CONSTRUCTION COMPLETION REPORT
PCB-IMPACTED SOIL REMOVAL AT FORMER LOCKHEED MARTIN CORPORATION FRENCH ROAD FACILITY, UTICA, NEW YORK

Prepared for:
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Prepared for:
Lockheed Martin Corporation

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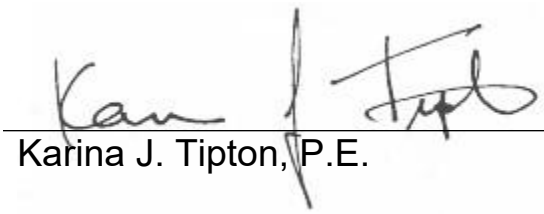

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New York State Professional Engineer Certification:

I, Karina J. Tipton, certify that I am currently a NYS registered professional engineer, I had primary direct responsibility for the implementation of the subject construction program, and I certify that the Remedial Work Plan was implemented and that all construction activities were completed in substantial conformance with the DER-approved Remedial Work Plan.

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ACRONYMS AND ABBREVIATIONS

BC	Brown and Caldwell Associates
bgs	below ground surface
CCR	construction completion report
CHASP	Contractor-Specific Health and Safely Plan
ConMed	ConMed Corporation
CU	Commercial Use
FNPD	Former Northern Perimeter Ditch
GCTS	groundwater collection and treatment system
HASP	*Health and Safety Plan*
JSA	job safety analysis
Lockheed Martin	Lockheed Martin Corporation
mg/kg	milligrams per kilogram
NRC	National Response Corporation
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
Oneida-Herkimer	Oneida-Herkimer Solid Waste Authority
PCB	polychlorinated biphenyl
PID	photoionization detector
ppm	parts per million
PVC	polyvinyl chloride
RAWP	remedial action work plan
SB	*Final Statement of Basis Corrective Measures Selection*
SCO	Soil Cleanup Objective
sf	square foot/feet
SPDES	State Pollutant Discharge Elimination System
TCLP	toxicity characteristic leaching procedure
TWA	time-weighted average

ug/kg	micrograms per kilogram
VOC	volatile organic compound
Work Plan	*Revised Work Plan for Excavation Initial Design Investigation*

GLOSSARY

chemical(s) of concern (COC)—Chemicals identified through a baseline risk assessment that might potentially cause unacceptable (by regulatory definition) adverse effects to human health and/or ecological receptors.

cleanup—Actions to address a release or threatened release of a hazardous substance that could affect humans and/or the environment. This term is sometimes used interchangeably with the terms remedial action, removal action, response action, or corrective action.

containment—A technology or design that prevents the movement of contaminants outside of an originating source or off of a property, or onto an outside property, or beyond an agreed compliance line or zone. Containment does not necessarily treat or remove contaminants.

impacted soil—Soils identified in a residual-risk analysis (RRA) that contain chemical(s) of concern (COC) concentrations associated with an incremental lifetime cancer risk (ILCR) greater than 1-in-100,000 (1×10^{-5}).

polychlorinated biphenyls (PCBs)—PCBs are manmade organic chemicals manufactured and used in construction materials and electrical products produced from approximately 1930 to 1979. PCBs belong to a broad family of organic chemicals known as chlorinated hydrocarbons. They vary in consistency from thin, light-colored liquids to yellow or black waxy solids. They have a range of toxicity, including carcinogenic and noncarcinogenic effects. The nonflammability, chemical stability, high boiling point, and electrical insulating properties of PCBs led to their widespread use in hundreds of industrial and commercial applications, including electrical transformers, hydraulic equipment, thermal insulation, fluorescent lights, oil-based paints, and carbonless copy paper. The manufacture of PCBs was banned in 1979.

remediation—The process of correcting and/or cleaning up environmental contamination, governed by various federal and state laws, regulations, and other requirements.

response action—An action or series of actions to reduce, isolate, or remove contamination from an environmental medium (e.g., soil, air, groundwater, and surface water), with the goal of preventing harmful exposure to people or animals and reducing its impact to the environment.

site—The area of investigation or remediation.

volatile organic compounds (VOCs)—A group of organic chemicals that will vaporize or evaporate into the atmosphere at room temperature. They often have a sharp smell and can come from many products, such as office equipment, adhesives, carpeting, upholstery, paints, petroleum products, solvents, and cleaning products. Trichloroethene is an example of a VOC.

SECTION 1
INTRODUCTION

This Construction Completion Report has been prepared by Brown and Caldwell Associates on behalf of Lockheed Martin Corporation to document that the remedy for the Former Lockheed Martin Corporation French Road Facility site, located at 525 French Road in Utica, Oneida County, New York was implemented in accordance with the approved design plans presented in the New York State Department of Environmental Conservation-approved document entitled "100% Remedial Action Work Plan Soil Removal at Former Lockheed Martin Corporation French Road Facility, Utica, New York" prepared by Brown and Caldwell Associates and dated August 2018. The site location is shown on Figure 1. The remedial action associated with the site includes soil removal per the requirements specified in the New York State Department of Environmental Conservation *Technical Guidance for Site Investigation and Remediation*, and as directed through New York State Department of Environmental Conservation's *Final Statement of Basis Corrective Measures Selection* for the site (NYSDEC 2010a, 2015).

1.1 CONSTRUCTION COMPLETION REPORT OBJECTIVES

The objectives of the Construction Completion Report are to provide the following:

- Documentation that the remedial activities have been completed per the approved remedial design and Remedial Action Work Plan.
- A review of site background and history, including a discussion of chemicals of concern, and purpose and objectives for the corrective action at each area where remedial activities were performed.
- A description of the remedial activities implemented, including any changes from the remedial design (as approved by the Engineer-of-Record), and documented compliance with cleanup standards.
- A summary of waste disposal information, including pre-characterization waste characterization sampling and profiling information, and other disposal documentation included as a report appendix.

- Backfill certification documentation, including summaries of any data provided as part of the certification process by others.
- As-built drawings, including surveyed excavation boundaries, depths of excavations, and the locations of newly installed wells and excavation limits.
- A summary of green remediation Best Management Practices implemented during construction activities.
- Additional Remedial Activity implementation documentation as required for a complete description of on-site construction activities.

This Construction Completion Report has been prepared to meet these objectives for removal of polychlorinated biphenyl-impacted areas at the site, and for demolition activities at the Pole Barn. Other remedial activities included in the Remedial Action Work Plan will be completed and documented by others.

1.2 SITE HISTORY

In the early 1950s, General Electric Company acquired approximately 55 acres of undeveloped property. General Electric Company operations included manufacturing, assembling, and testing electrical components for the defense and aerospace industries. From the 1950s to early 1960s, the West Lot (encompassing approximately 2 acres within the western portion of the larger 55-acre property) was used as a waste disposal site and fire training area, and waste materials and spent solvents were burned in an 80-foot-diameter pit now referred to as the Former Burn Pit. General Electric Company operations continued until April 1993, when Martin Marietta Corporation acquired the facility. In March 1995, Martin Marietta Corporation merged with Lockheed Corporation to form Lockheed Martin Corporation. In March 1996, Lockheed Martin Corporation sold the property to Pinnacle Park, Inc., which subsequently transferred the property to—and leased it back from—the Oneida County Industrial Development Agency.

ConMed Corporation, a medical supplies manufacturer and distributor, is now the beneficial owner and occupant of the site. Lockheed Martin Corporation retains responsibility for environmental investigation, remediation, and mitigation related to past releases on the entire site, even though it no longer owns the property.

1.3 SITE LAYOUT

The site is divided into two environmental remediation sites: (1) the Solvent Dock Area (site number: 633036A), and (2) the West Lot (site number: 633036). Lockheed Martin Corporation entered an Order on Consent for the Solvent Dock Area on October 3, 2008; the Solvent Dock Area is regulated under the Resource Conservation and Recovery Act (NYSDEC 2008). Lockheed Martin Corporation entered an Order on Consent for the West Lot on April 1, 1999; the West Lot is listed as a Class IV site on the New York State Registry of Inactive Hazardous Waste Disposal Sites (New York State Superfund site) (NYSDEC 1999). Previous documents including reports of the various site investigations and remedial measures implemented to date should be referred to for a detailed site history. These documents are on file with the New York State Department of Environmental Conservation, and most historical technical documents are available on the Lockheed Martin Corporation website (Lockheed Martin 2018).

Based on the findings of site investigations to date, the New York State Department of Environmental Conservation issued the *Final Statement of Basis Corrective Measures Selection* in March 2015 (NYSDEC 2015). As directed by the *Final Statement of Basis Corrective Measures Selection*, both areas (the Solvent Dock Area and West Lot) will be managed under a site management plan and environmental easement.

The Solvent Dock Area portion of the site contains the entirety of the main facility building, several outbuildings, and paved parking areas (Figure 2); it is currently occupied by ConMed Corporation. Zoning in the Solvent Dock Area includes Light Industrial (City of Utica) and Manufacturing (Town of New Hartford). The Solvent Dock Area includes the Former Northern Perimeter Ditch, where excavation Area 2A, Area 2B, Area 2B-15, and Area 2C are located.

The western portion of the site contains the West Lot. The West Lot site (as referenced within the Order on Consent) encompasses approximately 2 acres, and comprises the Former Burn Pit area (Figure 2) (NYSDEC 1999). The West Lot, as referenced in the *Draft Site Management Plan* of the 30% Soil Removal Design Package, contains the west parking lot and West Lot site, or Former Burn Pit Area. Note that the *Final Statement of Basis Corrective Measures Selection* directed that the 10-acre parcel, previously considered a part of the West Lot, be removed from the site; therefore, the 10-acre parcel is not governed by the *Draft Site Management Plan* or environmental

easement. The West Lot is mostly covered by asphalt pavement or mixed vegetation (e.g., weeds, scrub growth, and mature forest), and contains no buildings. Zoning in the West Lot includes Planned Development Extraordinary (City of Utica) and Manufacturing (Town of New Hartford).

The surrounding land use is a mixture of industrial, commercial, and residential properties, with isolated pockets of undeveloped land. Chenango Road and Highway 5 are located directly south of the site. The properties immediately east and northeast of the site are predominantly commercial (IHOP® restaurant and Home Depot, respectively). An active New York State Department of Transportation facility, including a building used for office space and garage for trucks and other vehicles, is southwest of the site. The New York State Department of Transportation facility is on a former landfill known as the New Hartford Village dump. An office park located to the north of the site includes a manufacturing company (Indium Corporation) and an unused building (as of 2017).

1.4 NATURE AND EXTENT OF CONTAMINATION

This section summarizes previous investigations and findings at the site. For a comprehensive discussion of prior investigations and findings for the West Lot Site refer to the following reports:

- *Remedial Investigation Report, West Lot Site* (BBL 1995)
- *West Lot Site Supplemental Investigation Report* (ARCADIS 2009)
- *Report on Continued Investigation Activities West Lot Site* (ARCADIS 2012)
- *Excavation Initial Design Investigation Report* (Stantec 2017a)

For a comprehensive discussion of prior investigations and findings for the Solvent Dock Area site refer to the following reports:

- *Supplemental Investigation Report Solvent Dock Area* (ARCADIS 2010)
- *Former Northern Perimeter Ditch Supplemental Investigation Report* (ARCADIS 2011)
- *Excavation Initial Design Investigation Report* (Stantec 2017a)

The *Final Statement of Basis Corrective Measures Selection* directs that soil in the Former Northern Perimeter Ditch Area 2 impacted with chlorinated volatile organic compounds at

concentrations above the New York State Department of Environmental Conservation Part 375 Soil Cleanup Objectives for the Protection of Groundwater requires excavation and disposal (NYSDEC 2015). This remedial action (combined with other actions) was included as Alternative A2-4 in the 2013 *Corrective Measures Study, Former Northern Perimeter Ditch, Solvent Dock Area* prepared by ARCADIS (ARCADIS 2013a). The *Final Statement of Basis Corrective Measures Selection* also directs that the soil beneath the adjacent pole barn be more thoroughly characterized (NYSDEC 2015).

The pole barn was an unoccupied, one-story, slab-on-grade building immediately adjacent to and south of the Former Northern Perimeter Ditch. As described in the *Excavation Initial Design Investigation Report* and the 30% Design Soil Removal Package, soil around the Former Northern Perimeter Ditch and beneath the pole barn was determined to be impacted by volatile organic compounds at levels exceeding the Protection of Groundwater Soil Cleanup Objectives (Stantec 2017a, 2017b).

In addition to the source area excavation near Area 2 and the pole barn, the *Final Statement of Basis Corrective Measures Selection* directed that surface soil be removed from each of three locations where polychlorinated biphenyls have previously been detected in surface soil samples at levels exceeding regulatory cleanup objectives (NYSDEC 2015). Polychlorinated biphenyls in surface soil samples identified as LMCU-SS-07, LMCU-SS-20, and LMCU-SS-21 were reported at concentrations above the New York State Department of Environmental Conservation's Part 375 Soil Cleanup Objectives for Commercial Use (ARCADIS 2013b). These locations are within both the Solvent Dock Area and West Lot sites, as shown on Figure 2.

1.5 SITE GEOLOGY AND HYDROGEOLOGY

Below is a general summary of site geology and hydrogeology based on previous investigations conducted at the site between 1995 and 2017.

1.5.1 Solvent Dock Area

The Solvent Dock Area portion of the site is underlain by the following three stratigraphic units consisting of (from top to bottom): (1) fill and naturally occurring undifferentiated overburden comprising silt, sand, and gravel; (2) glacial till comprising primarily dense gray-brown silty clay

with fine sand and gravel; and (3) Utica Shale (i.e., fissile black shale) bedrock. The top of bedrock is at a depth between approximately 30 and 52 feet below ground surface; the bedrock surface dips gently to the south. Geologic cross-sections for the Solvent Dock Area were developed for the 30% Design Soil Removal Package (refer to 100% Remedial Action Work Plan, Appendix A) (Stantec 2017b).

Groundwater is present in the overburden and bedrock. Groundwater in the fill and undifferentiated overburden is unconfined and at a depth of between approximately 0.5 and 11.0 feet below ground surface. At times, surface water has been observed ponding near the Former Northern Perimeter Ditch excavation areas. Groundwater elevation data and stratigraphic information indicate that groundwater in the till is also unconfined; groundwater occurs in bedrock under semi-confined conditions. The dense till overlying the bedrock acts as a leaky confining layer. Groundwater exhibits a downward gradient at the site, indicating that the till provides strong resistance to vertical flow through the till into bedrock.

The area of highest overburden groundwater levels is near Area 2 and the pole barn. In this area of the site, groundwater is at a depth between approximately 0.5 and 7.7 feet below ground surface. The overall site groundwater flow direction maintains an east–southeast trend. Flow to the north and northeast is observed on the northern portion of the site, including the vicinity around Area 2 and the pole barn. Groundwater elevation data demonstrate localized groundwater capture by the groundwater collection and treatment system; note that one of the groundwater collection and treatment system pipes is aligned east–west and located within the Former Northern Perimeter Ditch, directly to the north of the Former Northern Perimeter Ditch Area 2 soil excavation.

1.5.2 West Lot

The West Lot is underlain by four geologic units comprising (from top to bottom) kame deposits, a silt unit, till deposits, and shale bedrock. Bedrock was encountered at depths ranging from 41 to 46 feet below ground surface. The bedrock surface dips gently to the south. Groundwater is typically encountered within a depth of 10 feet below ground surface. Groundwater flow direction is generally toward the south with a low gradient.

SECTION 2
DESIGN INVESTIGATIONS

During initial design preparation, Lockheed Martin Corporation (Lockheed Martin) performed sampling and analysis to refine the potential limits of excavation, and to delineate subsurface soil impacts in each of the three areas with polychlorinated biphenyl (PCB) impacts and areas near the pole barn with volatile organic compound (VOC) impacts. An investigation was performed in accordance with the *Revised Work Plan for Excavation Initial Design Investigation* (Work Plan) dated November 3, 2015 (Stantec 2015). The Work Plan was approved by the New York State Department of Environmental Conservation (NYSDEC) on November 13, 2015; the initial field program was implemented in November and December 2015. These investigations are described in the *Excavation Initial Design Investigation Report*, approved by NYSDEC on December 23, 2016, and the 30% Design Soil Removal Package, finalized by Stantec Consulting Services on behalf of Lockheed Martin on March 24, 2017 (Stantec 2017a, 2017b; NYSDEC 2016). The investigation results were used to refine the remedy required by the *Final Statement of Basis Corrective Measures Selection* (SB), and met the objectives presented in the SB (NYSDEC 2015).

In February 2018, Brown and Caldwell Associates (BC) characterized soils to be excavated to determine if the soils meet disposal acceptance criteria. The Lockheed Martin-approved Oneida-Herkimer Solid Waste Authority (Oneida-Herkimer) located in Ava, New York, was selected as the disposal facility for excavated soil. Oneida-Herkimer requires sampling for waste characterization at a rate of one composite sample per 1,000 tons.

Per Oneida-Herkimer requirements, the collected waste characterization samples were analyzed for the following parameters:

- Full toxicity characteristic leaching procedure (TCLP): USEPA SW846 (i.e., VOCs, semi-volatile organic compounds, metals, pesticides, and herbicides)
- Total percent solids: USEPA 160.3M
- Sulfide reactivity: USEPA SW846 Chapter 7, 9034

- Cyanide reactivity: USEPA SW845 Chapter 7
- Ignitability (i.e., flashpoint): USEPA SW846 1010/American Society of Testing and Materials D93
- pH: USEPA SW846 9045C
- Paint filter: USEPA SW846 9095
- PCBs: USEPA SW846 8082A

One grab soil sample was collected from each of the PCB-impacted soil areas and analyzed for TCLP VOCs, for a total of three TCLP VOCs samples (WC-SS-07, WC-SS-20, and WC-SS-21). One composite soil sample (WC-SS-COMP) was collected from the PCB-impacted soil areas and analyzed for the remaining required waste characterization parameters. This composite sample was comprised of a subsample collected from each of the three shallow excavations (i.e., LMCU-SS-07, LMCU-SS-20, and LMCU-SS-21). The subsamples from the three shallow excavation areas were collected within the target depth (1 foot below ground surface [bgs]) of the excavations using a hand auger. This composite sample was analyzed for all required parameters. The waste characterization samples were submitted to SGS Accutest (NYS ELAP certification identification number 10983). The waste characterization data are summarized on Table 1.

SECTION 3
RAWP IMPLEMENTATION

The 100% Remedial Action Work Plan (RAWP) included the following components:

- Removal of polychlorinated biphenyl (PCB)-impacted surface soil present at concentrations greater than NYSDEC Part 375 Commercial Use (CU) Soil Cleanup Objectives (SCOs), near three exceedances on the site (LMCU-SS-07, LMCU-SS-20, and LMCU-SS-21). The demolition of the pole barn and removal of PCB-impacted surface soil was completed by BC and National Response Corporation (NRC). BC, as the Engineer of Record, provided construction quality assurance.

- Removal of volatile organic compound (VOC)-impacted subsurface soil present at concentrations in excess of Protection of Groundwater SCOs near Former Northern Perimeter Ditch (FNPD) Area 2 and the adjacent pole barn. These excavation activities are to be performed by others and their implementation are not described in this document.

The areas subject to soil removal activities are shown on the design drawings (refer to RAWP, Appendix C) and on Figure 2.

RAWP implementation, further discussed in the following subsection of this Construction Completion Report (CCR), included:

- Mobilization
- Pole Barn Demolition
- Excavation of PCB-Impacted Soil
- Transportation and Off-Site Disposal of PCB-Impacted Soil
- Backfilling and Site Restoration
- Record Survey
- Demobilization

Record drawings/surveys are provided in Appendix A. A photograph log, which is referenced in the following sections, is provided in Appendix B.

3.1 MOBILIZATION

On August 22, 2018 an operational readiness review call was attended by Brown and Caldwell, NRC, Lockheed Martin Corporation, and CDM Smith Inc. to review project schedule, sequence, health and safety, and RAWP implementation activities. On September 17, 2018, Brown and Caldwell and NRC began mobilization to the site. The following activities were performed as part of mobilization and to prepare the site for remedy implementation.

