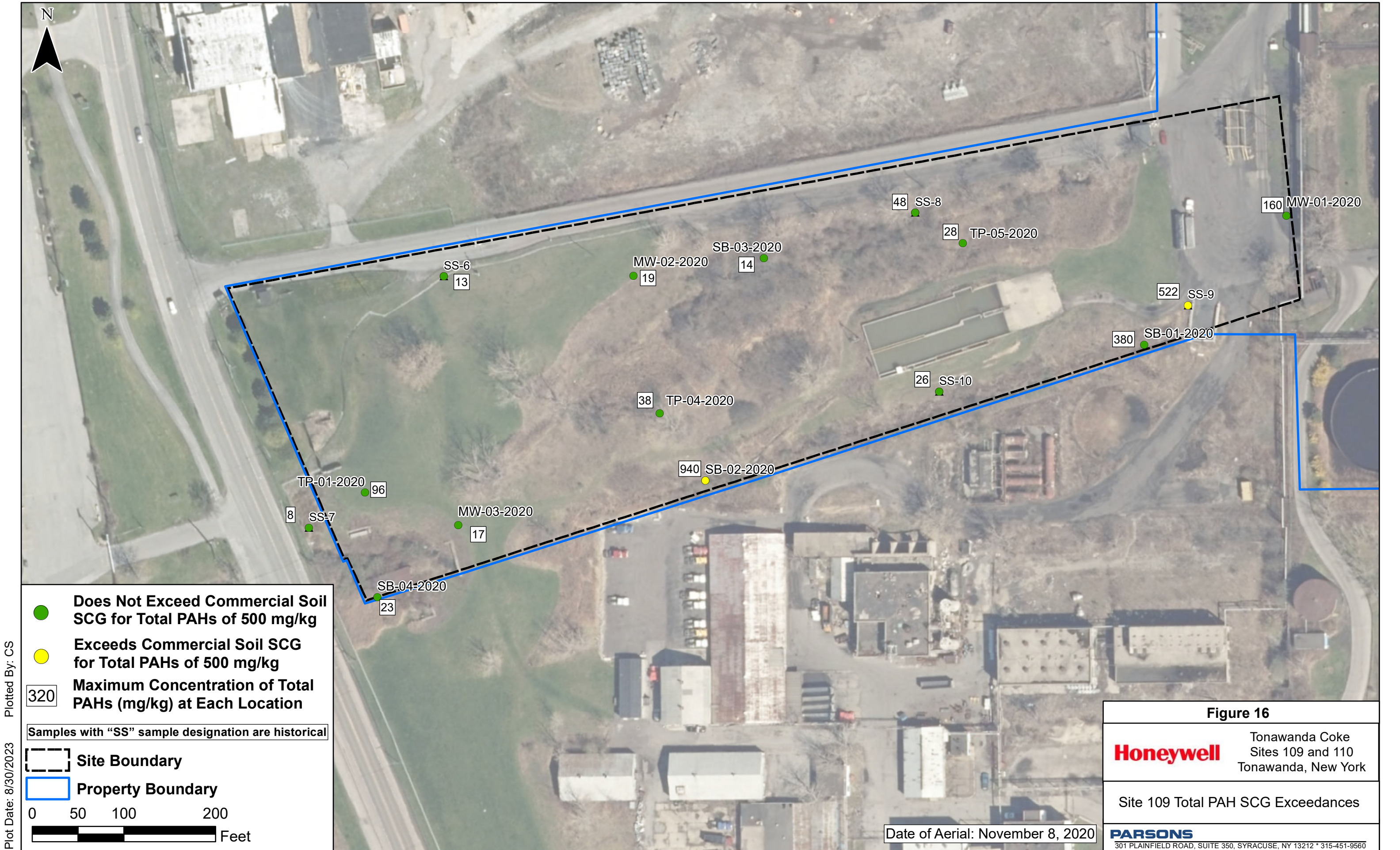




Plot Date: 10/19/2023 Plotted By: J. Domanski







Plot Date: 8/30/2023 Plotted By: CS

Does Not Exceed Commercial Soil SCG for Total PAHs of 500 mg/kg

Exceeds Commercial Soil SCG for Total PAHs of 500 mg/kg

320

Maximum Concentration of Total PAHs (mg/kg) at Each Location

--- Site Boundary

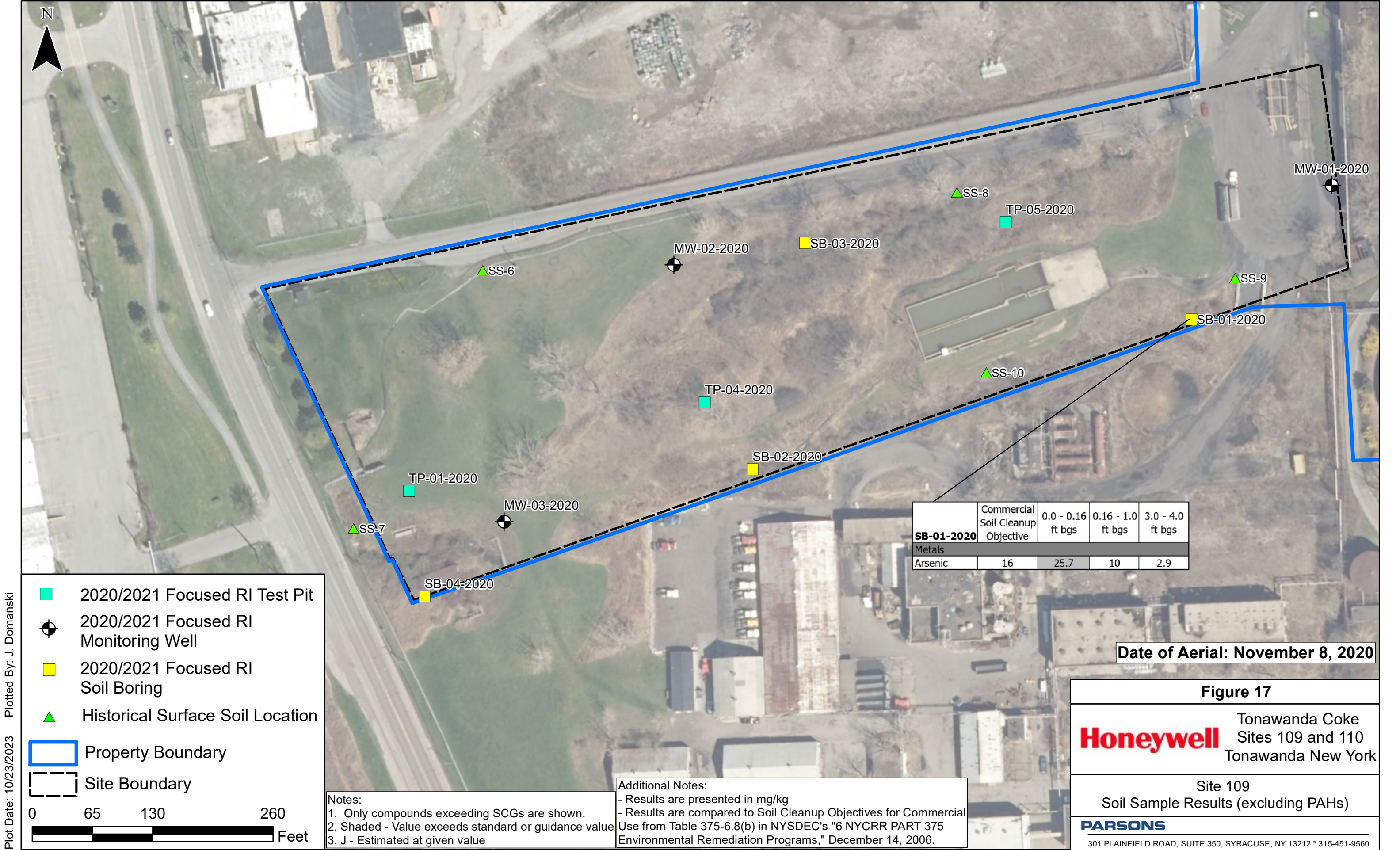
Property Boundary

0 50 100 200

Feet

|                  |   |
|------------------|---|
| Figure 16        |   |
| <b>Honeywell</b> | Tonawanda Coke Sites 109 and 110<br>Tonawanda, New York           |
|                  | Site 109 Total PAH SCG Exceedances                                |
| <b>PARSONS</b>   | 301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560 |