3.1.1 Document Site Conditions

During mobilization activities between September 18 and 20, 2018, photographic and video documentation was made of existing site conditions, including work zones and routes of access and egress, pavement, and building foundations to establish a baseline to measure site restoration activities against at project completion. A photographic log is provided in Appendix B with dates of photographs and a short description of each photograph.

3.1.2 Construction Staging

The construction staging and access route plans were utilized as designed to minimize the impact of excavation activities on ConMed Corporation (ConMed) operations. A construction staging area was established in the northern portion of the ConMed east parking area. Temporary construction fence was installed on September 18, 2018 to cordon off the staging area and construction entrance (refer to Section 3.1.4). To accommodate the temporary construction entrance, approximately two parking spaces at the end of each parking row (eastern-most parking spaces) in the ConMed employee parking lot were temporarily closed to provide construction-related traffic from Chenango Road a protected traffic lane away from ConMed employee cars. All work was completed in accordance with the design drawings included in the RAWP, including planned staging areas, construction fencing, and traffic flow.

Materials (imported clean fill, geosynthetics), equipment (excavator, front-end loader, dewatering equipment), temporary facilities (portable bathrooms and hand wash station, construction trailer), health and safety equipment (personal protective equipment, first-aid station) and other miscellaneous items related to RAWP implementation were stored within the construction staging area when not in use.

Water management equipment was mobilized to the site, however, it was not required for the surface soil excavation activities and was demobilized without use.

3.1.2.1 Site Access

During RAWP implementation, construction vehicles and personnel followed the defined access routes and facility speed limit when traveling on ConMed property. The main access during construction was from the eastern ConMed parking lot entrance on Chenango Road. A second access point, located west of the ConMed building on Chenango Road, was used by tractor trailers for delivery of large equipment (e.g., excavation equipment). The main access route proceeded north along the eastern edge of the ConMed employee parking lot into the construction staging area in the northeast corner of the property. Temporary construction fence was installed and maintained during construction to restrict access along the construction traffic route from Chenango Road to the fenced construction staging area.

Site security through the temporary construction gate was maintained by NRC to limit access to the work zones and ConMed facility. Signs were posted at the entrance to deter trespassers or unauthorized personnel from entering the fenced construction staging area.

A project sign-in and sign-out process for personnel and site visitors was maintained at the construction trailer during RAWP implementation.

3.1.3 Work Zone

Exclusion work zones were established around each excavation area until backfilling was completed. Impacted surface soil excavation (i.e., PCB-impacted soil removal) areas LMCU-SS-20 and LMCU-SS-21 were excavated and backfilled on September 28, 2018. PCB-impacted soil removal area LMCU-SS-07 was excavated between October 1 and 3, 2018, and backfilled on October 11, 2018. Temporary construction fence was installed around PCB-impacted soil removal area LMCU-SS-07 until backfilling was complete.

A centralized temporary waste containment area was not required for the PCB-impacted soil removal, as the soils were direct-loaded to trucks during excavation activities for off-site disposal.

Equipment which came into contact with impacted soil (e.g., the excavator bucket) was decontaminated before demobilization from the site. Equipment which entered the excavation areas was decontaminated before leaving the work zone (see section 3.11). Beyond the perimeter of the work zones, the remainder of the site was maintained as a clean zone protect the health and safety of all ConMed and construction personnel working at the site.

3.1.4 Traffic

The east entrance to ConMed from Chenango Road was used for access to the construction staging area as previously described (refer to Section 3.1.2.1). To exit these work zones, traffic proceeded one way (i.e., west) along the northern ConMed access way to the West Gate, and then south to the western ConMed entrance/exit on Chenango Road.

Trucks were greeted when they entered the site and were accompanied by NRC flaggers to prevent accidents related to backing up or proximity to ConMed traffic on-site.

3.1.5 Erosion, Sediment Control, and Stormwater Management

A NYSDEC State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity (GP-0-15-002) was not required because less than 1 acre of ground cover was disturbed.

The site is primarily level and partially covered with asphalt or concrete for building access and storage. However, excavation work zones were primarily vegetated with grass. Before soil disturbance, the work areas were inspected to evaluate for potential for stormwater impacts or site runoff. Existing site conditions allowed much of the direct-loading to be completed from asphalt or concrete surfaces. Asphalt and concrete surfaces were routinely swept clean of dirt during RAWP implementation.

A spill kit was maintained on site for any potential equipment leaks that occurred during construction. There were no spills during the period described in this CCR.

During direct-loading of impacted soils, plastic sheeting was used to protect the underlying surface and manage impacted soils. Impacted soil which spilled during loading was promptly cleaned up to prevent migration of impacted soil from the work area.

3.1.6 Utilities

Various surface and subsurface utilities are present in and adjacent to the excavation and work zone areas. Underground utility clearance was completed in accordance with the Dig Safely New York system, Lockheed Martin's utility locating and dig permit protocol, ConMed's *Contractor Safety Program Handbook*, and other applicable local and federal requirements before commencing surface disturbance activities (ConMed 2011).

Utilities encountered during the fall 2018 mobilization included the following:

- During excavation in the LMCU-SS-21 area, an unknown electric enclosure (e.g., a handhole box) and two conduits made of polyvinyl chloride (PVC) were discovered along the western limit of the LMCU-SS-21 area. The electric enclosure was located approximately at ground surface. The two PVC conduits were located approximately 18 inches below ground surface and oriented in a west to east direction. Excavation activities stopped upon discovery and ConMed personnel were contacted. ConMed personnel inspected the electric utility determined that it was connected to a series of out-of-service light poles along the northern limit of ConMed property. ConMed personnel reported that the light poles had been previously decommissioned and confirmed that the electric utility had been abandoned.

- Prior to demolition of the pole barn, the water service into the pole barn (connected to an eye-wash and shower station) was shut-off by ConMed personnel. Piping related to the eye-wash and shower station was cut-off at the pole barn floor slab.

3.1.7 Survey Control

All survey work was completed under the oversight of a New York State Registered Professional Land Surveyor. A pre-excavation stakeout survey was completed on September 21, 2018 to stake the limits of field excavation and establish survey control on site.

3.2 HEALTH AND SAFETY

A site-specific *Health and Safety Plan* (HASP) was developed for BC's use during excavation design activities. Additionally, NRC developed a Contractor-Specific Health and Safely Plan (CHASP) for use by construction personnel during RAWP implementation. The HASP and CHASP conforms to applicable state and federal requirements, including Occupational Safety and Health Administration Hazardous Waste Operations and Emergency Response regulations, and incorporates requirements of the Lockheed Martin *Remediation Contractors EHS Handbook* and ConMed's *Contractor Safety Program Handbook* (with appended Lockheed Martin comments)

(Lockheed Martin 2014; ConMed 2011). The HASP and CHASP was available on site during all field activities and was reviewed and signed by on-site personnel upon first arrival.

As part of the requirements of the health and safety plan, a daily safety meeting (i.e., tailgate meeting) was conducted before work activities for each day. Additionally, a task-specific job safety analysis (JSA), developed by NRC, was prepared for various work tasks. Before a new work task was performed, contractor personnel reviewed and signed the task-specific JSA. JSAs were reviewed during the daily tailgate meeting, and during the work day if site conditions or work tasks change.

There were no health and safety incidents during pole barn demolition and PCB-impacted soil removal activities.

3.3 AIR MONITORING AND CONTROL MEASURES

To minimize the potential for soil removal activities to adversely impact air quality, community air monitoring was performed in the work zone and at the site perimeter in accordance with NYSDEC's Community Air Monitoring Plan guidance (NYSDEC 2010b). The RAWP implementation activities that had a potential to generate air emissions include:

- Construction-related site traffic
- Demolition of the pole barn building
- Excavation of soil from target excavation areas
- Off-site disposal of excavated soils
- Backfilling
- Site restoration

The primary air quality concern during RAWP implementation was generation and migration of volatile organic compounds, particulates (i.e., dust), and polychlorinated biphenyls. Odoriferous conditions were not expected during excavation of PCB-impacted soils due to the nature of materials excavated from the site.

Continuous monitoring of particulates and VOCs was conducted at each of the air monitoring stations. Two air monitoring stations were set up before each day of intrusive activities with one station down-wind and one station up-wind of the planned work area. Air monitoring stations were relocated during the day if wind direction or work area changed.

Each air monitoring station was equipped with a particulate meter and a photoionization detector (PID) for continuous measurement of air quality parameters in the ambient air. The particulate meters and the PIDs were configured to provide 15-minute time-weighted average (TWA) values. Both pieces of instrumentation were housed in weather-tight enclosures.

Data was downloaded once every 24 hours by on-site personnel. Weekly reports were prepared during RAWP implementation which summarized community air monitoring results and were provided to New York State Department of Health (NYSDOH) on a weekly basis during construction activities. Weekly reports are included in Appendix C.

No odor or dust control measures were required during pole barn demolition and PCB-impacted soil removal activities.

3.3.1 VOC Action Level

In accordance with the Community Air Monitoring Plan (CAMP) prepared by Brown and Caldwell and included in the 100% RAWP (Appendix G, BC 2018) and the NYSDOH *Generic Community Air Monitoring Plan* protocol, if the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities were temporarily halted, and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities could resume with continued monitoring. To mitigate the chance that remedial action activities would generate air impacts at or greater than 5 ppm above background, a tiered approach to alarm levels comprising a lower (i.e., yellow) action level and mid-action level (i.e., orange) were established. Mitigation/control measures would be implemented based on the level of the alarm, progressively becoming more urgent until a halt-work order was required.

The concentration of total organic vapors at downwind perimeter air monitoring stations did not exceed 5 ppm above background for the 15-minute average during RAWP implementation.

3.3.2 Particulate Matter Action Level

In accordance with the NYSDOH *Generic Community Air Monitoring Plan* protocol, particulates that are 10 microns or smaller and considered respirable are known as PM_{10}. As required by the CAMP prepared by Brown and Caldwell and included in the 100% RAWP (Appendix G, BC 2018), particulate data from continuous monitoring was used to calculate 15-minute TWA values for comparison to the action levels. If downwind perimeter air monitoring at the site was 100 micrograms per cubic meter ($\mu g/m^3$) of respirable particulate matter above the upwind level for the 15-minute average, dust suppression techniques would be employed. Dust suppression techniques would be employed during RAWP implementation if visible dust was seen migrating from the work area.

If, after implementation of dust suppression techniques, downwind PM_{10} particulate levels were greater than 150 $\mu g/m^3$ above the upwind level, work would be stopped and a re-evaluation of activities initiated. Work would resume if dust suppression measures and other controls were successful in reducing the downwind PM_{10} particulate concentration to within 75 $\mu g/m^3$ of the upwind level, and in preventing visible dust migration.

To mitigate the chance that RAWP implementation activities would generate visible dust or air impacts at or above 150 $\mu g/m^3$ above background, a tiered approach to alarm levels comprising a lower (i.e., yellow) action level and mid-action level (i.e., orange) was established. Mitigation/control measures would be implemented based on the level of alarm progressively becoming more urgent until a halt-work order was required.

Downwind PM_{10} particulate levels did not exceed 150 $\mu g/m^3$ above the upwind level for the 15-minute average during RAWP implementation. Dust suppression was not required during the implementation of the RAWP.

3.4 REQUIRED PERMITS

This section describes the permits and access agreements that were required for RAWP implementation:

- A property access agreement with ConMed was previously in place; access to neighboring properties was not required for RAWP implementation.

- Treatment and discharge of construction-generated waters via the groundwater collection and treatment system (GCTS) was approved by NYSDEC in an email transmittal on August 8, 2018. The GCTS is operated under SPDES Permit 0121894. This permit was not utilized, as construction did not generate any water (groundwater or otherwise) during fall 2018 activities.

- New York State requires coverage under the general SPDES permit for construction activities disturbing 1 or more acre(s). Less than 1 acre was disturbed and hence, an additional general SPDES permit was not required.

- All construction undertaken in the city of Utica costing $1,000.00 or more requires a building permit. In this case, a building demolition permit from the City of Utica and the Town of New Hartford was obtained for pole barn demolition. This permit is included in Appendix D.

3.5 GREEN REMEDIATION

Best management practices for green and sustainable remediation utilized during RAWP implementation and in accordance with NYSDEC's Green Remediation policy (NYSDEC 2010c) included the following.

- Products utilized during demolition of the pole barn, excavation, backfilling, and restoration were selected, when possible, based on manufacturing proximity to the site, and recycled content. For example, the seed utilized for restoration was mixed by and purchased from a local source rather than an out-of-state manufacturer.

- Recyclable materials (plastic water bottles, paper from construction trailer) were routinely collected and recycled locally.

- Packaging of rental equipment (cardboard shipping boxes for air monitoring equipment) was preserved and re-used at the end of the project to return rental equipment rather than disposing and purchasing new packaging.

- As appropriate for waste streams, local disposal facilities were selected. Non-hazardous waste was transported to the nearest permitted landfill (Oneida-Herkimer Solid Waste Authority in Ava, New York).

- The pole barn was deconstructed on-site and re-located to and re-used at a local farm (Keyes Farm in Honoeye, New York) rather than being recycled as scrap material or disposed as construction and demolition debris.

- Construction personnel, as possible, from New York State were utilized for on-site work to minimize transportation impacts from commuting. For example, NRC provided personnel from the nearby Syracuse, New York office rather than out-of-state locations.

- Clearing of trees was minimized, specifically around LMCU-SS-07 and LMCU-SS-21 soil removal areas. Clearing was limited to shrubs and ground cover in these areas.

- Construction vehicles access the work areas from asphalt or concrete surfaces to minimize disturbance to vegetation and to minimize soil compaction outside of work areas. Ground mats (mats placed on the ground to distribute the ground pressure caused by vehicle tires) were utilized at locations where construction vehicles were required to travel over vegetation (e.g., to access the LMCU-SS-21 soil removal area).

- Where possible, construction vehicles were shut-off when not in use to minimize idling. For example, trucks were shut-off while being loaded with soil.

3.6 POLE BARN DECONSTRUCTION

The FNPD excavation area required removal of soils beneath the pole barn, an 80-foot by 40-foot timber-framed, slab-on-grade structure with a pitched roof measuring approximately 18 feet at the peak and 12 feet at the eaves. The pole barn was deconstructed and removed from the site in preparation for the soil removal activities (to be performed by others).

AECC Environmental Consulting performed a hazardous materials survey on September 20, 2017, in preparation for pole barn demolition (refer to 100% RAWP, Appendix I). This survey determined that there were no known asbestos, lead, or PCB materials in the pole barn. The following were identified by AECC Environmental Consulting as potentially containing hazardous material:

- Fluorescent light bulbs (potential mercury and lead)
  - Light bulbs were carefully removed, placed in light bulb-specific boxes, and transferred to the NRC office in Syracuse, New York for re-use.

- Light ballasts (potential PCBs)
  - Enclosures along the perimeter of the pole barn were suspected of containing PCBs as part of light ballasts. The enclosures were removed and inspected. It was discovered that the light ballasts had been previously replaced with light-emitting diodes (LED) lights. The enclosures and LED lights were removed and transported with the rest of the pole barn for re-use off-site.

- Fire extinguishers (potential calcium carbonate)

– One fire extinguisher was present within the pole barn. ConMed personnel removed and relocated the fire extinguisher for use elsewhere at the facility.

Deconstruction of the pole barn included the following activities:

- NRC sub-contracted a certified electrician to de-energize the pole barn building in Spring 2018.
- ConMed shut-off the potable water line which served an existing emergency eye-wash and shower station located in the pole barn and provided potable water to the GCTS building on September 18, 2018. NRC closed the valves at the pole barn and removed the eye-wash and shower station on September 18, 2018. ConMed restored potable water service to the GCTS building on October 9, 2018.
- A building demolition permit was obtained from the City of Utica and the Town of New Hartford on September 17, 2018. The demolition permit was posted in the construction trailer during deconstruction activities.
- Between September 18 and October 10, 2018, the above-grade components of the pole barn were deconstructed to allow re-assembly off-site.
- Following removal activities, portions of the curb / concrete lip around the perimeter of the pole barn slab were removed to permit the natural drainage of any stormwater that might accumulate on the pole barn slab following removal of the roof or structure.

Deconstruction of the pole barn building was accomplished using hand tools, aerial lifts, a hydraulic skid-steer, and a hydraulic excavator. In general, the internal light fixtures were removed first, followed by the overhead doors, followed by the exterior metal siding, and lastly the timber frame. Building components were segregated as they were removed and staged on-site in an organized manner. Building components were loaded onto trailers and transported off-site regularly to minimize on-site staging areas.

Minimal dust was generated during deconstruction activities. Dust was controlled by periodically sweeping the work area.

3.7 SURFACE SOIL POLYCHLORINATED BIPHENYL REMEDIATION

PCB-impacted surface soil was removed from three distinct areas (LMCU-SS-07, LMCU-SS-20, and LMCU-SS-21). Excavation in these areas was performed to an approximate depth of 1 foot bgs to remove soils impacted and in excess of the NYSDEC CU SCO of 1 mg/kg total PCBs (1,000

ug/kg). A total of 1,939 cubic feet (72 cubic yards) of soil was excavated. Soil excavation volumes and weights are presented on Table 2.

As noted in the 100% RAWP, the PCB concentrations in surface soil samples meet the Industrial Use SCO. Based on the NYSDEC-approved *Excavation Initial Design Investigation Report*, NYSDEC did not require confirmatory sampling as part of the source removal excavation (Stantec 2017a) for locations SS-20 and SS-21. During finalization of the 100% RAWP, the NYSDEC requested additional confirmation samples be collected from the SS-07 excavation to inform discussions related to the final closure of this area and the potential for requirement of a Site Management Plan.

Soil from these areas was direct loaded into lined truck beds for transportation to an off-site disposal facility. Refer to Section 3.8 for Waste Management.

The final depths and limits of the surface soil removal areas are shown on Figure 3 and in Appendix A.

3.7.1 LMCU-SS-07

The LMCU-SS-07 soil removal area was located in the western portion of the site (in the West Lot) near the location of a former burn pit. Soil from this 889 square foot (sf) area was excavated to a depth of 1 foot bgs between October 1 and 3, 2018. Confirmatory soil samples were collected from the LMCU-SS-07 excavation area in accordance with the sampling plan included in the 100% RAWP and tested for total PCBs to confirm final site management requirements in this area. The locations of these confirmation samples are depicted on Figure 4. Laboratory results from the samples collected are presented on Table 3 and in Appendix E, and were less than 1,000 ug/kg with the following exceptions:

- Confirmation Sample SS-EX-4 collected from the northern sidewall at a depth of between approximately 0 and 0.5 feet bgs had a result of 1,410 ug/kg.
- Confirmation Sample SS-EX-6 collected from the southern portion of the western sidewall at a depth of between approximately 0 and 0.5 feet bgs had a result of 3,790 ug/kg.

Prior to backfill of this area, and pending the final results of the confirmation samples collected, the project team provided Mr. Michael Squire (NYSDEC) preliminary sampling results by email

on October 9, 2018 with a request that this excavation area be backfilled. Mr. Squire agreed that the area could be backfilled. A plastic snow fence was installed along the perimeter of the excavation to serve as a demarcation layer prior to backfill activities and backfill was completed.

The final data from the confirmation sampling event were provided to and discussed by conference call with NYSDEC on January 15, 2019. It was agreed that based on the exceedance of the CU SCO in two post-excavation sidewall samples (SS7-EX-6 on the western sidewall and SS7-EX-4 on the northern sidewall), a use limitation will be placed on the area immediately surrounding the SS-07 excavation to the north and west. Because the other sidewall and base samples were non-detect or below criteria, and the area is heavily vegetated, it was determined that the extent of the use limitation to the west of the SS-07 excavation can be bound by clean samples that were previously collected, and the northern boundary of the use limitation will step out a distance of approximately 5 feet to the north of the excavation sidewall to confine the exceedance at location SS7-EX-4. Use limitations for this area will be finalized during the closure of the West Lot.

3.7.2 LMCU-SS-20

The LMCU-SS-20 soil removal area was located along the northern portion of the site near an existing electric power transformer area. LMCU-SS-20 generally comprised of the soil around the entry way into the transformer area. During excavation activities of the LMCU-SS-20 area on September 29, 2018, Brown and Caldwell representatives met on-site with Mr. Michael Squire (NYSDEC). During this meeting on-site, a review of the surveyed extents of the LMCU-SS-20 area were discussed. The points describing the southern and southeastern edges of the excavation, when surveyed in the field, extended beyond the soil area and onto the asphalt pavement. Upon review of surveyed points in the field it was agreed that excavation should extend just to the edge of the asphalt pavement. Soil from this 578 sf area was excavated to a depth of 1 foot bgs.

3.7.3 LMCU-SS-21

The LMCU-SS-21 soil removal area was located along the northern limit of the site near a former water tank foundation slab. Soil from this 472 sf area, was excavated to a depth of 1 foot bgs on September 28, 2018.

3.8 WASTE MANAGEMENT

Waste characterization samples were collected in October 2017 from the three surface soil excavation areas and are summarized in Section 2 and further described in the *Preliminary Field Activities Report* (BC 2018).

3.8.1 PCB-Impacted Soil

The waste characterization samples collected from the PCB-impacted surface soil excavation areas indicate that the materials from those areas were characteristic of non-hazardous waste. The PCB-impacted surface soil was direct loaded into truck beds lined with polyethylene plastic liner (refer to Section 3.9). Trucks were staged on polyethylene liner during loading. Spilled soil on the liner was collected and placed in the truck bed for transport off-site.

Before transporting soil off-site, on-site BC construction personnel confirmed that:

- The truck bed was lined;
- The truck bed door was secured;
- The truck had a properly functioning tarp that covered the truck bed before leaving the site;
- Loose soil was cleaned off the truck before leaving the site; and
- The appropriate waste shipment documentation was in place.

PCB-impacted soil was transported to the Lockheed Martin-approved Oneida-Herkimer Solid Waste Authority (Oneida-Herkimer) located in Ava, New York.

Seven loads totaling 127.4 tons of PCB-impacted soil was transported to and disposed at Oneida-Herkimer.

Non-hazardous waste manifests and a summary table of waste tonnage is provided in Appendix F.

3.9 BACKFILLING AND SITE RESTORATION

The excavation areas were backfilled with imported clean granular materials in accordance with the design technical specifications and DER-10: *Technical Guidance for Site Investigation and Remediation* (NYSDEC 2010a).

Backfill material met the following criteria based upon NYSDEC requirements:

- Have physical properties similar to the material being excavated.
- Meet requirements of *Technical Guidance for Site Investigation and Remediation* Appendix 5: "Allowable Constituent Levels for Imported Fill or Soil for Unrestricted Use" (NYSDEC 2010a).
- A NYSDEC "Request to Import/Reuse Fill or Soil" form was submitted to NYSDEC for review and approved prior to import to the site.

Documentation for imported fill materials including results of analytical testing, results of geotechnical testing, source certification letters, and NYSDEC "Request to Import/Reuse Fill or Soil" forms are provided in Appendix G.

Areas which were disturbed by RAWP implementation activities including areas outside of soil removal areas were restored to prior conditions. Areas around LMCU-SS-07 and LMCU-SS-21 were seeded and covered with straw. Areas where equipment had impacted grassed areas on-site were also seeded and covered with straw. The area around LMCU-SS-20, which is located in an access ramp to the transformer station, was restored with stone.

3.10 FINAL SURVEY

A post-excavation survey of the PCB-impacted soil removal areas was performed on October 9, 2018 by MJ Engineering. These surveys are provided in Appendix A. An additional confirmation survey was performed to locate the demarcation layer in the northwestern areas around LMCU-SS-07 on November 1, 2019. The survey was used to confirm that the excavation horizontal limits and depths had been reached during removal activities.

3.11 DEMOBILIZATION

Following completion of pole barn removal activities and the excavation of PCB-impacted soil, NRC demobilized from the site. Equipment that came into contact with impacted soils was dry-decontaminated in accordance with Section 4.1.6 of the "Application for Clean-up of Polychlorinated Biphenyl Remediation Waste" under 40 CFR § 761.61(c) prior to leaving the work zone. This consisted of swabbing surfaces that were in contact with PCBs with a solvent and then collecting a wipe sample from the backhoe bucket and submitting it for laboratory analysis to

confirm that decontamination was complete. The laboratory results for this confirmation sample are presented in Appendix H. A total of two wipe samples were collected and the analysis resulted in no detections for PCBs, indicating that decontamination was complete.

Other equipment at the site, including site trailer and storage units, sanitary facilities, man-lifts, and temporary fencing were also removed from the site. During demobilization activities BC and ConMed personnel were in frequent communication to confirm that the site was left in adequate condition. Photographs were taken after demobilization and are included in Appendix B.

SECTION 4
CONCLUSION

During the fall of 2018, BC and their contractor NRC implemented portions of the 100% RAWP included the following components:

- Removal of PCB-impacted surface soil present at concentrations greater than NYSDEC Part 375 CU SCOs near two previously measured exceedances on the site (LMCU-SS-20, and LMCU-SS-21).
- Removal of PCB-impacted surface soil present at concentrations greater than NYSDEC Part 375 CU SCOs near one previously measured exceedance on the site (LMCU-SS-07). Confirmation sampling exceeded SCOs at two confirmation sampling locations in this area, and the area will be included in the site use restrictions to be finalized later.
- Demolition of the Pole Barn in preparation for remedial activities to be performed by others.

These activities were performed in accordance with the NYSDEC-approved RAWP and with local, state, and federal regulations.

SECTION 5
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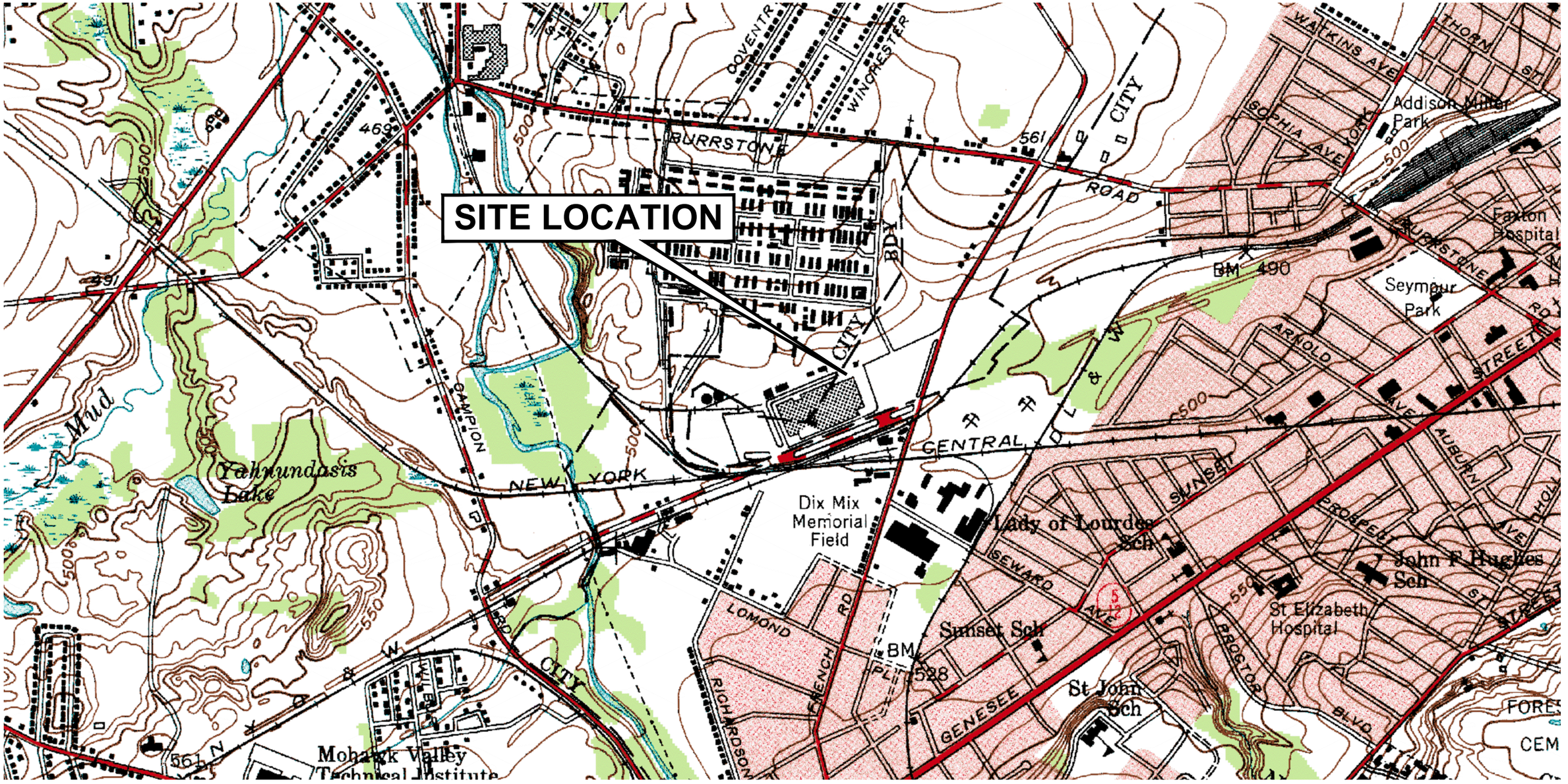
FIGURES

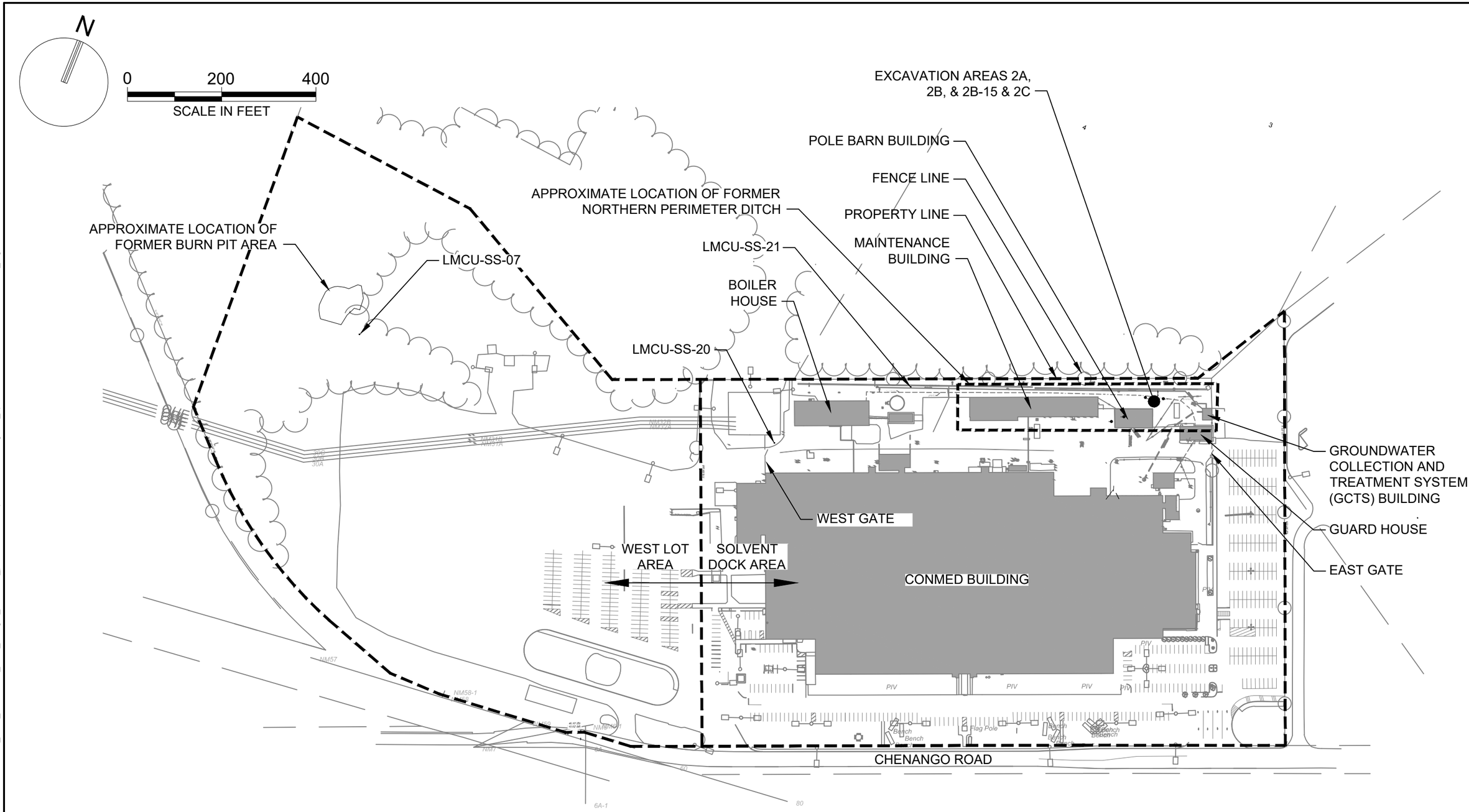


SOURCE
U.S.G.S. UTICA WEST, NEW YORK
QUADRANGLE

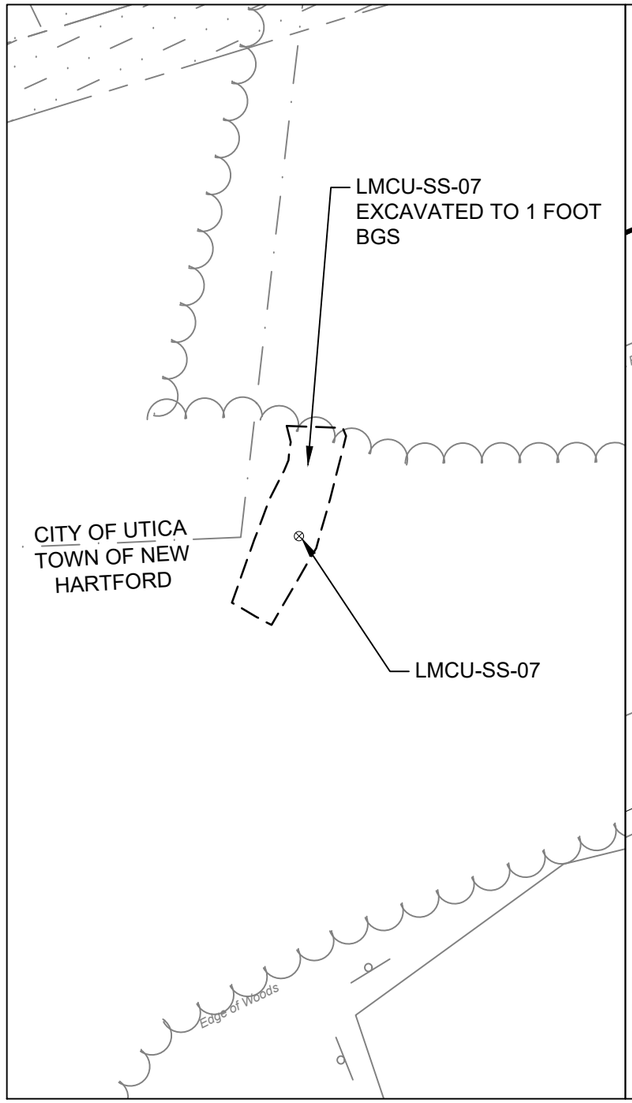
N

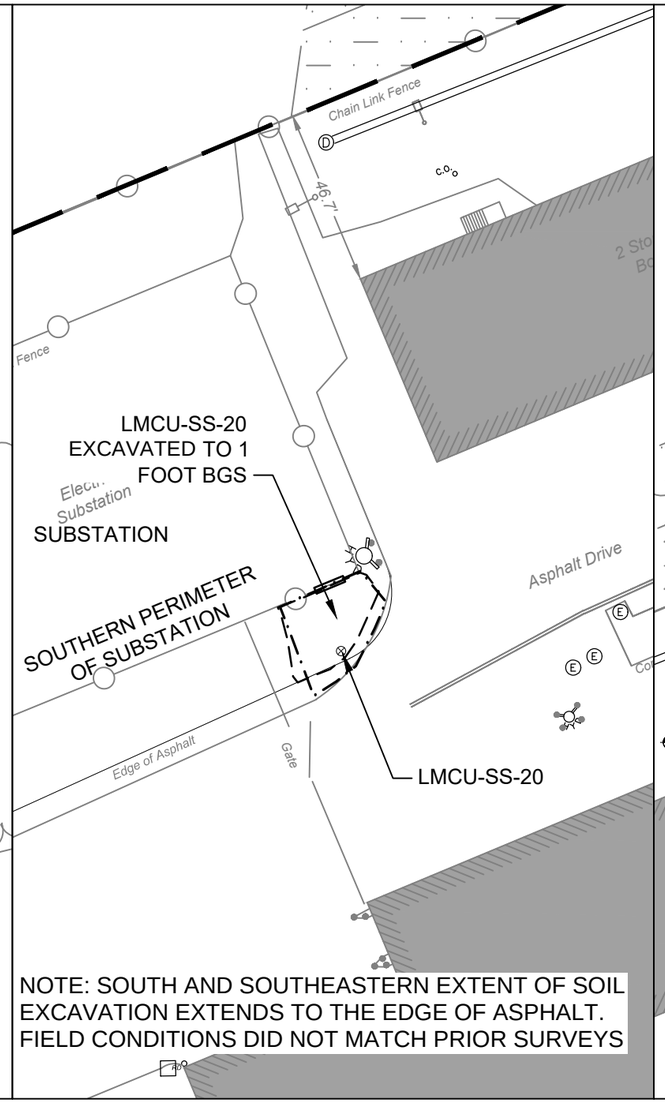
0 1000 2000
SCALE IN FEET

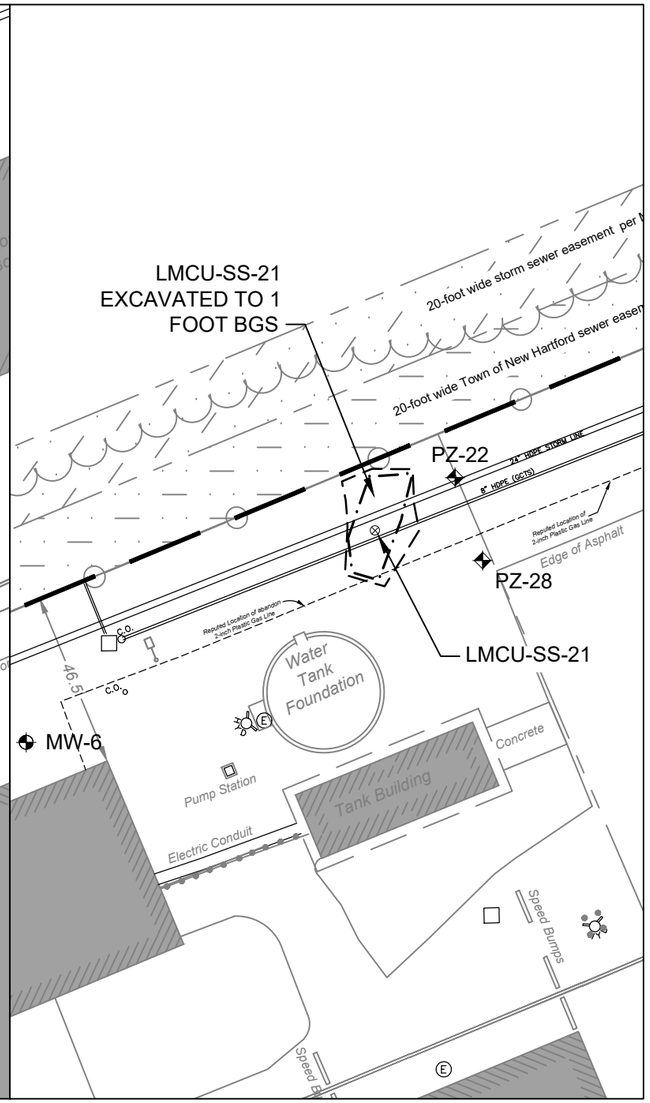
Brown AND Caldwell	SCALE: 1" = 1,000' 154142 DATE: May 15, 2020	LOCKHEED MARTIN FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY UTICA, NEW YORK	SITE LOCATION MAP FIGURE 1



Brown AND Caldwell	SCALE: 1" = 200' 154142 DATE: May 15, 2020	LOCKHEED MARTIN FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY UTICA, NEW YORK	SITE PLAN	FIGURE 2