Plot Date: 10/23/2023 Plotted By: J. Domanski

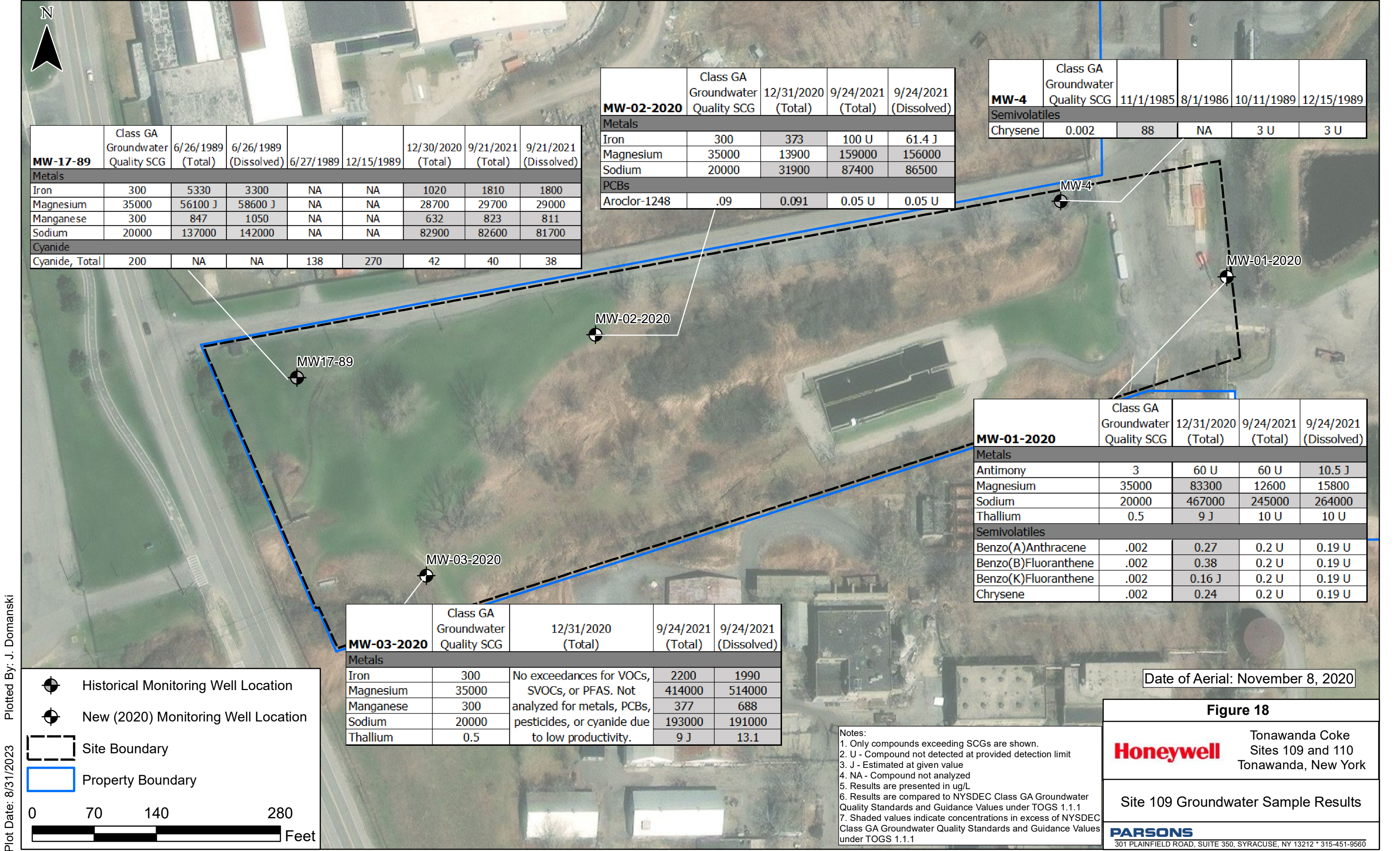
**Figure 17**  

Tonawanda Coke  
Sites 109 and 110  
Tonawanda New York

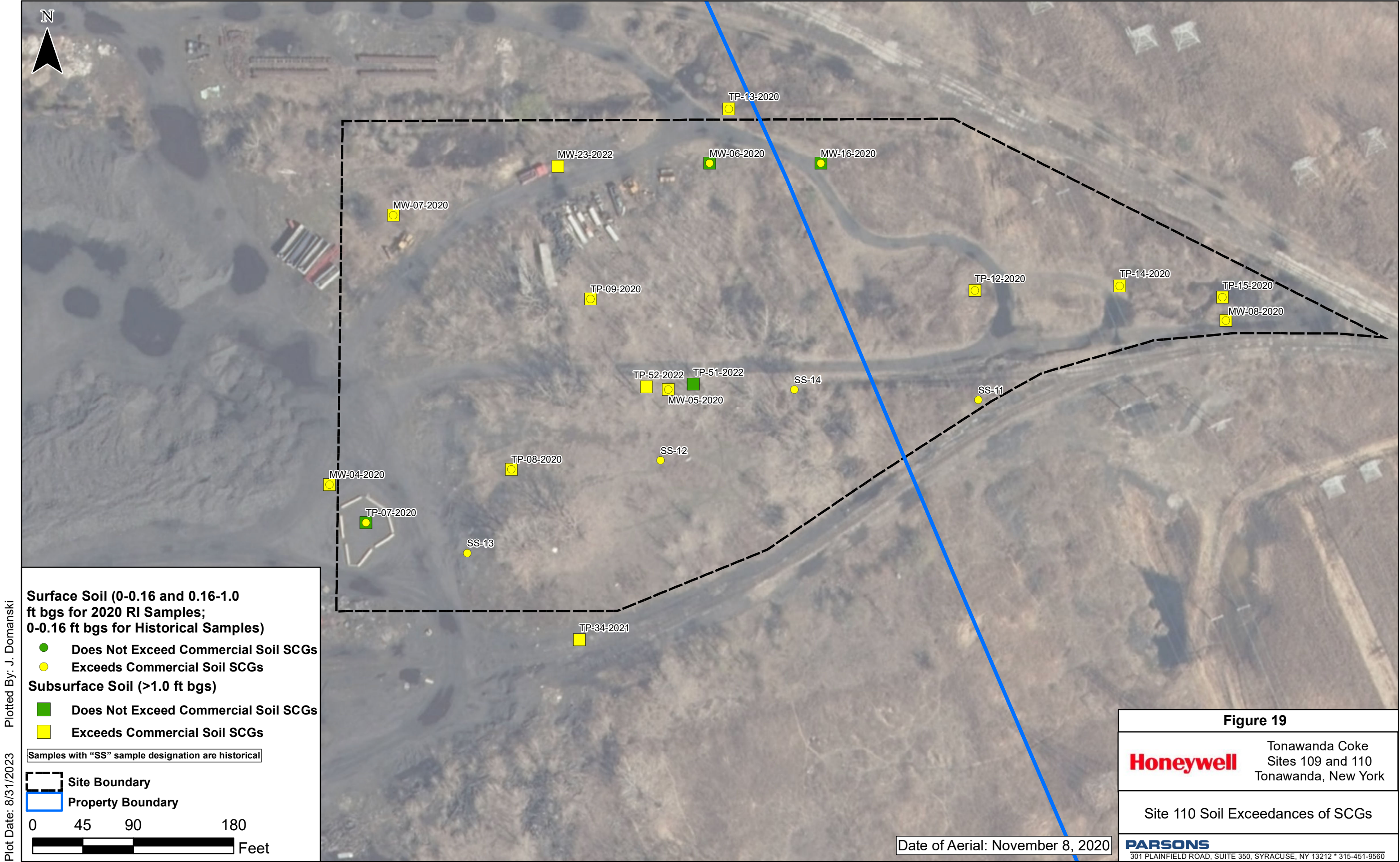
Site 109  
Soil Sample Results (excluding PAHs)