LEGEND

- PROPERTY LINE
- MW-6 MONITORING WELL
- PZ-36 PIEZOMETER WELL
- SURVEYED EXTENT OF EXCAVATION
- PROPOSED EXTENT OF EXCAVATION

N

LMCU-SS-07 AREA

0 40 80

SCALE IN FEET

N

LMCU-SS-20 AREA

0 40 80

SCALE IN FEET

N

LMCU-SS-21 AREA

0 40 80

SCALE IN FEET

Brown AND Caldwell

SCALE: 1" = 40'

154142

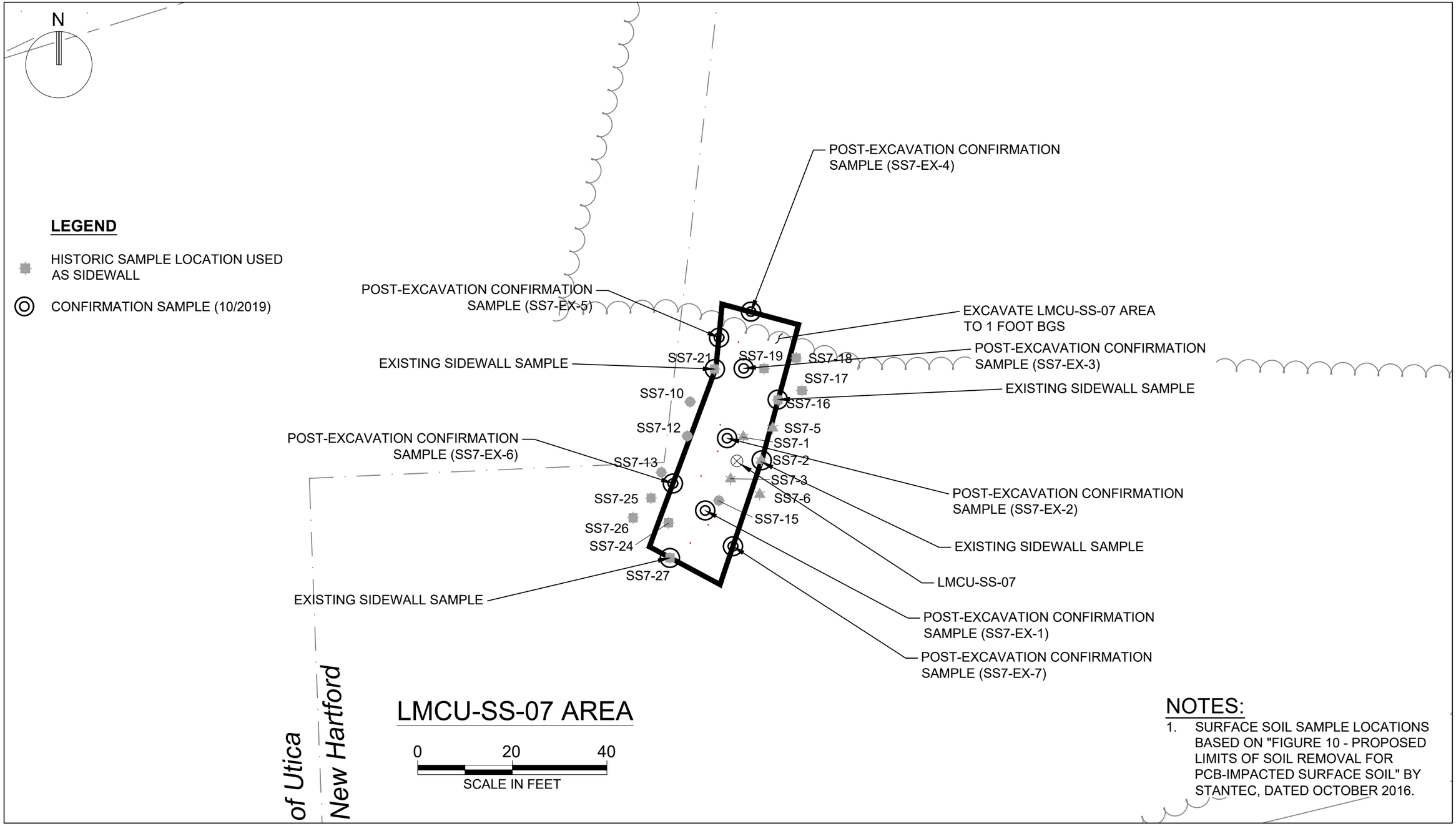
DATE: May 15, 2020

LOCKHEED MARTIN
FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY
UTICA, NEW YORK

POLYCHLORINATED BIPHENYL (PCB) EXCAVATION AREAS

FIGURE

3



NOTES:

1. SURFACE SOIL SAMPLE LOCATIONS BASED ON "FIGURE 10 - PROPOSED LIMITS OF SOIL REMOVAL FOR PCB-IMPACTED SURFACE SOIL" BY STANTEC, DATED OCTOBER 2016.

Brown AND Caldwell

SCALE: 1" = 20'

154142

DATE: May 15, 2020

SOIL CONFIRMATION SAMPLES COLLECTED AT SAMPLE LMCU-SS-07 LOCATION

FIGURE

4

TABLES

TABLE 1
SUMMARY OF WASTE CHARACTERIZATION RESULTS - SOIL
FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY
UTICA, NEW YORK

Constituent	Units	RCRA Regulatory Level (40 CFR 261)	WC-SS-07 10/26/2017	WC-SS-20 10/26/2017
RCRA Characteristics				
Toxicity Characteristic Leaching Procedure (TCLP)				
TCLP VOCs				
1,1-Dichloroethene	mg/L	0.7	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.5	0.002 U	0.002 U
1,4-Dichlorobenzene	mg/L	7.5	0.0011 U	0.0011 U
2-Butanone (MEK)	mg/L	200	0.0095 U	0.0095 U
Benzene	mg/L	0.5	0.007 U	0.007 U
Carbon tetrachloride	mg/L	0.5	0.0027 U	0.0027 U
Chlorobenzene	mg/L	100	0.0087 U	0.0087 U
Chloroform	mg/L	6	0.0011 U	0.0011 U
Tetrachloroethene (PCE)	mg/L	0.7	0.0012 U	0.0012 U
Trichloroethene (TCE)	mg/L	0.5	0.0013 U	0.0013 U
Vinyl chloride	mg/L	0.2	0.0016 U	0.0016 U
TCLP SVOCs				
1,4-Dichlorobenzene	mg/L	7.5	--	--
2,4,5-Trichlorophenol	mg/L	400	--	--
2,4,6-Trichlorophenol	mg/L	2	--	--
2,4-Dinitrotoluene	mg/L	0.13	--	--
2-Methylphenol (o-cresol)	mg/L	200	--	--
3-Methylphenol/4-Methylphenol (m,p-cresol)	mg/L	200	--	--
Hexachlorobenzene	mg/L	0.13	--	--
Hexachlorobutadiene	mg/L	0.5	--	--
Hexachloroethane	mg/L	3	--	--
Nitrobenzene	mg/L	2	--	--
Pentachlorophenol	mg/L	100	--	--
Pyridine	mg/L	5	--	--
TCLP Herbicide				
2,4,5-TP (Silvex)	mg/L	1	--	--
Dichlorophenoxyacetic acid (2,4-D)	mg/L	10	--	--
TCLP Pesticide				
BHC, gamma (Lindane)	mg/L	0.4	--	--
Chlordane	mg/L	0.03	--	--
Endrin	mg/L	0.02	--	--
Heptachlor	mg/L	0.008	--	--
Heptachlor epoxide	mg/L	0.008	--	--
Methoxychlor	mg/L	10	--	--
Toxaphene	mg/L	0.5	--	--
TCLP Metals				
Arsenic	mg/L	5	--	--
Barium	mg/L	100	--	--
Cadmium	mg/L	1	--	--
Chromium	mg/L	5	--	--
Lead	mg/L	5	--	--
Mercury	mg/L	0.2	--	--
Selenium	mg/L	1	--	--
Silver	mg/L	5	--	--

TABLE 1
SUMMARY OF WASTE CHARACTERIZATION RESULTS - SOIL
FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY
UTICA, NEW YORK

Constituent	Units	RCRA Regulatory Level (40 CFR 261)	WC-SS-07 10/26/2017	WC-SS-20 10/26/2017
General Chemistry				
Corrosivity as pH	su	<2/>12.5	--	--
Ignitability	Deg. F	<140	--	--
Paint Filter Test	ml/100g	--	--	--
Reactive cyanide	mg/kg	>250	--	--
Reactive sulfide	mg/kg	>500	--	--
Percent Solids	%	-		
Polychlorinated Biphenyls (PCBs)				
Aroclor 1016	ug/kg	-	--	--
Aroclor 1221	ug/kg	-	--	--
Aroclor 1232	ug/kg	-	--	--
Aroclor 1242	ug/kg	-	--	--
Aroclor 1248	ug/kg	-	--	--
Aroclor 1254	ug/kg	-	--	--
Aroclor 1260	ug/kg	-	--	--
Aroclor 1268	ug/kg	-	--	--
Aroclor 1262	ug/kg	-	--	--

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the reporting limit for the analyzed constituent.
NC - Noncorrosive
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
Bold and Boxed text exceedes the RCRA Regulatory Level (40 CFR 261)

TABLE 1
SUMMARY OF WASTE CHARACTERIZATION RESULTS - SOIL
FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY
UTICA, NEW YORK

Constituent	Units	RCRA Regulatory Level (40 CFR 261)	WC-SS-22 10/26/2017	WC-SS-COMP 10/26/2017
RCRA Characteristics				
Toxicity Characteristic Leaching Procedure (TCLP)				
TCLP VOCs				
1,1-Dichloroethene	mg/L	0.7	0.001 U	--
1,2-Dichloroethane	mg/L	0.5	0.002 U	--
1,4-Dichlorobenzene	mg/L	7.5	0.0011 U	
2-Butanone (MEK)	mg/L	200	0.0095 U	--
Benzene	mg/L	0.5	0.007 U	--
Carbon tetrachloride	mg/L	0.5	0.0027 U	--
Chlorobenzene	mg/L	100	0.0087 U	--
Chloroform	mg/L	6	0.0011 U	--
Tetrachloroethene (PCE)	mg/L	0.7	0.0012 U	--
Trichloroethene (TCE)	mg/L	0.5	0.0013 U	--
Vinyl chloride	mg/L	0.2	0.0016 U	--
TCLP SVOCs				
1,4-Dichlorobenzene	mg/L	7.5	--	0.0017 U
2,4,5-Trichlorophenol	mg/L	400	--	0.13 U
2,4,6-Trichlorophenol	mg/L	2	--	0.0092 U
2,4-Dinitrotoluene	mg/L	0.13	--	0.0055 U
2-Methylphenol (o-cresol)	mg/L	200	--	0.0089 U
3-Methylphenol/4-Methylphenol (m,p-cresol)	mg/L	200	--	0.0088 U
Hexachlorobenzene	mg/L	0.13	--	0.0033 U
Hexachlorobutadiene	mg/L	0.5	--	0.0049 U
Hexachloroethane	mg/L	3	--	0.0039 U
Nitrobenzene	mg/L	2	--	0.0064 U
Pentachlorophenol	mg/L	100	--	0.014 U
Pyridine	mg/L	5	--	0.0039 U
TCLP Herbicide				
2,4,5-TP (Silvex)	mg/L	1	--	0.00025 U
Dichlorophenoxyacetic acid (2,4-D)	mg/L	10	--	0.0012 U
TCLP Pesticide				
BHC, gamma (Lindane)	mg/L	0.4	--	0.00004 U
Chlordane	mg/L	0.03	--	0.0014 U
Endrin	mg/L	0.02	--	0.00004 U
Heptachlor	mg/L	0.008	--	0.00003 U
Heptachlor epoxide	mg/L	0.008	--	0.00004 U
Methoxychlor	mg/L	10	--	0.000045 U
Toxaphene	mg/L	0.5	--	0.0011 U
TCLP Metals				
Arsenic	mg/L	5	--	<0.50
Barium	mg/L	100	--	<1.0
Cadmium	mg/L	1	--	<0.025
Chromium	mg/L	5	--	<0.050
Lead	mg/L	5	--	<0.50
Mercury	mg/L	0.2	--	<0.00020
Selenium	mg/L	1	--	<0.50
Silver	mg/L	5	--	<0.050

TABLE 1
SUMMARY OF WASTE CHARACTERIZATION RESULTS - SOIL
FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY
UTICA, NEW YORK

Constituent	Units	RCRA Regulatory Level (40 CFR 261)	WC-SS-22 10/26/2017	WC-SS-COMP 10/26/2017
General Chemistry				
Corrosivity as pH	su	<2/>12.5	--	8.16 NC
Ignitability	Deg. F	<140	--	>200
Paint Filter Test	ml/100g	--	--	<0.50
Reactive cyanide	mg/kg	>250	--	<11
Reactive sulfide	mg/kg	>500	--	<100
Percent Solids	%	-		95.7
Polychlorinated Biphenyls (PCBs)				
Aroclor 1016	ug/kg	-	--	13 U
Aroclor 1221	ug/kg	-	--	13 U
Aroclor 1232	ug/kg	-	--	8.5 U
Aroclor 1242	ug/kg	-	--	5 U
Aroclor 1248	ug/kg	-	--	19 U
Aroclor 1254	ug/kg	-	--	295
Aroclor 1260	ug/kg	-	--	10 U
Aroclor 1268	ug/kg	-	--	4.7 U
Aroclor 1262	ug/kg	-	--	2.4 U

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the reporting limit for the analyzed constituent.
NC - Noncorrosive
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
Bold and Boxed text exceedes the RCRA Regulatory Level (40 CFR 261)

TABLE 2
SOIL EXCAVATION VOLUME AND WEIGHT
FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY
UTICA, NEW YORK

EXCAVATION AREA DESIGNATION	EXCAVATION AREA (square feet)	EXCAVATION DEPTH (feet)	EXCAVATION VOLUME (cubic feet)	EXCAVATION VOLUME (cubic yards)	WEIGHT OF DISPOSED SOIL (tons)
SS-07	889	1	889	33	--
SS-20	578	1	578	21	--
SS-21	472	1	472	17	--
Total	**1939**	**N/A**	**1939**	**72**	**127.4**

Note: Weight of Disposed Soil (tons) taken tonnage tickets received from landfill.

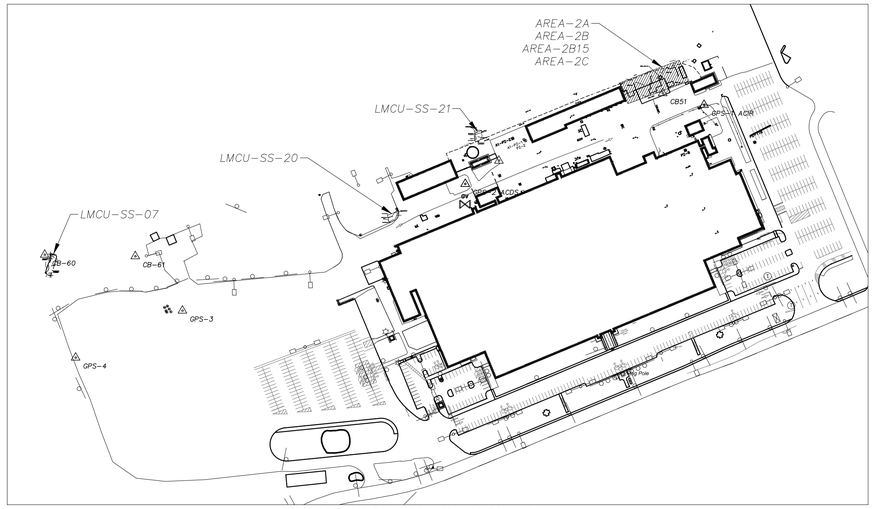
TABLE 3
SUMMARY OF CONFIRMATION SOIL SAMPLE RESULTS
FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY
UTICA, NEW YORK

Constituent	Units	NYSDEC CU SCO	SS7-EX-1 10/1/2018		SS7-EX-2 10/1/2018		SS7-EX-3 10/1/2018		SS7-EX-4 10/1/2018		SS7-EX-5 10/1/2018		SS7-EX-6 10/1/2018		SS7-EX-7 10/1/2018		SS7-EX-DUP 10/1/2018	
Polychlorinated Biphenyls (PCBs)																		
Aroclor 1016	ug/kg	-	--	U	--	U	--	U	--	U	--	U	--	U	--	U	--	U
Aroclor 1221	ug/kg	-	--	U	--	U	--	U	--	U	--	U	--	U	--	U	--	U
Aroclor 1232	ug/kg	-	--	U	--	U	--	U	--	U	--	U	--	U	--	U	--	U
Aroclor 1242	ug/kg	-	--	U	--	U	--	U	--	U	--	U	--	U	--	U	--	U
Aroclor 1248	ug/kg	-	--	U	--	U	--	U	--	U	--	U	--	U	--	U	--	U
Aroclor 1254	ug/kg	-	30.3	J	67.7		--	U	**1410**		446		**3790**		22.4	J	166	
Aroclor 1260	ug/kg	-	38.9		54.0		--	U	--	U	--	U	--	U	60.0		58.1	
Aroclor 1268	ug/kg	-	--	U	--		--	U	--	U	--	U	--	U	--	U	--	U
Aroclor 1262	ug/kg	-	--	U	--		--	U	--	U	--	U	--	U	--	U	--	U
PCB, total	ug/kg	1,000			--		--		--		--		--		--		--	

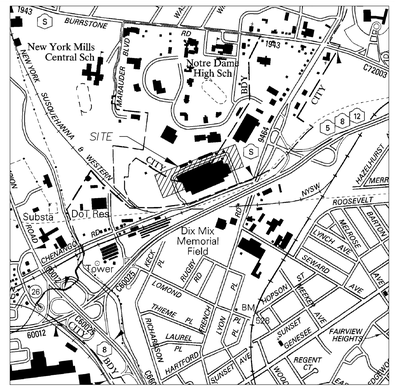
Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the reporting limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
Bold and Boxed text exceedes the NYSDEC CU SCO of 1,000 ug/kg
CU SCO - Commercial Use Soil Cleanup Objective - NYSDEC Part 375. CP-51 / Soil Cleanup Guidance, October 21, 2010

APPENDICES

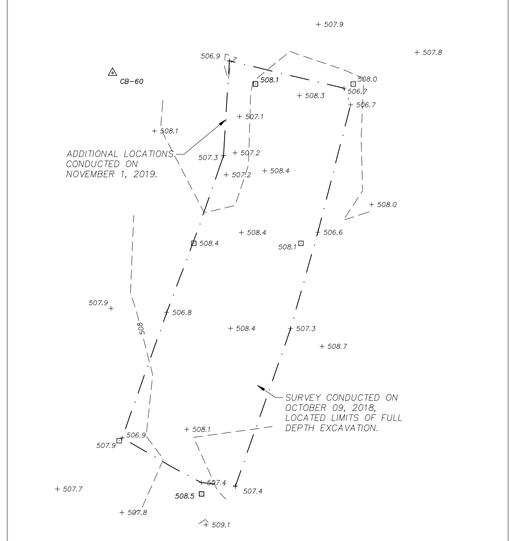
Appendix A—Record Drawings and Surveys



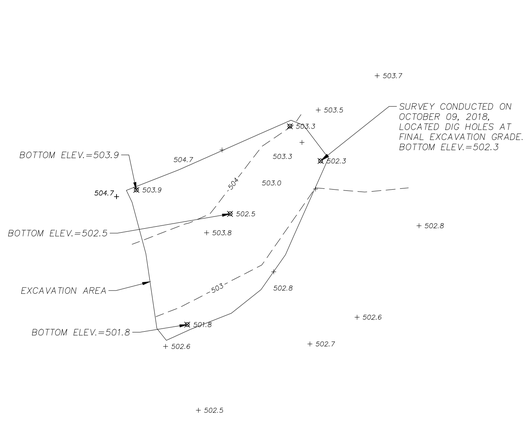
PROPOSED EXCAVATION AREA LOCATION MAP
N.T.S.



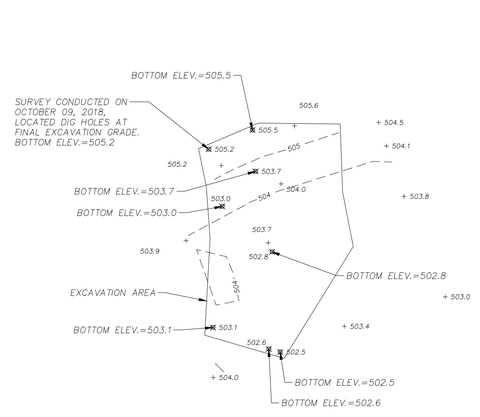
SITE LOCATION MAP
N.T.S.



LMCU-SS-07



LMCU-SS-20



LMCU-SS-21

LEGEND:

PROPOSED EXCAVATION AREA

SPOT ELEVATION + 503.4

EXCAVATION AREA STAKED POINT □

SHALLOW EXCAVATION HOLE ⊠

NOTES:
1. HORIZONTAL DATUM REFERS TO NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (NAD83).
2. VERTICAL DATUM REFERS TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. CONTOUR INTERVALS = 1' CONTOURS.
4. FIELD WORK CONDUCTED BY M.J. ENGINEERING AND LAND SURVEYING, P.C. ON OCTOBER 9, 2018.

10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

SCALE: AS SHOWN
CONTRACT No.:
MJ PROJ. No.: 1123.04
DATE: 10.09.201□

1 OF 1

EXISTING CONDITIONS SURVEY
FORMER LOCKHEED MARTIN SITE,
CITY OF UTICA, ONEIDA COUNTY,
STATE OF NEW YORK

Engineering and Land Surve□ng, P.C.
1533 Crescent Road - Clifton Park, NY 12065

JOSEPH G. MALINOWSKI
STATE OF NEW YORK
LICENSED LAND SURVEYOR
SEAL

SUBMITTAL □REVISIONS					
No.	DATE	DESCRIPTION	BY	REV'D BY:	DATE
1	11.12.19	ADDITIONAL LOCATIONS LMCU-SS-0□	MJF	DJN	11.12.19

PROJ. MGR: DN
CHIEF DES:
DES'D BY:
DRAWN BY: DV
CHK'ED BY:

File Name: G:\MJ\1123.04 LM Utica\Cad\MJ1123-04_XSRVY.d□g □La□out: 1 of 1 - Revised □
Date: Thu, Nov 14, 2019 - 2:45 PM Name: mfrisbee□

Appendix B—Photographic Log

Appendix B - Photograph Log
Pole Barn Deconstruction and PCB-Impacted Soil Removal at
Former Lockheed Martin Corporation French Road Facility
Utica, New York

Date: 04/20/2016 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: KT
Description: Photograph #1 facing the south side of the pole barn building.

Date: 09/18/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #2 from inside the eastern portion of the pole barn building facing west showing removal of internal pole barn fixtures.

Date: 09/21/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #4 from the northeast corner of the pole barn building showing siding removed from the northern side of the building.

Date: 09/24/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #5 from the western side of the pole barn building showing removal of siding from the building.

Date: 10/03/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #6 from the northwestern side of the pole barn building facing east showing removal of roofing from the building.

Date: 10/08/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #7 from the southern side of the pole barn building facing north showing removal of pole barn roof trusses.

Date: 10/12/2019 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #8 from the western side of the former pole barn foundation facing east showing the building superstructure removed and the foundation left in-place.

Date: 09/28/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #9 from the eastern side of Excavation Area LMCU-SS-21 facing west showing set before soil removal from this area.

Date: 09/28/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph 10 from the eastern portion of Excavation Area LMCU-SS-21 facing west showing soil removed to target depth from the northern portion of this area.

Date: 09/28/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #11 from the eastern portion of Excavation Area LMCU-SS-21 facing south showing soil removed to target depth from the northern portion of this area.

Date: 09/28/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #12 from the eastern portion of Excavation Area LMCU-SS-21 facing west showing placement of backfill in this area.

Date: 09/28/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #13 from the southern portion of Excavation Area LMCU-SS-20 facing north showing soil removed to target depth in the western portion of this area.

Date: 09/28/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #14 from the central portion of Excavation Area LMCU-SS-20 facing east showing crushed stone backfill placed in the western and central portions of this area (foreground) and soil removed to target depth in the eastern portion of this area (background).

Date: 09/28/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #15 from the southeastern portion of Excavation Area LMCU-SS-20 facing northwest showing this area backfill and restored with crushed stone..

Date: 10/01/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #16 from the southern portion of Excavation Area LMCU-SS-07 facing north showing soil removed to target depth in the southern portion of this area.

Date: 10/10/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #17 from the northeastern portion of Excavation Area LMCU-SS-07 facing south showing soil removed from the southern portion of this area to target depth. Photograph also shows orange snow fence placed on the western sidewall of this area.

Date: 10/10/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #18 from the northeastern portion of Excavation Area LMCU-SS-07 facing west showing soil removed from the northern portion of this area to target depth. Photograph also shows orange snow fence placed on the northern and western sidewalls of this area.

Date: 10/10/2019 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #19 from the southern portion of Excavation Area LMCU-SS-07 facing north showing backfill placed in this area.

Date: 10/11/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #20 from the northeastern portion of Excavation Area LMCU-SS-07 facing south showing seed and straw being spread at this location.

Date: 10/11/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #21 from the southern portion of Excavation Area LMCU-SS-20 facing north showing seed and straw spread at this location.

Date: 10/12/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #22 from the from the southeastern side of the former pole barn building facing north showing seed and straw spread at this location.

Date: 10/11/2018 Site Name: Former Lockheed Martin Corporation French Road Facility
Photographer's Initials: AG
Description: Photograph #21 from the eastern side of the former pole barn building facing northwest showing seed and straw spread at this location.

Appendix C—Community Air Monitoring Plan Data

Community Air Monitoring Summary
Former French Road Facility Soil Excavation
Utica NY

Date	Description of Work	Environmental Conditions	Air Monitoring Location	Parameter	Average Background Level	Daily Average	Max 15 Min. Average	Time of Exceedance	Comments
9/17/2018	Mobilization and Equipment Delivery	Partly Cloudy, Calm to 10-5 MPH, 70-80 deg.	NA						
9/18/2018	Mobilization and Equipment Delivery, Mowing	Partly Cloudy, winds 5 MPH, 70-80 deg.	NA						
9/19/2018	Mobilization and Equipment Delivery	Partly Cloudy, Calm to 5 MPH, 70-80 deg.	NA						
9/20/2018	Equipment Delivery, Pole Barn deconstruction / dismantling	Partly Cloudy, Calm to 5 MPH, 70-80 deg.	NA						Deconstruction of structure performed with no visible dust generated
9/21/2018	Equipment Delivery, Pole Barn deconstruction / dismantling	Partly Cloudy, 5 MPH winds with gusts to 25 MPH, 65-75 deg.	NA						Deconstruction of structure performed with no visible dust generated
9/24/2018	Pole barn deconstruction / dismantling	Partly Cloudy, 0-5 / 5-15 MPH winds, 55-65 deg.	NA						Deconstruction of structure performed with no visible dust generated
9/25/2018	Pole barn deconstruction / dismantling	Rain / Partly Cloudy. Winds 0-10 MPH. 50-65 deg F	NA						Deconstruction of structure performed with no visible dust generated
9/26/2018	Pole barn deconstruction / dismantling	Light Rain / Partly Cloudy. Winds 0-10 MPH. 65-75 deg.	NA						Deconstruction of structure performed with no visible dust generated
9/27/2018	Pole barn deconstruction / dismantling, installation of erosion control measures.	Partly Cloudy. Winds 0-10 MPH. 50-65 deg F	NA						Deconstruction of structure performed with no visible dust generated
9/28/2018	Shallow excavations	Rain / Partly Cloudy. Winds 0-5 MPH. 65-75 deg.	SS-20 / NA - rain SS-21 / upwind and downwind stations	Dust	*Background not collected due to prior rainy week. Will be collected week of 10/1.	upwind: 0 mg/m^3 downwind: -0.003 mg/mg^3	upwind: 0 mg/m^3 downwind: -0.002 mg/mg^3	NA	Excavation initiated in AM with rain conditions. Dust monitors deployed after rain stopped.

Community Air Monitoring Summary
Former French Road Facility Soil Excavation
Utica NY

Date	Description of Work	Environmental Conditions	Air Monitoring Location	Parameter	Average Background Level	Daily Average	Max 15 Min. Average	Time of Exceedance	Comments
10/1/2018	Shallow excavation of SS-07, Pole Barn deconstruction / dismantling	Partly Cloudy. Winds 0-5 MPH. 60 deg.	SS-07 / upwind and downwind stations	Dust and VOCs	*Background not collected due to prior rainy week. Will be collected week of 10/1.	upwind: Dust - 0.001 mg/m^3. VOCs - 0.0 ppm downwind: Dust - 0.000 mg/mg^3. VOCs - 0.0 ppm	upwind: Dust - 0.0 mg/m^3. VOCs - 0.0 ppm downwind: Dust -0.0 mg/mg^3. VOCs - 0.0 ppm	NA	
10/2/2018	Shallow excavation of SS-07, Pole Barn deconstruction / dismantling	Partly Cloudy/Heavy Rain. Winds 0-5 MPH. 60 deg.	SS-07 / upwind and downwind stations	Dust and VOCs	*Background not collected due to prior rainy week. Will be collected week of 10/1.	upwind: 0.000 mg/m^3 downwind: 0.000 mg/mg^3	upwind: 0.000 mg/m^3 downwind: .001 mg/mg^3	NA	CAMP implementation ceased at approximately 8:30 AM due to rain.
10/3/2018	Pole Barn deconstruction / dismantling	Cloudy. Winds 0-5 MPH. 60 deg.							Deconstruction of structure performed with no visible dust generated
10/4/2018	Pole Barn deconstruction / dismantling	Cloudy/Partly Cloud. Winds 0-5 MPH. 65-70 deg.							Deconstruction of structure performed with no visible dust generated
10/5/2018	Pole Barn deconstruction / dismantling, installation of fence around SS-07	Partly Cloud. Winds 0-5 MPH. 55-65 deg.	Pole Barn / upwind and downwind stations	Dust and VOCs	Background air monitoring conducted	upwind: Dust - 0.000 mg/m^3. VOCs - 0.9 ppm downwind: Dust - 0.003 mg/mg^3. VOCs - 0.0 ppm	upwind: Dust - 0.003 mg/m^3. VOCs - 6.9 ppm downwind: Dust - 0.006 mg/mg^3. VOCs - 0.0 ppm		Deconstruction of structure performed with no visible dust generated. Based on the decreasing detection of VOCs, and the final readings, the CAMP enclosures used at the upwind and downwind CAMP station area believed to have been impacted prior to arriving on-site. Baseline monitoring for VOCs will be repeated.

Community Air Monitoring Summary
Former French Road Facility Soil Excavation
Utica NY

Date	Description of Work	Environmental Conditions	Air Monitoring Location	Parameter	Average Background Level	Daily Average	Max 15 Min. Average	Time of Exceedance	Comments
10/8/2018	Pole Barn deconstruction / dismantling	Partly Cloud. Winds 0-5 MPH. 50-60 deg.	NA						Deconstruction of structure performed with no visible dust generated
10/9/2018	Pole Barn deconstruction / dismantling Survey	Partly Cloud. Winds 0-5 MPH. 70-80 deg.	NA						Deconstruction of structure performed with no visible dust generated
10/10/2018	Placement of clean material / backfill shallow excavation Decontamination and demobilization of equipment	Partly Cloud. Winds 0-5 MPH. 70-80 deg.	NA						
10/11/2018	Seeding / site stabilization Demobilization of equipment	Light Rain. Winds 0-10 MPH. 65-75 deg.	NA						
10/12/2018	Demobilization of equipment	Partly Cloudy. Winds 0-5MPH. 55 deg.	NA						

Appendix D—Demolition Permit

CONTRACTORS SHALL HAUL AWAY

ALL DEBRIS FROM PREMISES.

CITY OF UTICA

DEMOLITION PERMIT

THIS CARD MUST BE POSTED

NO: D18-0019 DATE 9-17-18

GRANTED TO: Con Med Corp.

STREET NO: 525 French Rd.

AUTHORIZED WORK: Total Demo of 3200 SF Pole Barn

DEPARTMENT OF CODES ENFORCEMENT

Appendix E—Confirmation Sampling Data

Appendix E—Confirmation Sampling Data

Sample Summary

Brown and Caldwell

Job No: JC75031

BC Utica Excavation, NY
Project No: 15102

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JC75031-1	10/01/18	12:55	AG	10/02/18	SO	Soil	SS7-EX-1
JC75031-2	10/01/18	13:00	AG	10/02/18	SO	Soil	SS7-EX-2
JC75031-2D	10/01/18	11:11	AG	10/02/18	SO	Soil Dup/MSD	MSD-100118
JC75031-2S	10/01/18	11:11	AG	10/02/18	SO	Soil Matrix Spike	MS-10018
JC75031-3	10/01/18	12:50	AG	10/02/18	SO	Soil	SS7-EX-6
JC75031-4	10/01/18	12:51	AG	10/02/18	SO	Soil	SS7-EX-7
JC75031-5	10/01/18	00:00	AG	10/02/18	SO	Soil	SS7-EX-DUP-100118

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID: SS7-EX-1
Lab Sample ID: JC75031-1
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: BC Utica Excavation, NY

Date Sampled: 10/01/18
Date Received: 10/02/18
Percent Solids: 93.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX236945.D	1	10/04/18 12:27	SK	10/03/18 09:30	OP15588	GXX6494
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	14	ug/kg	
11104-28-2	Aroclor 1221	ND	35	14	ug/kg	
11141-16-5	Aroclor 1232	ND	35	9.3	ug/kg	
53469-21-9	Aroclor 1242	ND	35	5.5	ug/kg	
12672-29-6	Aroclor 1248	ND	35	20	ug/kg	
11097-69-1	Aroclor 1254	30.3	35	8.6	ug/kg	J
11096-82-5	Aroclor 1260	38.9	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	5.2	ug/kg	
37324-23-5	Aroclor 1262	ND	35	2.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		24-152%
877-09-8	Tetrachloro-m-xylene	97%		24-152%
2051-24-3	Decachlorobiphenyl	95%		10-166%
2051-24-3	Decachlorobiphenyl	104%		10-166%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SS7-EX-2
Lab Sample ID: JC75031-2
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: BC Utica Excavation, NY

Date Sampled: 10/01/18
Date Received: 10/02/18
Percent Solids: 92.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX236946.D	1	10/04/18 12:46	SK	10/03/18 09:30	OP15588	GXX6494
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	14	ug/kg	
11104-28-2	Aroclor 1221	ND	34	14	ug/kg	
11141-16-5	Aroclor 1232	ND	34	9.2	ug/kg	
53469-21-9	Aroclor 1242	ND	34	5.4	ug/kg	
12672-29-6	Aroclor 1248	ND	34	20	ug/kg	
11097-69-1	Aroclor 1254	67.7	34	8.4	ug/kg	
11096-82-5	Aroclor 1260	54.0	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	5.1	ug/kg	
37324-23-5	Aroclor 1262	ND	34	2.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%		24-152%
877-09-8	Tetrachloro-m-xylene	100%		24-152%
2051-24-3	Decachlorobiphenyl	99%		10-166%
2051-24-3	Decachlorobiphenyl	101%		10-166%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS7-EX-6		
Lab Sample ID:	JC75031-3	**Date Sampled:**	10/01/18
Matrix:	SO - Soil	**Date Received:**	10/02/18
Method:	SW846 8082A SW846 3546	**Percent Solids:**	90.5
Project:	BC Utica Excavation, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	XX236928.D	20	10/04/18 06:27	SK	10/03/18 09:30	OP15588	GXX6493
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	720	290	ug/kg	
11104-28-2	Aroclor 1221	ND	720	290	ug/kg	
11141-16-5	Aroclor 1232	ND	720	190	ug/kg	
53469-21-9	Aroclor 1242	ND	720	110	ug/kg	
12672-29-6	Aroclor 1248	ND	720	420	ug/kg	
11097-69-1	Aroclor 1254	3790	720	180	ug/kg	
11096-82-5	Aroclor 1260	ND	720	230	ug/kg	
11100-14-4	Aroclor 1268	ND	720	110	ug/kg	
37324-23-5	Aroclor 1262	ND	720	55	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%		24-152%
877-09-8	Tetrachloro-m-xylene	108%		24-152%
2051-24-3	Decachlorobiphenyl	102%		10-166%
2051-24-3	Decachlorobiphenyl	101%		10-166%

(a) Diluted due to high concentration of target compound.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS7-EX-7		
Lab Sample ID:	JC75031-4	**Date Sampled:**	10/01/18
Matrix:	SO - Soil	**Date Received:**	10/02/18
Method:	SW846 8082A SW846 3546	**Percent Solids:**	86.4
Project:	BC Utica Excavation, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX236947.D	1	10/04/18 13:04	SK	10/03/18 09:30	OP15588	GXX6494
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	15	ug/kg	
11104-28-2	Aroclor 1221	ND	38	15	ug/kg	
11141-16-5	Aroclor 1232	ND	38	10	ug/kg	
53469-21-9	Aroclor 1242	ND	38	6.0	ug/kg	
12672-29-6	Aroclor 1248	ND	38	22	ug/kg	
11097-69-1	Aroclor 1254	22.4	38	9.2	ug/kg	J
11096-82-5	Aroclor 1260	60.0	38	12	ug/kg	
11100-14-4	Aroclor 1268	ND	38	5.6	ug/kg	
37324-23-5	Aroclor 1262	ND	38	2.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		24-152%
877-09-8	Tetrachloro-m-xylene	77%		24-152%
2051-24-3	Decachlorobiphenyl	75%		10-166%
2051-24-3	Decachlorobiphenyl	84%		10-166%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SS7-EX-DUP-100118
Lab Sample ID: JC75031-5
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: BC Utica Excavation, NY

Date Sampled: 10/01/18
Date Received: 10/02/18
Percent Solids: 93.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX237011.D	1	10/05/18 10:49	SK	10/03/18 09:30	OP15588	GXX6494
Run #2							

	Initial Weight	Final Volume
Run #1	16.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	32	13	ug/kg	
11104-28-2	Aroclor 1221	ND	32	13	ug/kg	
11141-16-5	Aroclor 1232	ND	32	8.7	ug/kg	
53469-21-9	Aroclor 1242	ND	32	5.2	ug/kg	
12672-29-6	Aroclor 1248	ND	32	19	ug/kg	
11097-69-1	Aroclor 1254	166	32	8.0	ug/kg	
11096-82-5	Aroclor 1260	58.1	32	10	ug/kg	
11100-14-4	Aroclor 1268	ND	32	4.8	ug/kg	
37324-23-5	Aroclor 1262	ND	32	2.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	129%		24-152%
877-09-8	Tetrachloro-m-xylene	124%		24-152%
2051-24-3	Decachlorobiphenyl	120%		10-166%
2051-24-3	Decachlorobiphenyl	119%		10-166%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS

SO

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JC75031

Client / Reporting Information

Company Name: Brown and Caldwell
Street Address: 2 Parkway Upper Saddle River ~~07458~~
City: Upper Saddle River State: NJ Zip: 07458
Project Contact: Karina Tipton E-mail: KTipton@brwncald.com
Phone #: 201-574-4719 Fax #:
Sampler(s) Name(s): Adam Gutta Phone #: 5187299363

Project Information

Project Name: BC Utica Excavation, NY
Project #: 151012
Client Purchase Order #: 151012.700
Project Manager: Karina Tipton

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

P8082PCB11

Matrix Codes: ~~DW - Drinking Water~~, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB-Field Blank, EB-Equipment Blank, RB- Rinse Blank, TB-Trip Blank

Lab Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
1	SS7-EX-1		10/1/18	12:55	AG	SO	1									1
2	SS7-EX-2		10/1/18	13:00	AG	SO	1									1
3	SS7-EX-6		10/1/18	12:50	AG	SO	1									1
4	SS7-EX-7		10/1/18	12:51	AG	SO	1									1
5	SS7-EX-DUP-100118		10/1/18	99:99	AG	SO	1									1
2	~~5~~ MS-100118		10/1/18	11:11	AG	SO	1									1
	~~MS~~ MSD-100118		10/1/18	11:11	AG	SO	1									1

C4OT3

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [x] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Approved by (SGS Project Manager)/Date:

INITIAL ASESSMENT 3B DM

LABEL VERIFICATION

Emergency & Rush T/A data available via LabLink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format
- [ ] Other

Commercial "A" = Results Only; Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

1 Relinquished by Sampler: Adam Gutta	Date Time: 10/1/18 15:05	Received By: 1	2 Relinquished By:	10/1/18 17:30 Date Time:	Received By: 2 FX
3 Relinquished by Sampler: FX	Date Time: 10/2/18 9:30	Received By: 3	4 Relinquished By:	Date Time:	Received By: 4
5 Relinquished by:	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☑ Cooler Temp. 2.3c

Form:SM088-03C (revised 2/12/18)

http://www.sgs.com/en/terms-and-conditions.