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 \* 315-451-9560

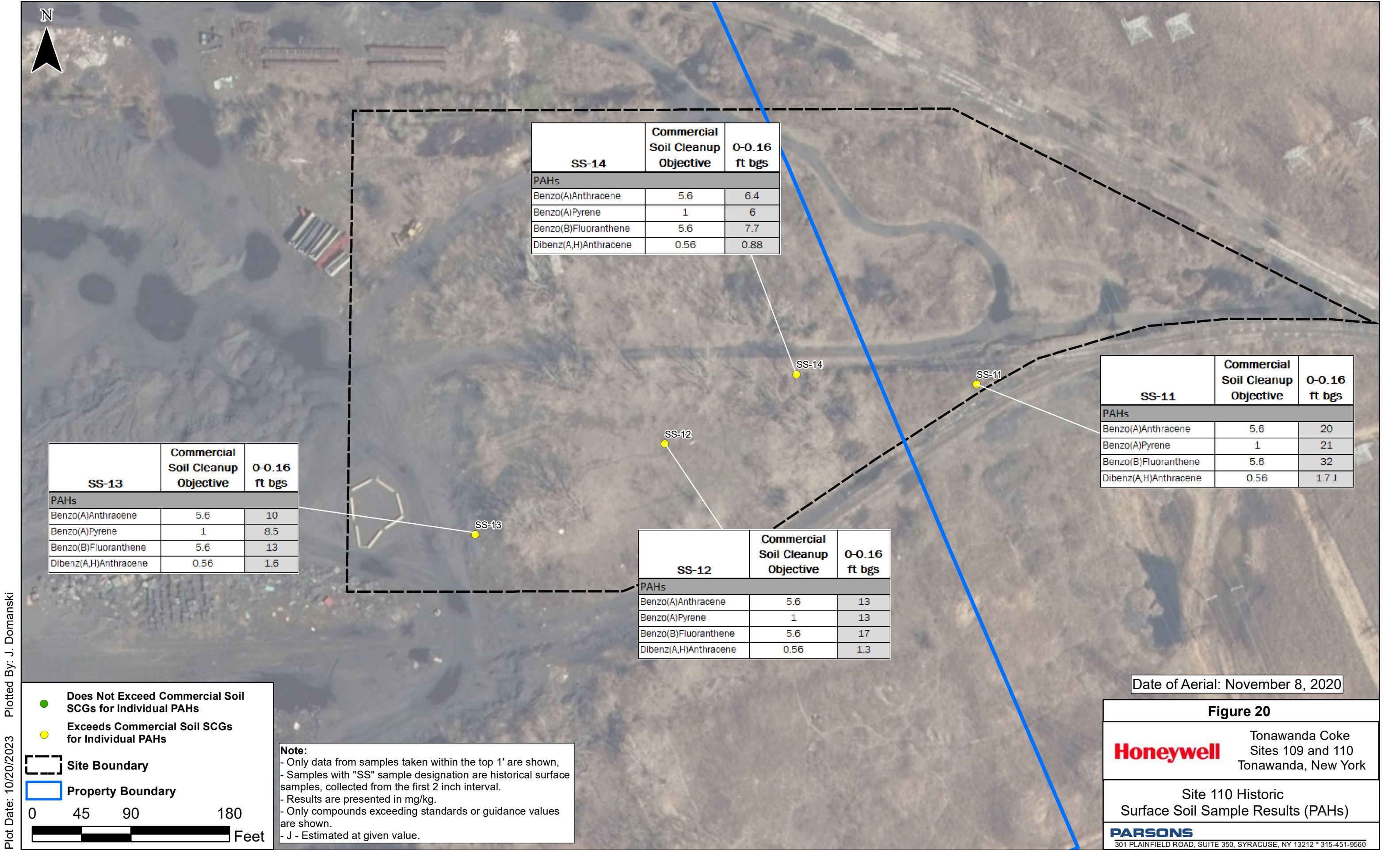












| SS-14                 | Commercial Soil Cleanup Objective | 0-0.16 ft bgs |
|-----------------------|-----------------------------------|---------------|
| PAHs                  |                                   |               |
| Benzo(A)Anthracene    | 5.6                               | 6.4           |
| Benzo(A)Pyrene        | 1                                 | 6             |
| Benzo(B)Fluoranthene  | 5.6                               | 7.7           |
| Dibenz(A,H)Anthracene | 0.56                              | 0.88          |

| SS-11                 | Commercial Soil Cleanup Objective | 0-0.16 ft bgs |
|-----------------------|-----------------------------------|---------------|
| PAHs                  |                                   |               |
| Benzo(A)Anthracene    | 5.6                               | 20            |
| Benzo(A)Pyrene        | 1                                 | 21            |
| Benzo(B)Fluoranthene  | 5.6                               | 32            |
| Dibenz(A,H)Anthracene | 0.56                              | 1.7 J         |

| SS-13                 | Commercial Soil Cleanup Objective | 0-0.16 ft bgs |
|-----------------------|-----------------------------------|---------------|
| PAHs                  |                                   |               |
| Benzo(A)Anthracene    | 5.6                               | 10            |
| Benzo(A)Pyrene        | 1                                 | 8.5           |
| Benzo(B)Fluoranthene  | 5.6                               | 13            |
| Dibenz(A,H)Anthracene | 0.56                              | 1.6           |

| SS-12                 | Commercial Soil Cleanup Objective | 0-0.16 ft bgs |
|-----------------------|-----------------------------------|---------------|
| PAHs                  |                                   |               |
| Benzo(A)Anthracene    | 5.6                               | 13            |
| Benzo(A)Pyrene        | 1                                 | 13            |
| Benzo(B)Fluoranthene  | 5.6                               | 17            |
| Dibenz(A,H)Anthracene | 0.56                              | 1.3           |

Plot Date: 10/20/2023 Plotted By: J. Domanski

● Does Not Exceed Commercial Soil SCGs for Individual PAHs

● Exceeds Commercial Soil SCGs for Individual PAHs

Site Boundary

Property Boundary

04590180

Feet

**Note:**  
- Only data from samples taken within the top 1' are shown,  
- Samples with "SS" sample designation are historical surface samples, collected from the first 2 inch interval.  
- Results are presented in mg/kg.  
- Only compounds exceeding standards or guidance values are shown.  
- J - Estimated at given value.