SGS Sample Receipt Summary

Job Number: JC75031 **Client:** BROWN AND CALDWELL **Project:** BC UTICA EXCAVATION, NY

Date / Time Received: 10/2/2018 9:30:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (1.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 216017 pH 12+: 208717 Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JC75031: Chain of Custody
Page 2 of 2

Sample Summary

Brown and Caldwell

Job No: JC75114

BC Utica Excavation, NY
Project No: 151012.700

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC75114-1	10/02/18	11:45	AG	10/03/18	SO	Soil	SS7-EX-3
JC75114-2	10/02/18	11:50	AG	10/03/18	SO	Soil	SS7-EX-4
JC75114-3	10/02/18	11:55	AG	10/03/18	SO	Soil	SS7-EX-5

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID:	SS7-EX-3		
Lab Sample ID:	JC75114-1	**Date Sampled:**	10/02/18
Matrix:	SO - Soil	**Date Received:**	10/03/18
Method:	SW846 8082A SW846 3546	**Percent Solids:**	91.2
Project:	BC Utica Excavation, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G82942.D	1	10/04/18 12:37	TR	10/03/18 17:30	OP15598	G5G1963
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	15	ug/kg	
11104-28-2	Aroclor 1221	ND	37	15	ug/kg	
11141-16-5	Aroclor 1232	ND	37	9.8	ug/kg	
53469-21-9	Aroclor 1242	ND	37	5.8	ug/kg	
12672-29-6	Aroclor 1248	ND	37	21	ug/kg	
11097-69-1	Aroclor 1254	ND	37	9.0	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	5.4	ug/kg	
37324-23-5	Aroclor 1262	ND	37	2.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		24-152%
877-09-8	Tetrachloro-m-xylene	111%		24-152%
2051-24-3	Decachlorobiphenyl	106%		10-166%
2051-24-3	Decachlorobiphenyl	90%		10-166%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS7-EX-4		
Lab Sample ID:	JC75114-2	**Date Sampled:**	10/02/18
Matrix:	SO - Soil	**Date Received:**	10/03/18
Method:	SW846 8082A SW846 3546	**Percent Solids:**	88.9
Project:	BC Utica Excavation, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G82943.D	1	10/04/18 13:09	TR	10/03/18 17:30	OP15598	G5G1963
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	15	ug/kg	
11104-28-2	Aroclor 1221	ND	37	15	ug/kg	
11141-16-5	Aroclor 1232	ND	37	9.9	ug/kg	
53469-21-9	Aroclor 1242	ND	37	5.9	ug/kg	
12672-29-6	Aroclor 1248	ND	37	22	ug/kg	
11097-69-1	Aroclor 1254	1410	37	9.0	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	5.5	ug/kg	
37324-23-5	Aroclor 1262	ND	37	2.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	113%		24-152%
877-09-8	Tetrachloro-m-xylene	110%		24-152%
2051-24-3	Decachlorobiphenyl	99%		10-166%
2051-24-3	Decachlorobiphenyl	86%		10-166%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS7-EX-5		
Lab Sample ID:	JC75114-3	**Date Sampled:**	10/02/18
Matrix:	SO - Soil	**Date Received:**	10/03/18
Method:	SW846 8082A SW846 3546	**Percent Solids:**	89.0
Project:	BC Utica Excavation, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G82944.D	1	10/04/18 13:42	TR	10/03/18 17:30	OP15598	G5G1963
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	15	ug/kg	
11104-28-2	Aroclor 1221	ND	37	15	ug/kg	
11141-16-5	Aroclor 1232	ND	37	9.8	ug/kg	
53469-21-9	Aroclor 1242	ND	37	5.8	ug/kg	
12672-29-6	Aroclor 1248	ND	37	22	ug/kg	
11097-69-1	Aroclor 1254	446	37	9.0	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	5.5	ug/kg	
37324-23-5	Aroclor 1262	ND	37	2.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	113%		24-152%
877-09-8	Tetrachloro-m-xylene	116%		24-152%
2051-24-3	Decachlorobiphenyl	107%		10-166%
2051-24-3	Decachlorobiphenyl	91%		10-166%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JC75114

Client / Reporting Information

Company Name: Brown and Caldwell
Street Address: 2 Park Way
City: Upper Saddle River State: NJ Zip: 07458
Project Contact: Karena Tipton E-mail: KTipton@brwncald.com
Phone #: 201 574 4719 Fax #:
Sampler(s) Name(s): Adam Gutta Phone #: 518 729 9363

Project Information

Project Name: BC Utica Excavation, NY
Street: 525 French Rd
City: Utica State: NY
Project #: 151012
Client Purchase Order #: 151012.700
Project Manager: Karena Tipton

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

PCB082 PCB11

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Lab Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE		LAB USE ONLY
1	SS7-EX-3		10/2/18	11:45	AG	SO	1									1	
2	SS7-EX-4		10/2/18	11:50	AG	SO	1									1	
3	SS7-EX-5		10/2/18	11:55	AG	SO	1									1	C40 Tm

INITIAL ASESSMENT 3B DW
LABEL VERIFICATION

Turnaround Time (Business days)

Approved by (SGS Project Manager)/Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [x] 1 Day RUSH
- [ ] other

Emergency & Rush T/A data available via LabLink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format
- [ ] Other

Commercial "A" = Results Only; Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

ACCUTEST

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Mr. Geoff Adam Gutta	10/2/18 14:10	1	2	10/2/18 14:00	2 FX
3	Relinquished by Sampler: FX	10/3/18 9:45	3	4	Date Time:	4
5	Relinquished by:	Data Time:	5	Custody Seal #	Intact / Not intact	Preserved where applicable: On Ice: Cooler Temp. 1.5C

Form:SM088-03C (revised 2/12/18)

http://www.sgs.com/en/terms-and-conditions.

SGS Sample Receipt Summary

Job Number: JC75114 **Client:** BROWN AND CALDWELL **Project:** BC UTICA EXCAVATION, NY

Date / Time Received: 10/3/2018 9:45:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (1.5);

Cooler Temps (Corrected) °C: Cooler 1: (0.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 216017 pH 12+: 208717 Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Appendix F—Waste Disposal Documentation

NATIONAL RESPONSE COPORATION

6392 Deere Road
Syracuse, NY 13206
Ph: 201-341-9001

LETTER OF TRANSMITTAL

Date:	19-Oct-18
NRC Project No.	117256
B&C Project No.	
Attention:	Adam Gutta, P.E.
RE:	Former Lockheed Martin French Road Facility Remediation

TO: Brown and Caldwell
2 Park Way
Sutie 2A
Upper Saddle River, NJ 07458

Transmittal No.: **009**

WE ARE SENDING YOU: [X] Attached [ ] Under a separate cover via_____The following items:

[ ] Shop Drawings [ ] Change Order [ ] Prints [ ] Plans [ ] Specifications

[ ] Copy of Letter [ ] Samples [ ] Contract [ ] _____

COPIES	DATE	PAGES	DESCRIPTION
1	10/19/2018	2	NRC - 2018 Non-Hazardous Soils Tonnage Report

THESE ARE TRANSMITTED as checked below:

[X] For Approval [ ] Resubmit_____Copies for Approval [ ] Approved as Submitted

[ ] For Your Use [ ] Resubmit _____Copies for distribution [ ] Approved as Noted

[ ] As Requested [ ] Return ____ Corrected Prints [ ] Returned for Corrections

[ ] For Review and Comment [ ] _____ [ ] FOR BIDS DUE_____20__

Remarks:

Specification: 31 70 00 Waste Management, Transportation, and Disposal

Adam,

Attached for your review is a tonnage report for non-hazardous soils shipped off-site to the Oneida-Herkimer facility in Ava, NY.

Certification Statement: by this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.

Signed: 

Zakary Arnhold, Project Controls Specialist

Former LMC French Road Facility
Non-Hazardous Soils
Tonnage Report

Date Range 9/1/2018 to 10/19/2018
Customer Range 946 to 946
Order Range to TEST
Weights Reported in Tons
Profile Number: CS091802

Oneida-Herkimer Solid Waste

Customer Usage

Ticket			Material		
Date	**Number**	**Truck ID**	**Material ID**	**Unit**	**Net**
Customer: 946					
2018 - 2018 CONTRACT PRICING Totals					
9/28/2018	2643489	862.1/	CSRLF	0.00 tn	16.62 tn
9/28/2018	2643611	862.1/	CSRLF	0.00 tn	22.81 tn
9/28/2018	2643679	862.1/	CSRLF	0.00 tn	13.72 tn
10/1/2018	2644391	862.1/	CSRLF	0.00 tn	17.72 tn
10/1/2018	2644625	862.1/	CSRLF	0.00 tn	23.01 tn
10/2/2018	2644962	862.1/	CSRLF	0.00 tn	17.59 tn
10/2/2018	2645137	862.1/	CSRLF	0.00 tn	15.93 tn
Material : CSRLF - Totals:				**0.00 tn**	**127.40 tn**
Total Tickets: 7					
Order: 2018 - 2018 CONTRACT PRICING Totals					**127.40 tn**
Total Tickets: 7					
Customer: 946 - OP-TECH ENVIROMENTAL SERVICES Totals					**127.40 tn**
Total Tickets: 7					
Grand Totals					**127.40 tn**
Total Tickets: 7					

Appendix G—Import Fill Documentation

Karina Tipton

From: Squire, Michael H (DEC) <Michael.Squire@dec.ny.gov>
Sent: Monday, September 24, 2018 11:51 AM
To: Karina Tipton
Subject: RE: Utica excavation - import fill request forms

I don't have any comments or concerns with the top soil or coarse aggregate sources.

Michael

From: Karina Tipton [mailto:KTipton@BrwnCald.com]
Sent: Monday, September 24, 2018 11:30 AM
To: Squire, Michael H (DEC) <Michael.Squire@dec.ny.gov>
Cc: Glenda B Clark (US) (glenda.b.clark@lmco.com) <glenda.b.clark@lmco.com>
Subject: RE: Utica excavation - import fill request forms

Hi Michael,

Just following up on this. I have asked our contractor to collect another sample for the granular material.

Do you have any comments or concerns about the top soil source or the coarse aggregate?

Thanks,
Karina

From: Karina Tipton
Sent: Friday, September 21, 2018 12:06 PM
To: Squire, Michael H (DEC) <Michael.Squire@dec.ny.gov>
Subject: RE: Utica excavation - import fill request forms

Hi Michael,

We checked with the laboratory and their blank value is 9.03 mg/kg. They do not believe that blank contamination is the cause of the elevated copper concentration. However, the fill source is a NYS approved virgin mine source.

Please let know if you have any more questions. I appreciate your quick attention to this!

Karina

From: Squire, Michael H (DEC) <Michael.Squire@dec.ny.gov>
Sent: Thursday, September 20, 2018 10:48 AM
To: Karina Tipton <KTipton@BrwnCald.com>
Subject: RE: Utica excavation - import fill request forms

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Unrestricted

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 50-100

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

N/A

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

N/A

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

R. Scott Rommel, Managing Member

Location where fill was obtained:

Poland Sand and Gravel, LLC.

Identification of any state or local approvals as a fill source:

D-51F and D-51G

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Gradation test results (page 4 of PDF) and source documentation letter (page 5 of PDF).

The information provided on this form is accurate and complete.

9/18/18

Date

Karina J. Tipton

Print Name

Brown and Caldwell

Firm

Poland Sand & Gravel **Test Result**
Route 28, Poland, NY 13431

Sampled By: B.Sw	**Tested By:** P.R.
Sample date: 11/3/2017	**Test Date:** 11/3/2017
Sample Number: 2c171102	**Test Number:** 2c171102

Product Description: #2 Crushed Stone

MOISTURE TEST	WASH TEST
Wet Weight (A)	**Dry-wt. Orig.sample (A)**
Dry Weight (B)	**Dry-wt after wash (B)**
Weight of Water (A-B)	**Wt.-200 material (A-B)**
%Moisture((A-B)/Bx100)	**% -200 material ((A-B)/A*100)**

Gradation Test

sieve size			%	Specification	
in	in	mm	Passing	*(low)*	*(high)*
1 1/2"	**1.500**	**37.500**	100.0%	***100%***	
1"	**1.000**	**25.000**	100.0%	***90%***	***100%***
1/2"	**0.500**	**12.700**	20.0%	***0%***	***15%***
1/4"	**0.250**	**6.350**	0.7%		
1/8"	**0.123**	**3.180**	0.7%		
#80	**0.007**	**0.178**	0.6%		
#200	**0.003**	**0.074**	0.4%	***0%***	***1.0%***
		PAN			

Coef of Uniformity (CU):

Effective Size (D10):

Remarks:

I attest that the above is a true and correct representation of the sample as presented and tested.

POLAND SAND & GRAVEL LLC
PO BOX 83, POLAND, NY 13431
ph 315-826-3761 fax 351-826-3755
www.polandsandandgravel.com

May 9, 2018

To Whom It May Concern:

Poland Sand & Gravel, LLC's mine located at 8694 South Main St, (NYS Rte. 28) Poland, NY is an approved producer for Fine aggregate and Coarse Aggregate by NYS DOT. It's designated source number is 2-51F and 2-51G, respectively. Our products are continually monitored for quality and meet or exceeded industry standards.

The mine is approved for extraction and sale of materials by NYS DEC.

Mine ID**: 60729** Company Name: PSG Realty, LLC

Status: Active Mine Name: PSG Poland Pit

County: Herkimer Town: Newport

Materials extracted from this mine location has been tested for contamination and has been approved for use.

We attest that all materials delivered from this mine site will be in compliance with NYS DEC standards.

If we may be of further assistance, please feel free to contact me at (315)826-3761.

Sincerely,

R. Scott Rommel

Managing Member

Poland Sand & Gravel, LLC

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Unrestricted

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 0-50

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? no

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

1 discrete sample was collected and analyzed for total metals, PCBs, Pesticides, VOCs, and SVOCs.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Sample analytical results are attached.
All parameters were reported at concentration below their unrestricted use allowable concentrations.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Weakley Sand & Gravel

Location where fill was obtained:

8968 N Main St, Poland, NY 13431

Identification of any state or local approvals as a fill source:

FOLNSBEE PIT 7937

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Analytical testing results (page 4 -9 of PDF)

The information provided on this form is accurate and complete.

9/18/18
Date

Karina J. Tipton
Print Name

Brown and Caldwell
Firm

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 23, 2018

FOR: Mr. Todd Scott
National Resource Corp
3851 Western Tpk.
Duanesburg, NY 12056

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/18/18	13:00
Location Code:	NRC	Received by:	SW	05/18/18	9:59
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	123289.12				

Laboratory Data

SDG ID: GCA50176
Phoenix ID: CA50176

Project ID:
Client ID: WEAKLEY - TOPSOIL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.40	0.40		mg/Kg	1	05/22/18	MA	SW6010C	
Arsenic	2.41	0.80		mg/Kg	1	05/22/18	MA	SW6010C	
Beryllium	0.55	0.32		mg/Kg	1	05/22/18	MA	SW6010C	
Cadmium	< 0.40	0.40		mg/Kg	1	05/22/18	MA	SW6010C	
Chromium	7.52	0.40		mg/Kg	1	05/22/18	MA	SW6010C	
Copper	7.62	0.40		mg/kg	1	05/22/18	MA	SW6010C	
Mercury	< 0.03	0.03		mg/Kg	1	05/22/18	RS	SW7471B	
Manganese	428	4.0		mg/Kg	10	05/22/18	MA	SW6010C	
Nickel	7.11	0.40		mg/Kg	1	05/22/18	MA	SW6010C	
Lead	5.13	0.40		mg/Kg	1	05/22/18	MA	SW6010C	
Trivalent Chromium	7.52	0.40		mg/kg	1			CALC 6010-7196	
Zinc	40.7	0.40		mg/Kg	1	05/22/18	MA	SW6010C	
Percent Solid	87			%		05/21/18	Q	SW846-%Solid	
Corrosivity	Negative			Pos/Neg	1	05/21/18	O	SW846-Corr	1
Chromium, Hex. (SW3060 digestion)	< 0.46	0.46		mg/Kg	1	05/23/18	KMH	SW7196A	
pH at 25C - Soil	7.75	1.00		pH Units	1	05/21/18 20:42	O	SW9045	1
Redox Potential	15.8			mV	1	05/21/18	O	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.57	0.57		mg/Kg	1	05/23/18	O/GD	SW9012B	
Tot.Org.Carbon	23000	100		mg/kg	1	05/22/18	H	SW9060A/L. Kahn	
Soil Extraction for PCB	Completed					05/21/18	CA/V	SW3545A	
Soil Extraction for Pesticides	Completed					05/21/18	CA/V	SW3545A	
Soil Extraction for SVOA	Completed					05/21/18	BA/CKV	SW3545A	
Mercury Digestion	Completed					05/22/18	I/W/I	SW7471B	
Total Metals Digest	Completed					05/21/18	L/AG	SW3050B	
Tot.Org.Carbon Preparation	Completed					05/21/18	KMH		

Polychlorinated Biphenyls

PCB-1016	ND	74	74	ug/Kg	2	05/22/18	AW	SW8082A	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
PCB-1221	ND	74	74	ug/Kg	2	05/22/18	AW	SW8082A
PCB-1232	ND	74	74	ug/Kg	2	05/22/18	AW	SW8082A
PCB-1242	ND	74	74	ug/Kg	2	05/22/18	AW	SW8082A
PCB-1248	ND	74	74	ug/Kg	2	05/22/18	AW	SW8082A
PCB-1254	ND	74	74	ug/Kg	2	05/22/18	AW	SW8082A
PCB-1260	ND	74	74	ug/Kg	2	05/22/18	AW	SW8082A
PCB-1262	ND	74	74	ug/Kg	2	05/22/18	AW	SW8082A
PCB-1268	ND	74	74	ug/Kg	2	05/22/18	AW	SW8082A
QA/QC Surrogates								
% DCBP	78			%	2	05/22/18	AW	30 - 150 %
% TCMX	69			%	2	05/22/18	AW	30 - 150 %
Pesticides - Soil								
4,4' -DDD	ND	2.2		ug/Kg	2	05/22/18	CW	SW8081B
4,4' -DDE	ND	2.2		ug/Kg	2	05/22/18	CW	SW8081B
4,4' -DDT	ND	2.2		ug/Kg	2	05/22/18	CW	SW8081B
a-BHC	ND	7.4		ug/Kg	2	05/22/18	CW	SW8081B
a-Chlordane	ND	3.7		ug/Kg	2	05/22/18	CW	SW8081B
Aldrin	ND	3.7		ug/Kg	2	05/22/18	CW	SW8081B
b-BHC	ND	7.4		ug/Kg	2	05/22/18	CW	SW8081B
Chlordane	ND	37		ug/Kg	2	05/22/18	CW	SW8081B
d-BHC	ND	7.4		ug/Kg	2	05/22/18	CW	SW8081B
Dieldrin	ND	3.7		ug/Kg	2	05/22/18	CW	SW8081B
Endosulfan I	ND	7.4		ug/Kg	2	05/22/18	CW	SW8081B
Endosulfan II	ND	7.4		ug/Kg	2	05/22/18	CW	SW8081B
Endosulfan sulfate	ND	7.4		ug/Kg	2	05/22/18	CW	SW8081B
Endrin	ND	7.4		ug/Kg	2	05/22/18	CW	SW8081B
Endrin aldehyde	ND	7.4		ug/Kg	2	05/22/18	CW	SW8081B
Endrin ketone	ND	7.4		ug/Kg	2	05/22/18	CW	SW8081B
g-BHC	ND	1.5		ug/Kg	2	05/22/18	CW	SW8081B
g-Chlordane	ND	3.7		ug/Kg	2	05/22/18	CW	SW8081B
Heptachlor	ND	7.4		ug/Kg	2	05/22/18	CW	SW8081B
Heptachlor epoxide	ND	7.4		ug/Kg	2	05/22/18	CW	SW8081B
Methoxychlor	ND	37		ug/Kg	2	05/22/18	CW	SW8081B
Toxaphene	ND	150		ug/Kg	2	05/22/18	CW	SW8081B
QA/QC Surrogates								
% DCBP	72			%	2	05/22/18	CW	30 - 150 %
% TCMX	58			%	2	05/22/18	CW	30 - 150 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C
1,1-Dichloropropene	ND	5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C