Date of Aerial: November 8, 2020

Figure 20

Honeywell

Tonawanda Coke Sites 109 and 110  
Tonawanda, New York

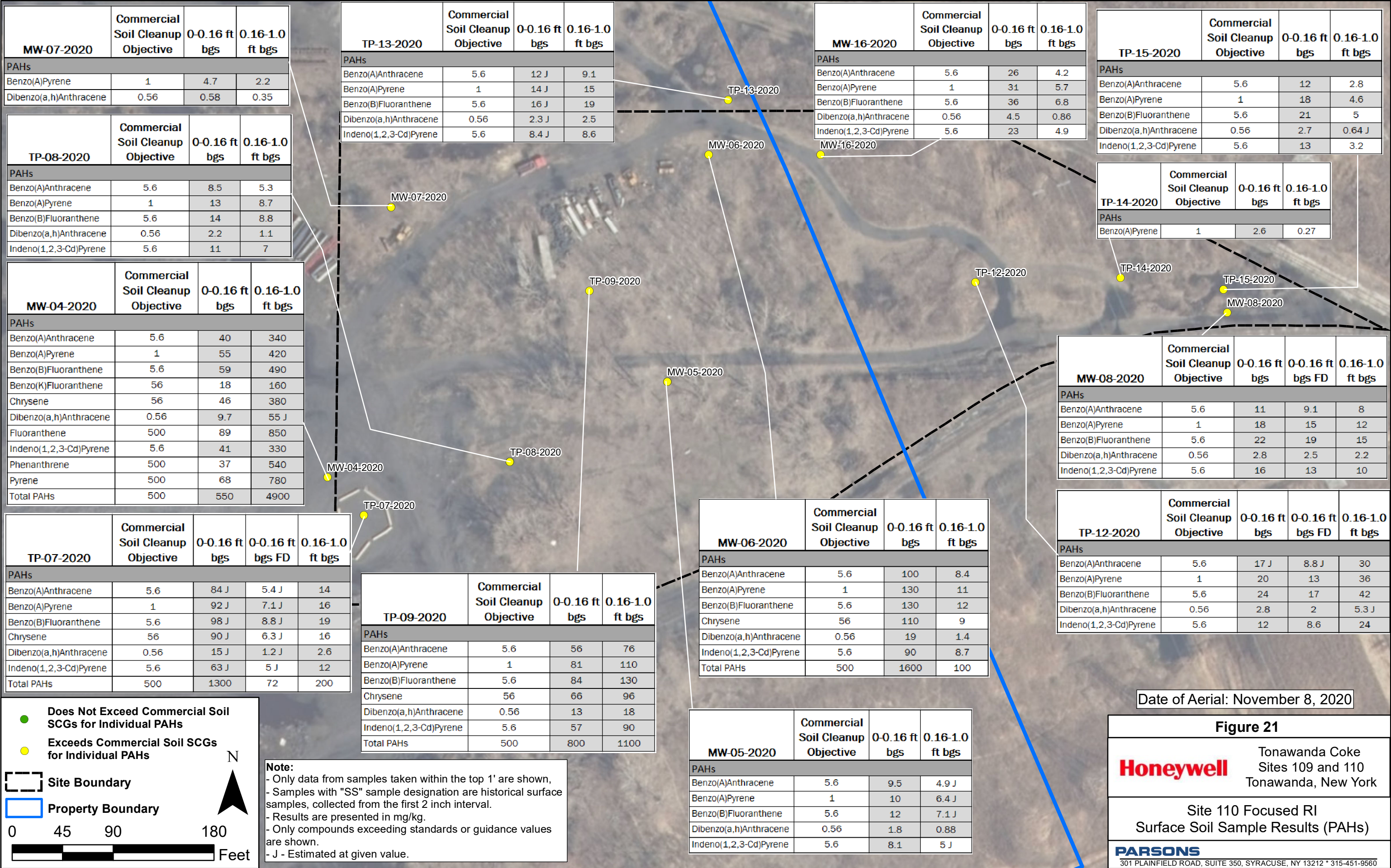
Site 110 Historic Surface Soil Sample Results (PAHs)

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 \* 315-451-9560

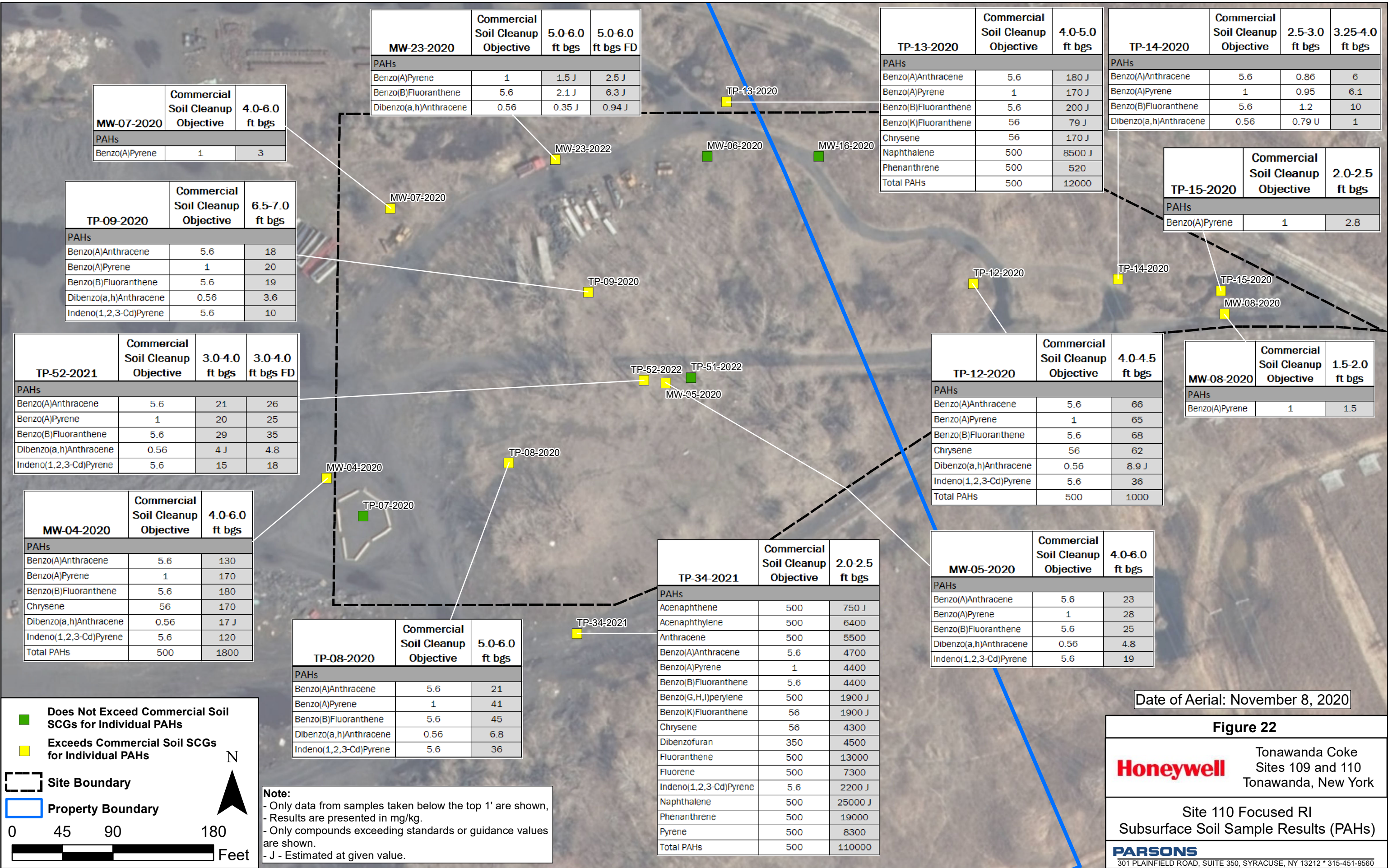
Document Path: \\nysyr04fs01\PrjData\GIS\Hon\_Syracuse\Tonawanda Coke\MXD\Site 109 and 110\Rev03 - RI\Tonawanda Site 110 RI Report Fig 20 Historic Soil PAH\_Rev3.mxd