Client ID: WEAKLEY - TOPSOIL

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,2,4-Trimethylbenzene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
1,2-Dibromoethane	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
1,2-Dichloroethane	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
1,2-Dichloropropane	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
1,3-Dichloropropane	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
2,2-Dichloropropane	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
2-Chlorotoluene	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
2-Hexanone	ND		28	5.7	ug/Kg	1	05/22/18	JLI	SW8260C	
2-Isopropyltoluene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	1
4-Chlorotoluene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		28	5.7	ug/Kg	1	05/22/18	JLI	SW8260C	
Acetone	10	JS	28	5.7	ug/Kg	1	05/22/18	JLI	SW8260C	
Acrylonitrile	ND		11	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
Benzene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Bromobenzene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Bromochloromethane	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Bromodichloromethane	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
Bromoform	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
Bromomethane	ND		5.7	2.3	ug/Kg	1	05/22/18	JLI	SW8260C	
Carbon Disulfide	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
Carbon tetrachloride	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
Chlorobenzene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Chloroethane	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Chloroform	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Chloromethane	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Dibromochloromethane	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
Dibromomethane	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Ethylbenzene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Hexachlorobutadiene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Isopropylbenzene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
m&p-Xylene	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND		34	5.7	ug/Kg	1	05/22/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		11	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
Methylene chloride	ND		5.7	5.7	ug/Kg	1	05/22/18	JLI	SW8260C	
Naphthalene	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
n-Butylbenzene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
n-Propylbenzene	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
o-Xylene	ND		5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
p-Isopropyltoluene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
sec-Butylbenzene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Styrene	ND		5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
tert-Butylbenzene	ND	5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Tetrachloroethene	ND	5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	11	2.8	ug/Kg	1	05/22/18	JLI	SW8260C	1
Toluene	ND	5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	11	2.8	ug/Kg	1	05/22/18	JLI	SW8260C	
Trichloroethene	ND	5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Trichlorofluoromethane	ND	5.7	1.1	ug/Kg	1	05/22/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND	5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
Vinyl chloride	ND	5.7	0.57	ug/Kg	1	05/22/18	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	97			%	1	05/22/18	JLI	70 - 130 %	
% Bromofluorobenzene	89			%	1	05/22/18	JLI	70 - 130 %	
% Dibromofluoromethane	98			%	1	05/22/18	JLI	70 - 130 %	
% Toluene-d8	96			%	1	05/22/18	JLI	70 - 130 %	
Volatile Library Search	Completed					05/22/18	JLI		1

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	05/21/18	DD	SW8270D	
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D	
1,2-Dichlorobenzene	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D	
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	05/21/18	DD	SW8270D	
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D	
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D	
2,4,5-Trichlorophenol	ND	260	210	ug/Kg	1	05/21/18	DD	SW8270D	
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	05/21/18	DD	SW8270D	
2,4-Dichlorophenol	ND	190	130	ug/Kg	1	05/21/18	DD	SW8270D	
2,4-Dimethylphenol	ND	260	93	ug/Kg	1	05/21/18	DD	SW8270D	
2,4-Dinitrophenol	ND	260	260	ug/Kg	1	05/21/18	DD	SW8270D	
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	05/21/18	DD	SW8270D	
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	05/21/18	DD	SW8270D	
2-Chloronaphthalene	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D	
2-Chlorophenol	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D	
2-Methylnaphthalene	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D	
2-Methylphenol (o-cresol)	ND	260	180	ug/Kg	1	05/21/18	DD	SW8270D	
2-Nitroaniline	ND	260	260	ug/Kg	1	05/21/18	DD	SW8270D	
2-Nitrophenol	ND	260	240	ug/Kg	1	05/21/18	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	260	150	ug/Kg	1	05/21/18	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	05/21/18	DD	SW8270D	
3-Nitroaniline	ND	370	750	ug/Kg	1	05/21/18	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	220	75	ug/Kg	1	05/21/18	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D	
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	05/21/18	DD	SW8270D	
4-Chloroaniline	ND	300	170	ug/Kg	1	05/21/18	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	260	130	ug/Kg	1	05/21/18	DD	SW8270D	
4-Nitroaniline	ND	370	130	ug/Kg	1	05/21/18	DD	SW8270D	
4-Nitrophenol	ND	370	170	ug/Kg	1	05/21/18	DD	SW8270D	
Acenaphthene	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D	

Client ID: WEAKLEY - TOPSOIL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Acenaphthylene	ND	260	100	ug/Kg	1	05/21/18	DD	SW8270D
Acetophenone	ND	260	120	ug/Kg	1	05/21/18	DD	SW8270D
Aniline	ND	300	300	ug/Kg	1	05/21/18	DD	SW8270D
Anthracene	ND	260	120	ug/Kg	1	05/21/18	DD	SW8270D
Benz(a)anthracene	ND	260	130	ug/Kg	1	05/21/18	DD	SW8270D
Benzidine	ND	370	220	ug/Kg	1	05/21/18	DD	SW8270D
Benzo(a)pyrene	ND	190	120	ug/Kg	1	05/21/18	DD	SW8270D
Benzo(b)fluoranthene	ND	260	130	ug/Kg	1	05/21/18	DD	SW8270D
Benzo(ghi)perylene	ND	260	120	ug/Kg	1	05/21/18	DD	SW8270D
Benzo(k)fluoranthene	ND	260	120	ug/Kg	1	05/21/18	DD	SW8270D
Benzoic acid	ND	1900	750	ug/Kg	1	05/21/18	DD	SW8270D
Benzyl butyl phthalate	ND	260	97	ug/Kg	1	05/21/18	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	05/21/18	DD	SW8270D
Bis(2-chloroethyl)ether	ND	190	100	ug/Kg	1	05/21/18	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	05/21/18	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D
Carbazole	ND	190	150	ug/Kg	1	05/21/18	DD	SW8270D
Chrysene	ND	260	130	ug/Kg	1	05/21/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	190	120	ug/Kg	1	05/21/18	DD	SW8270D
Dibenzofuran	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	05/21/18	DD	SW8270D
Dimethylphthalate	ND	260	120	ug/Kg	1	05/21/18	DD	SW8270D
Di-n-butylphthalate	ND	260	100	ug/Kg	1	05/21/18	DD	SW8270D
Di-n-octylphthalate	ND	260	97	ug/Kg	1	05/21/18	DD	SW8270D
Fluoranthene	ND	260	120	ug/Kg	1	05/21/18	DD	SW8270D
Fluorene	ND	260	120	ug/Kg	1	05/21/18	DD	SW8270D
Hexachlorobenzene	ND	190	110	ug/Kg	1	05/21/18	DD	SW8270D
Hexachlorobutadiene	ND	260	140	ug/Kg	1	05/21/18	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D
Hexachloroethane	ND	190	110	ug/Kg	1	05/21/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	120	ug/Kg	1	05/21/18	DD	SW8270D
Isophorone	ND	190	100	ug/Kg	1	05/21/18	DD	SW8270D
Naphthalene	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D
Nitrobenzene	ND	190	130	ug/Kg	1	05/21/18	DD	SW8270D
N-Nitrosodimethylamine	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	190	120	ug/Kg	1	05/21/18	DD	SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	05/21/18	DD	SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	05/21/18	DD	SW8270D
Pentachlorophenol	ND	220	140	ug/Kg	1	05/21/18	DD	SW8270D
Phenanthrene	ND	260	110	ug/Kg	1	05/21/18	DD	SW8270D
Phenol	ND	260	120	ug/Kg	1	05/21/18	DD	SW8270D
Pyrene	ND	260	130	ug/Kg	1	05/21/18	DD	SW8270D
Pyridine	ND	260	92	ug/Kg	1	05/21/18	DD	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	81			%	1	05/21/18	DD	30 - 130 %
% 2-Fluorobiphenyl	73			%	1	05/21/18	DD	30 - 130 %
% 2-Fluorophenol	56			%	1	05/21/18	DD	30 - 130 %
% Nitrobenzene-d5	68			%	1	05/21/18	DD	30 - 130 %
% Phenol-d5	66			%	1	05/21/18	DD	30 - 130 %

Client ID: WEAKLEY - TOPSOIL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Terphenyl-d14	78			%	1	05/21/18	DD	30 - 130 %	
Semivolatile Library Search	Completed					05/22/18	DD		1
Field Extraction	Completed					05/18/18		SW5035A	1

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Corrosivity is based solely on the pH analysis performed above.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

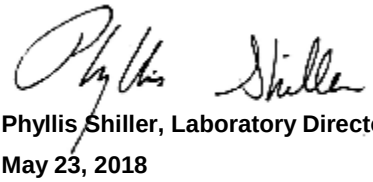
Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.



Phyllis Shiller, Laboratory Director
May 23, 2018
Official Report Release To Follow

Karina Tipton

From: Squire, Michael H (DEC) <Michael.Squire@dec.ny.gov>
Sent: Thursday, September 27, 2018 10:05 AM
To: Karina Tipton
Cc: Glenda B Clark (US) (glenda.b.clark@lmco.com); Erika L. Parsons (parsonsel@cdmsmith.com); James H. Zigmont (zigmontjh@cdmsmith.com); Adam Gutta; Giaudrone, Dominic; Rosenzweig, Eric
Subject: RE: Utica NY - Revised request to import granular fill

Karina,

Using the earlier sample and the revised request are acceptable since all parameters meet unrestricted use.

Thanks,
Michael

From: Karina Tipton [mailto:KTipton@BrwnCald.com]
Sent: Thursday, September 27, 2018 9:25 AM
To: Squire, Michael H (DEC) <Michael.Squire@dec.ny.gov>
Cc: Glenda B Clark (US) (glenda.b.clark@lmco.com) <glenda.b.clark@lmco.com>; Erika L. Parsons (parsonsel@cdmsmith.com) <parsonsel@cdmsmith.com>; James H. Zigmont (zigmontjh@cdmsmith.com) <zigmontjh@cdmsmith.com>; Adam Gutta <agutta@BrwnCald.com>; Giaudrone, Dominic <GiaudroneDJ@cdmsmith.com>; Rosenzweig, Eric <RosenzweigES@cdmsmith.com>
Subject: Utica NY - Revised request to import granular fill

Hi Michael,

Please find attached a revised request to import granular fill. We are not going to use the material that was sampled previously with the elevated copper concentration, and we have collected additional samples from the same supplier to increase the acceptable and available volume for use at the site. I will submit those data as soon as they are available. In the interim, we are requesting that we proceed with the first 300 yards of fill material sampled by the earlier sample which met all NYS standards for unrestricted use.

Please let us know if this is accepted. We will be using this material in the shallow excavations as backfill.

Thanks,
Karina

Karina J. Tipton, P.E., LEED AP
Brown and Caldwell
KTipton@brwncald.com
T 201.574.4719 | **C** 646.321.3111

Brown AND Caldwell

Professional Registration in Specific States

Please use my dropbox to transmit large files

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Unrestricted

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 200-300

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

4 discrete samples were collected and analyzed for VOCs. 1 composite sample was collected and analyzed for total metals, PCBs, Pesticides, and SVOCs.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

All parameters were reported at concentrations below their unrestricted use allowable concentrations.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Poland Sand and Gravel

Location where fill was obtained:

Route 28, Poland, NY, 13431

Identification of any state or local approvals as a fill source:

NYSDEC Mine ID = 60729

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Analytical testing results (page 4-19 of PDF), particle size analysis result (page 20 of PDF)

The information provided on this form is accurate and complete.

8/27/18

Date

Karina J Tipton

Print Name

Brown and Caldwell

Firm

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

July 17, 2018

FOR: Attn: Danielle Benati
NRC Environmental Services
63 Trade Road Bldg #4
Massena, NY 13662

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/12/18	
Location Code:	NRC-NY	Received by:	CP	07/14/18	10:45
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	126352				

Laboratory Data

SDG ID: GCA90286
Phoenix ID: CA90286

Project ID:
Client ID: WSG/BRG- G1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		07/16/18	Q	SW846-%Solid
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
2-Hexanone	ND	30	ug/kg	1	07/16/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/kg	1	07/16/18	JLI	SW8260C
Acetone	ND	59	ug/kg	1	07/16/18	JLI	SW8260C
Benzene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Bromochloromethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Bromodichloromethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Bromoform	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Bromomethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Carbon Disulfide	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Carbon tetrachloride	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Chlorobenzene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C

Client ID: WSG/BRG- G1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Chloroform	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Chloromethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Cyclohexane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Dibromochloromethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Ethylbenzene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Isopropylbenzene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
m&p-Xylene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Methyl ethyl ketone	ND	35	ug/kg	1	07/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	1	07/16/18	JLI	SW8260C
Methylacetate	ND	4.7	ug/kg	1	07/16/18	JLI	SW8260C
Methylcyclohexane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Methylene chloride	ND	30	ug/kg	1	07/16/18	JLI	SW8260C
o-Xylene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Styrene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Tetrachloroethene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Toluene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Total Xylenes	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Trichloroethene	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
Vinyl chloride	ND	5.9	ug/kg	1	07/16/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	07/16/18	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	07/16/18	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	07/16/18	JLI	70 - 130 %
% Toluene-d8	103		%	1	07/16/18	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	89	ug/kg	1	07/16/18	JLI	SW8260C

Client ID: WSG/BRG- G1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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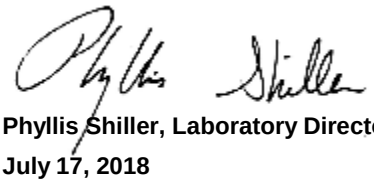

Phyllis Shiller, Laboratory Director
July 17, 2018
Official Report Release To Follow

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

July 17, 2018

FOR: Attn: Danielle Benati
NRC Environmental Services
63 Trade Road Bldg #4
Massena, NY 13662

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/12/18	
Location Code:	NRC-NY	Received by:	CP	07/14/18	10:45
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	126352				

Laboratory Data

SDG ID: GCA90286
Phoenix ID: CA90287

Project ID:
Client ID: WSG/BRG- G2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		07/16/18	Q	SW846-%Solid
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
2-Hexanone	ND	32	ug/kg	1	07/16/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	32	ug/kg	1	07/16/18	JLI	SW8260C
Acetone	ND	64	ug/kg	1	07/16/18	JLI	SW8260C
Benzene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Bromochloromethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Bromodichloromethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Bromoform	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Bromomethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Carbon Disulfide	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Carbon tetrachloride	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Chlorobenzene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C

Client ID: WSG/BRG- G2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Chloroform	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Chloromethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Cyclohexane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Dibromochloromethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Ethylbenzene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Isopropylbenzene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
m&p-Xylene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Methyl ethyl ketone	ND	39	ug/kg	1	07/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/kg	1	07/16/18	JLI	SW8260C
Methylacetate	ND	5.1	ug/kg	1	07/16/18	JLI	SW8260C
Methylcyclohexane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Methylene chloride	ND	32	ug/kg	1	07/16/18	JLI	SW8260C
o-Xylene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Styrene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Tetrachloroethene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Toluene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Total Xylenes	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Trichloroethene	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
Vinyl chloride	ND	6.4	ug/kg	1	07/16/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	07/16/18	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	07/16/18	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	07/16/18	JLI	70 - 130 %
% Toluene-d8	102		%	1	07/16/18	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	96	ug/kg	1	07/16/18	JLI	SW8260C

Client ID: WSG/BRG- G2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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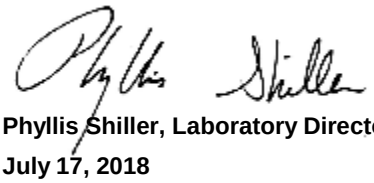

Phyllis Shiller, Laboratory Director
July 17, 2018
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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

July 17, 2018

FOR: Attn: Danielle Benati
NRC Environmental Services
63 Trade Road Bldg #4
Massena, NY 13662

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/12/18	
Location Code:	NRC-NY	Received by:	CP	07/14/18	10:45
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	126352				

Laboratory Data

SDG ID: GCA90286
Phoenix ID: CA90288

Project ID:
Client ID: WSG/BRG- G3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		07/16/18	Q	SW846-%Solid
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
2-Hexanone	ND	27	ug/kg	1	07/16/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/kg	1	07/16/18	JLI	SW8260C
Acetone	ND	55	ug/kg	1	07/16/18	JLI	SW8260C
Benzene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Bromochloromethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Bromodichloromethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Bromoform	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Bromomethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Carbon Disulfide	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Carbon tetrachloride	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Chlorobenzene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C

Client ID: WSG/BRG- G3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Chloroform	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Chloromethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Cyclohexane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Dibromochloromethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Ethylbenzene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Isopropylbenzene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
m&p-Xylene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Methyl ethyl ketone	ND	33	ug/kg	1	07/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	1	07/16/18	JLI	SW8260C
Methylacetate	ND	4.4	ug/kg	1	07/16/18	JLI	SW8260C
Methylcyclohexane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Methylene chloride	ND	27	ug/kg	1	07/16/18	JLI	SW8260C
o-Xylene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Styrene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Tetrachloroethene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Toluene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Total Xylenes	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Trichloroethene	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
Vinyl chloride	ND	5.5	ug/kg	1	07/16/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	07/16/18	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	07/16/18	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	07/16/18	JLI	70 - 130 %
% Toluene-d8	103		%	1	07/16/18	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	82	ug/kg	1	07/16/18	JLI	SW8260C

Client ID: WSG/BRG- G3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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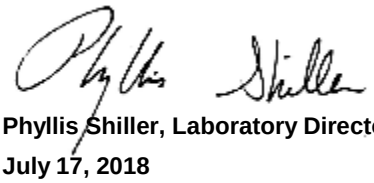

Phyllis Shiller, Laboratory Director
July 17, 2018
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Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

July 17, 2018

FOR: Attn: Danielle Benati
NRC Environmental Services
63 Trade Road Bldg #4
Massena, NY 13662

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/12/18	
Location Code:	NRC-NY	Received by:	CP	07/14/18	10:45
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	126352				

Laboratory Data

SDG ID: GCA90286
Phoenix ID: CA90289

Project ID:
Client ID: WSG/BRG- G4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		07/16/18	Q	SW846-%Solid
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
1,2-Dichloropropane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
2-Hexanone	ND	26	ug/kg	1	07/17/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/kg	1	07/17/18	JLI	SW8260C
Acetone	ND	52	ug/kg	1	07/17/18	JLI	SW8260C
Benzene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Bromochloromethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Bromodichloromethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Bromoform	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Bromomethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Carbon Disulfide	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Carbon tetrachloride	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Chlorobenzene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C

Client ID: WSG/BRG- G4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Chloroform	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Chloromethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Cyclohexane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Dibromochloromethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Ethylbenzene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Isopropylbenzene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
m&p-Xylene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Methyl ethyl ketone	ND	31	ug/kg	1	07/17/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/kg	1	07/17/18	JLI	SW8260C
Methylacetate	ND	4.1	ug/kg	1	07/17/18	JLI	SW8260C
Methylcyclohexane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Methylene chloride	ND	26	ug/kg	1	07/17/18	JLI	SW8260C
o-Xylene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Styrene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Tetrachloroethene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Toluene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Total Xylenes	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Trichloroethene	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
Vinyl chloride	ND	5.2	ug/kg	1	07/17/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	07/17/18	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	07/17/18	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	07/17/18	JLI	70 - 130 %
% Toluene-d8	103		%	1	07/17/18	JLI	70 - 130 %