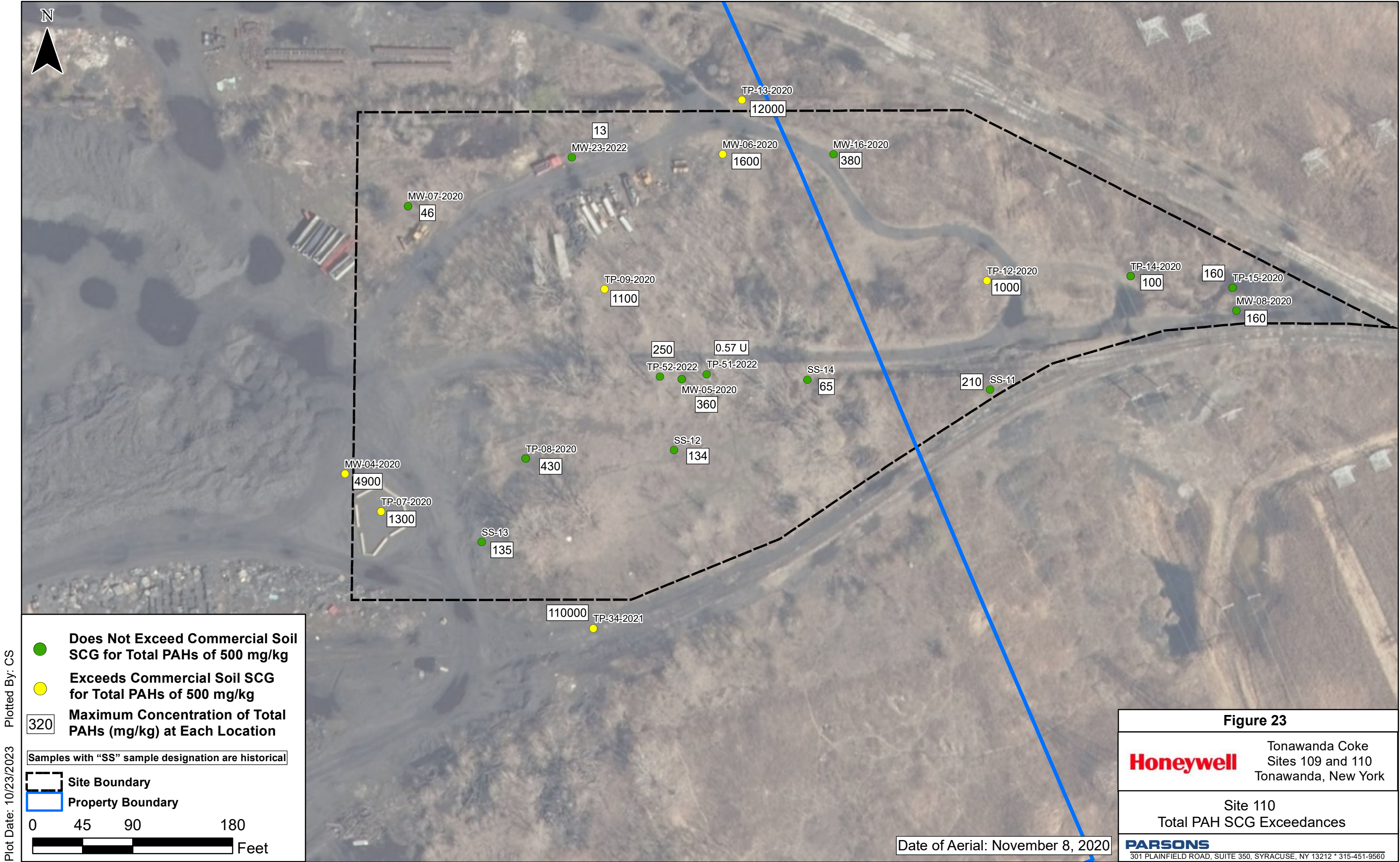




Plot Date: 10/24/2023 Plotted By: J. Domanski



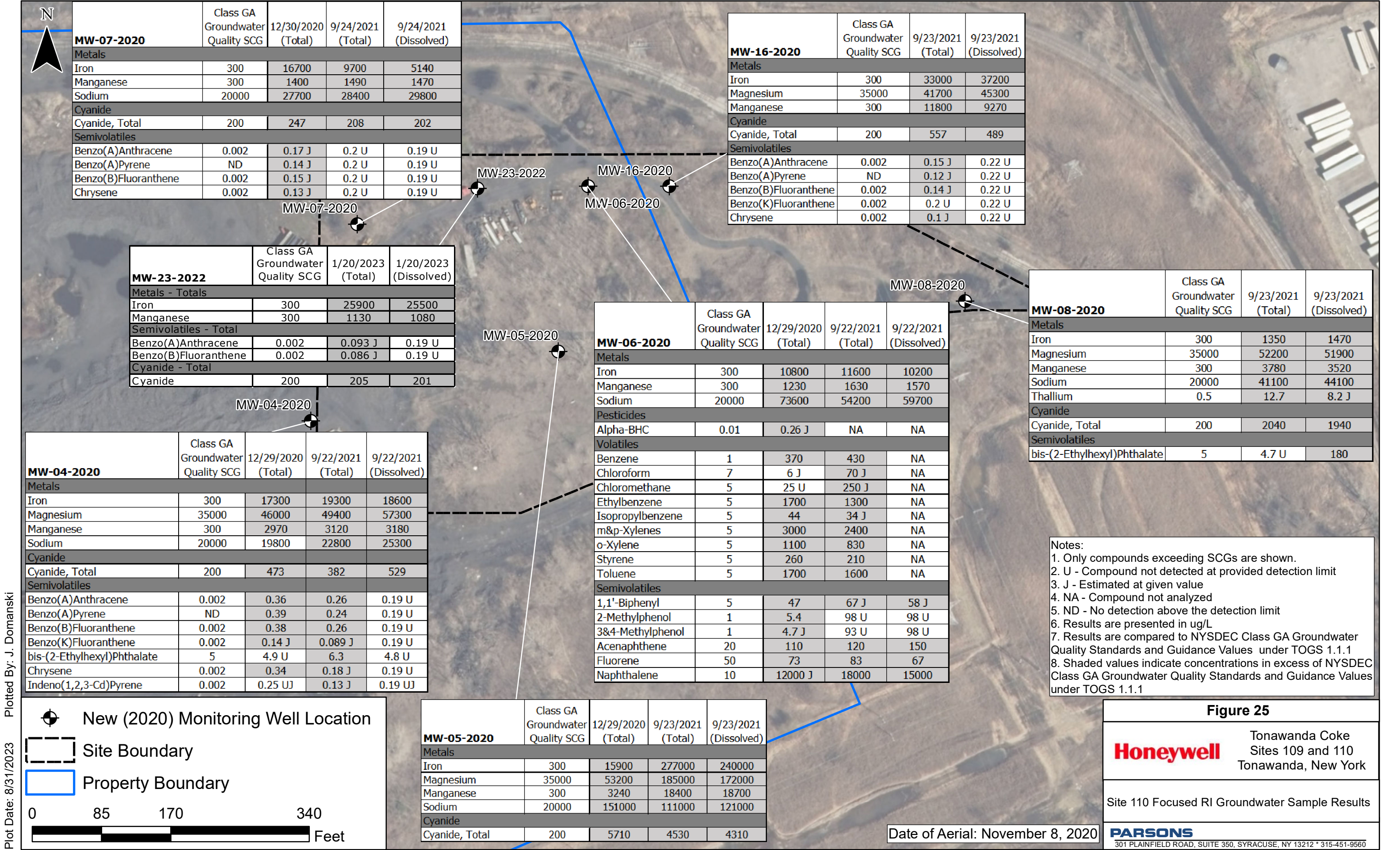




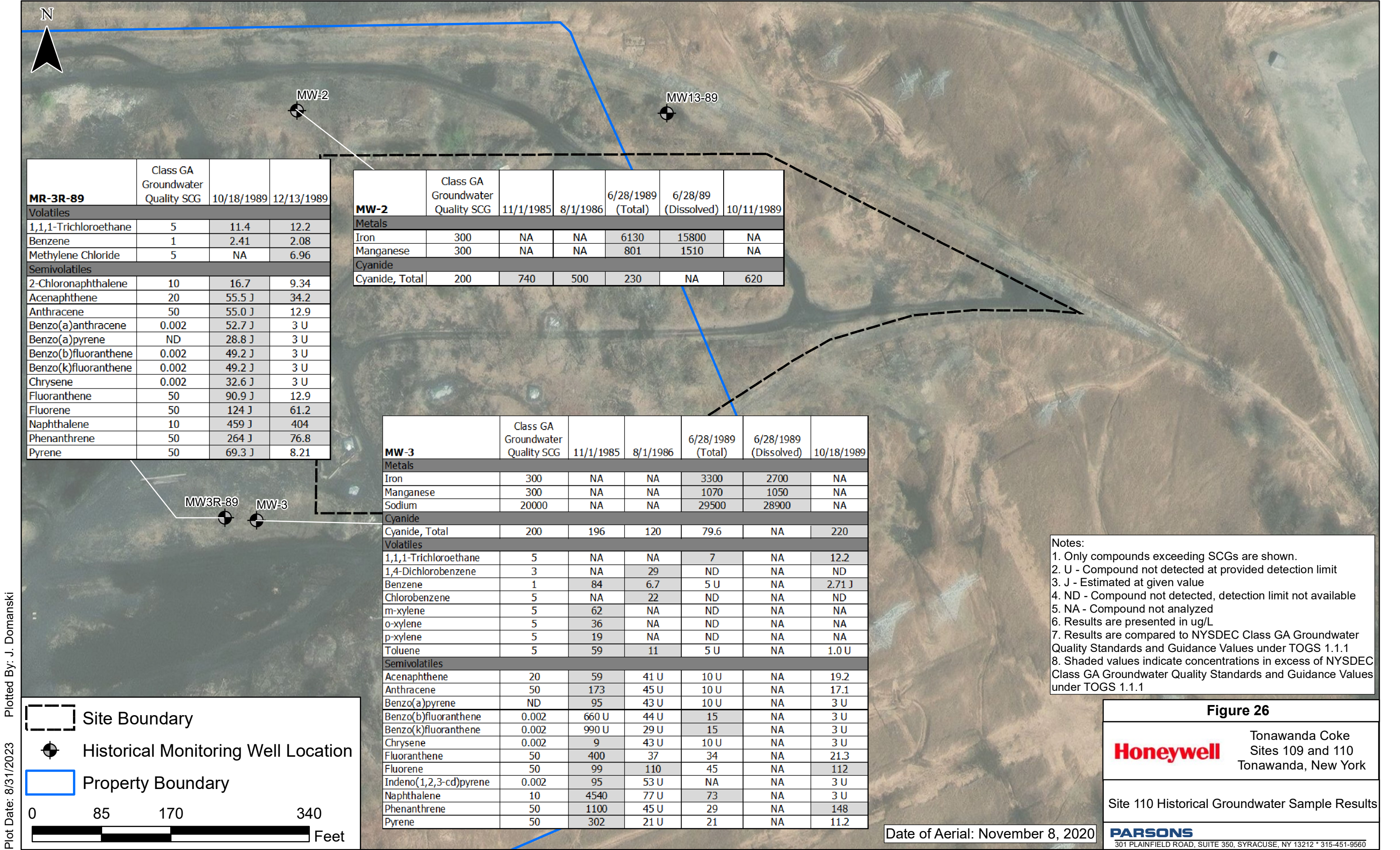




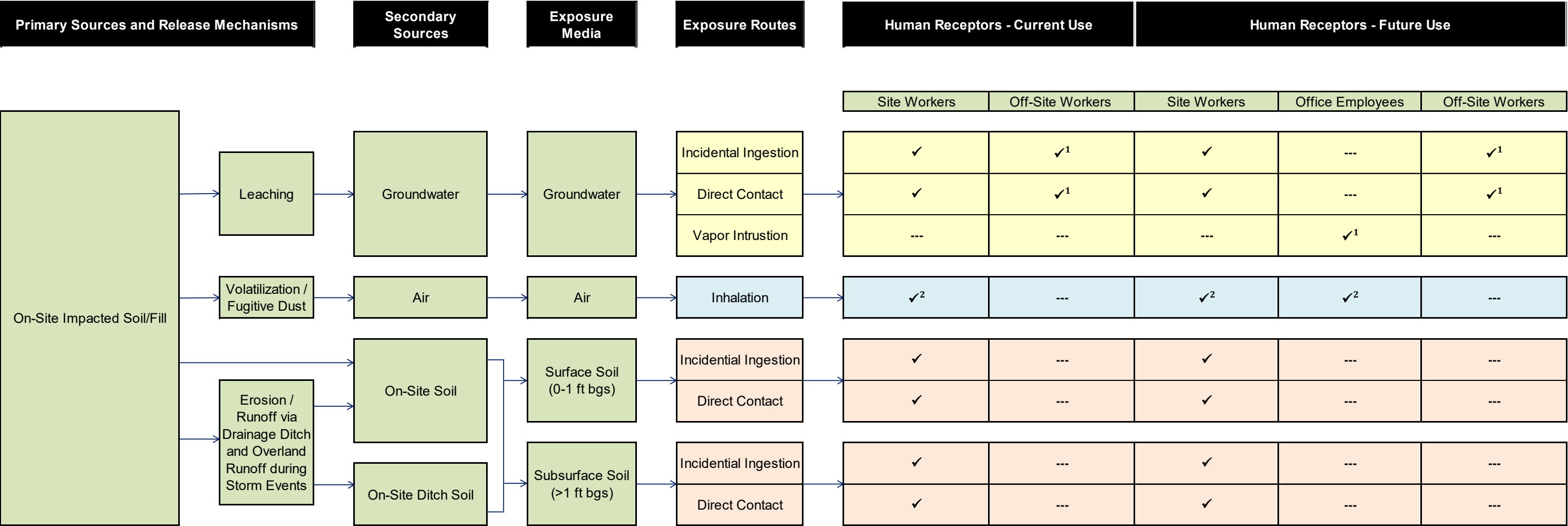












**Notes:**  
bgs - below ground surface  
→ = Direct Pathway  
Groundwater is not currently used at the site or at adjacent offsite areas due to extensive urban development and environmental easements, and is not anticipated to be used in the future. For these reasons, a drinking water pathway was not identified as a current or future exposure pathway.

1 Exposures for off-site workers applicable to Site 110 only  
2 Potential exposures due to volatilization applicable to Site 110 only

✓ = Complete or potentially complete human health exposure pathway  
--- = Exposure pathway not complete for the indicated receptor

Figure 27

Honeywell

Tonawanda Coke Sites 109 and 110  
Tonawanda, New York

Qualitative Human Health Exposure Assessment

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 \* 315-451-9560