1,4-dioxane

1,4-dioxane	ND	78	ug/kg	1	07/17/18	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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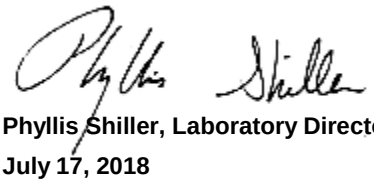


Phyllis Shiller, Laboratory Director
July 17, 2018
Official Report Release To Follow

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

July 17, 2018

FOR: Attn: Danielle Benati
NRC Environmental Services
63 Trade Road Bldg #4
Massena, NY 13662

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/12/18	
Location Code:	NRC-NY	Received by:	CP	07/14/18	10:45
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	126352				

Laboratory Data

SDG ID: GCA90286
Phoenix ID: CA90290

Project ID:
Client ID: WSG/BRG- COMP 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.34	0.34	mg/Kg	1	07/17/18	EK	SW6010C	
Arsenic	1.58	0.69	mg/Kg	1	07/17/18	EK	SW6010C	
Barium	12.3	0.34	mg/Kg	1	07/17/18	EK	SW6010C	
Beryllium	< 0.27	0.27	mg/Kg	1	07/17/18	EK	SW6010C	
Cadmium	< 0.34	0.34	mg/Kg	1	07/17/18	EK	SW6010C	
Chromium	4.68	0.34	mg/Kg	1	07/17/18	CPP	SW6010C	
Copper	6.73	0.34	mg/kg	1	07/17/18	EK	SW6010C	
Mercury	< 0.03	0.03	mg/Kg	1	07/17/18	RS	SW7471B	
Manganese	196	3.4	mg/Kg	10	07/17/18	PS	SW6010C	
Nickel	4.67	0.34	mg/Kg	1	07/17/18	EK	SW6010C	
Lead	2.45	0.34	mg/Kg	1	07/17/18	EK	SW6010C	
Selenium	< 1.4	1.4	mg/Kg	1	07/17/18	EK	SW6010C	
Trivalent Chromium	4.68	0.34	mg/kg	1			CALC 6010-7196	
Zinc	23.3	0.34	mg/Kg	1	07/17/18	EK	SW6010C	
Percent Solid	89		%		07/16/18	Q	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	< 0.45	0.45	mg/Kg	1	07/17/18	KMH	SW7196A	
pH at 25C - Soil	8.19	1.00	pH Units	1	07/16/18 21:28	O	SW9045	1
Redox Potential	170		mV	1	07/16/18	O	SM2580B-09	1
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	07/17/18	EG	SW9012B	
Soil Extraction for PCB	Completed				07/16/18	JA/V	SW3545A	
Soil Extraction for Pesticides	Completed				07/16/18	JA/V	SW3545A	
Soil Extraction for SVOA	Completed				07/16/18	JJ/V	SW3545A	
Mercury Digestion	Completed				07/17/18	I/I	SW7471B	
Total Metals Digest	Completed				07/16/18	T/AG	SW3050B	

Polychlorinated Biphenyls

PCB-1016	ND	370	ug/Kg	10	07/17/18	AW	SW8082A	
PCB-1221	ND	370	ug/Kg	10	07/17/18	AW	SW8082A	

Client ID: WSG/BRG- COMP 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1232	ND	370	ug/Kg	10	07/17/18	AW	SW8082A
PCB-1242	ND	370	ug/Kg	10	07/17/18	AW	SW8082A
PCB-1248	ND	370	ug/Kg	10	07/17/18	AW	SW8082A
PCB-1254	ND	370	ug/Kg	10	07/17/18	AW	SW8082A
PCB-1260	ND	370	ug/Kg	10	07/17/18	AW	SW8082A
PCB-1262	ND	370	ug/Kg	10	07/17/18	AW	SW8082A
PCB-1268	ND	370	ug/Kg	10	07/17/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	85		%	10	07/17/18	AW	30 - 150 %
% TCMX	77		%	10	07/17/18	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.2	ug/Kg	2	07/17/18	CW	SW8081B
4,4' -DDE	ND	2.2	ug/Kg	2	07/17/18	CW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	07/17/18	CW	SW8081B
a-BHC	ND	7.4	ug/Kg	2	07/17/18	CW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	07/17/18	CW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	07/17/18	CW	SW8081B
b-BHC	ND	7.4	ug/Kg	2	07/17/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	07/17/18	CW	SW8081B
d-BHC	ND	7.4	ug/Kg	2	07/17/18	CW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	07/17/18	CW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	07/17/18	CW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	07/17/18	CW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	07/17/18	CW	SW8081B
Endrin	ND	7.4	ug/Kg	2	07/17/18	CW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	07/17/18	CW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	07/17/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/17/18	CW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	07/17/18	CW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	07/17/18	CW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	07/17/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	07/17/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/17/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	75		%	2	07/17/18	CW	30 - 150 %
% TCMX	65		%	2	07/17/18	CW	30 - 150 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
1,2-Dichlorobenzene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
1,2-Diphenylhydrazine	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
1,3-Dichlorobenzene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
1,4-Dichlorobenzene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
2,4-Dinitrophenol	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D

Client ID: WSG/BRG- COMP 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrotoluene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
2-Nitroaniline	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
3-Nitroaniline	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
4-Nitroaniline	ND	590	ug/Kg	1	07/17/18	KCA	SW8270D
4-Nitrophenol	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Acetophenone	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Aniline	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
Anthracene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Benzidine	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Benzoic acid	ND	740	ug/Kg	1	07/17/18	KCA	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Carbazole	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
Chrysene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Di-n-butylphthalate	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Fluorene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D

Client ID: WSG/BRG- COMP 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Isophorone	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
Pentachloronitrobenzene	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Phenol	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Pyrene	ND	260	ug/Kg	1	07/17/18	KCA	SW8270D
Pyridine	ND	370	ug/Kg	1	07/17/18	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	81		%	1	07/17/18	KCA	30 - 130 %
% 2-Fluorobiphenyl	63		%	1	07/17/18	KCA	30 - 130 %
% 2-Fluorophenol	55		%	1	07/17/18	KCA	30 - 130 %
% Nitrobenzene-d5	66		%	1	07/17/18	KCA	30 - 130 %
% Phenol-d5	58		%	1	07/17/18	KCA	30 - 130 %
% Terphenyl-d14	70		%	1	07/17/18	KCA	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

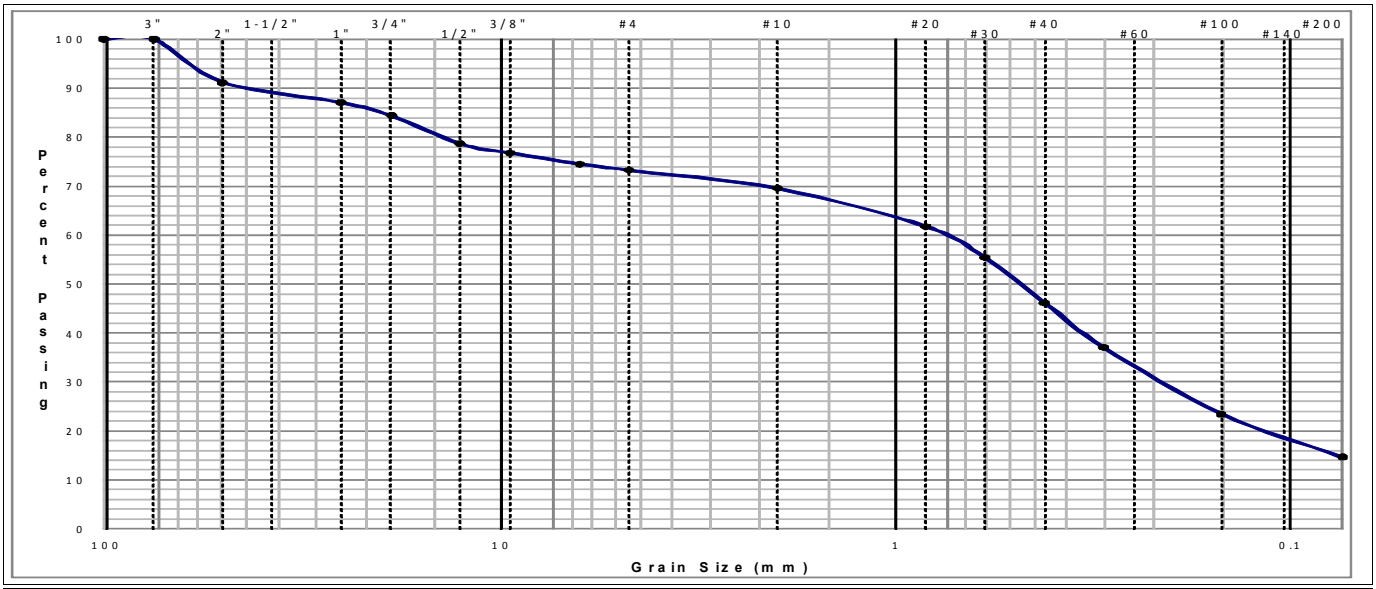
Phyllis Shiller, Laboratory Director
July 17, 2018
Official Report Release To Follow

PARTICLE SIZE ANALYSIS REPORT

Client: NRC
Project:

Sample Date: July 12, 2018
Sampled By: CLIENT
Service Order No.: 10686
Sample No.: UT4626S-02

Location: Stockpile



	% Gravel			% Sand			% Fines	
% +3"	Coarse	Med	Fine	Coarse	Medium	Fine	Silt	Clay
0	16	8	3	4	23	32	12	3

SIEVE SIZE	PERCENT FINER	SPEC.* LOW	SPEC.* HIGH	OUT OF SPEC. (X)
4 in	100			
3 in	100			
2 in	91			
1.00 in	87			
3/4 in	84			
1/2 in	79			
3/8 in	77			
1/4 in	75			
No. 4	73			
No. 10	70			
No. 20	62			
No. 30	55			
No. 40	46			
No. 50	37			
No. 100	24			
No. 200	15			

* (no specification provided)

Soil Description

Brown Bank Run Gravel

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85} = 20.3371 D_{60} = 0.7631 D_{50} = 0.4850
D_{30} = 0.2081 D_{15} = 0.0758 D_{10} = 0.0371
C_u = 20.5636 C_c = 1.5300

Classification

USCS= AASHTO=

Remarks

Delivered by client on July 13, 2018
ASTM D-422 with Hydrometer

Reviewed by: Gary Gripp Date: Jul 19, 2018

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Unrestricted

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 400-500

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

N/A

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

N/A

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

R. Scott Rommell, Managing Member

Location where fill was obtained:

Poland Sand and Gravel, LLC.

Identification of any state or local approvals as a fill source:

D-51F and D51G

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Source documentation letter (page 4 of PDF)
Geotechnical analysis (page 5 - 6 of PDF)

The information provided on this form is accurate and complete.

10/8/18

Date

Karina J. Tipton

Print Name

Brown and Caldwell

Firm

POLAND SAND & GRAVEL LLC
PO BOX 83, POLAND, NY 13431
ph 315-826-3761 fax 351-826-3755
www.polandsandandgravel.com

May 9, 2018

To Whom It May Concern:

Poland Sand & Gravel, LLC's mine located at 8694 South Main St, (NYS Rte. 28) Poland, NY is an approved producer for Fine aggregate and Coarse Aggregate by NYS DOT. It's designated source number is 2-51F and 2-51G, respectively. Our products are continually monitored for quality and meet or exceeded industry standards.

The mine is approved for extraction and sale of materials by NYS DEC.

Mine ID**: 60729** Company Name: PSG Realty, LLC

Status: Active Mine Name: PSG Poland Pit

County: Herkimer Town: Newport

Materials extracted from this mine location has been tested for contamination and has been approved for use.

We attest that all materials delivered from this mine site will be in compliance with NYS DEC standards.

If we may be of further assistance, please feel free to contact me at (315)826-3761.

Sincerely,

R. Scott Rommel

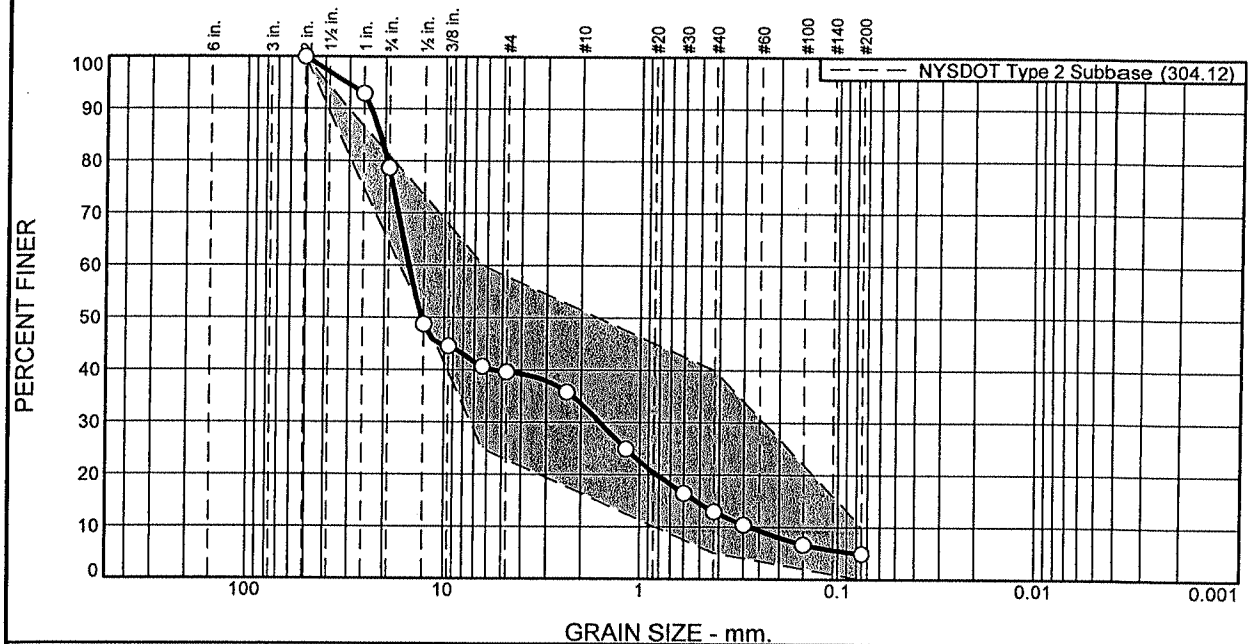
Managing Member

Poland Sand & Gravel, LLC

ATLANTIC TESTING LABORATORIES

WBE certified company

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	21	39	6	21	8	5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC (X)
2	100	100	
1	93		
.75	79		
.5	49		
.375	45		
.25	41	25 - 60	
#4	40		
#8	36		
#16	25		
#30	16		
#40	13	5 - 40	
#50	10		
#100	7		
#200	4.9	0.0 - 10	

* NYSDOT Type 2 Subbase (304.12)

Soil Description

Grey NYSDOT Type II Crusher Run

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 21.0620 D_{60}= 15.1231 D_{50}= 13.0392
D_{30}= 1.5979 D_{15}= 0.5239 D_{10}= 0.2802
C_u= 53.98 C_c= 0.60

Classification

USCS= GP AASHTO=

Remarks

Sampled and delivered by the client on 4/13/2018
ASTM C 136 / C 117

Source of Sample: 172 Hinkley Poland, NY **Depth:** N/A
Sample Number: AT003S779

ATLANTIC TESTING LABORATORIES, LIMITED
Albany, New York

Client: Material Sand and Gravel
Project: LSA

Report No: AT003SL-779-04-18 **Date:** 4/19/2018

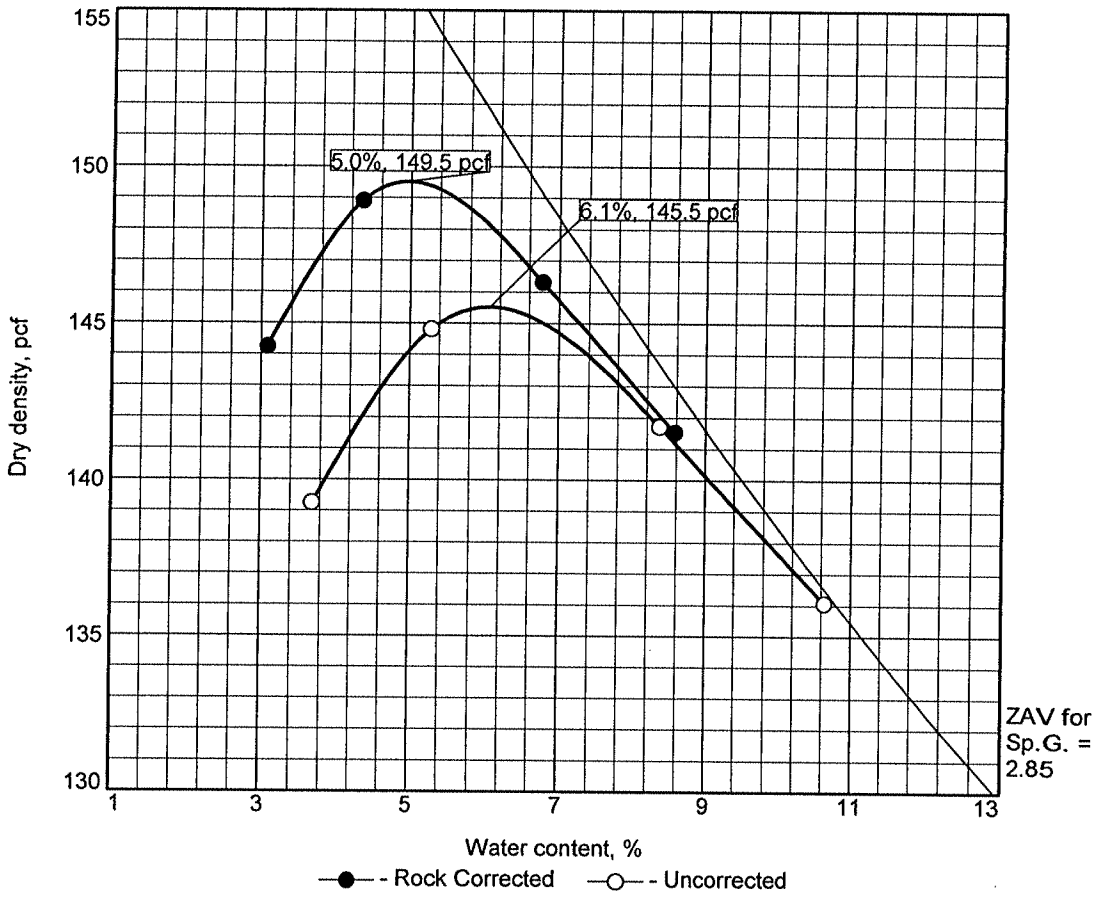
Tested by: J Pennisi Date: 4/17/18

Reviewed by: RFF Date: 4/19/18

ATLANTIC TESTING LABORATORIES

WBE certified company

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Received Moist.	Sp.G.	LL	PL	PI	% > 3/4 in.
	USCS	AASHTO						
N/A	GP		---	2.67	---	---	---	21

ROCK CORRECTED TEST RESULTS

Maximum dry density = 149.5 pcf

Optimum moisture = 5.0 %

MATERIAL DESCRIPTION

Grey NYSDOT Type II Crusher Run

Report No.: AT003SL-779-04-18 **Client:** Material Sand and Gravel
Project: LSA
Source of Sample: 172 Hinkley Poland, NY
Sample Number: AT003S779 **Date:** 4/19/2018

ATLANTIC TESTING LABORATORIES, LIMITED

Albany, New York

Remarks:
samples and delivered by the client on 4/13/2018
Dry Prep

Rammer: Mechanical
Specific Gravity: Assumed

Tested by: J Dennisi Date: 4/17/18

Reviewed by: RFF Date: 4/19/18

Karina,

I saw in the Request to Reuse Soil that only the concentration of copper was above unrestricted use from the August sampling, and that it was detected in the blank. Could that make the high concentration close to naturally occurring? Do you know the values for the blank?

Thanks,
Michael

From: Karina Tipton [mailto:KTipton@BrwnCald.com]
Sent: Wednesday, September 19, 2018 7:25 AM
To: Squire, Michael H (DEC) <Michael.Squire@dec.ny.gov>
Cc: Glenda B Clark (US) (glenda.b.clark@lmco.com) <glenda.b.clark@lmco.com>
Subject: Utica excavation - import fill request forms

Good morning Michael,

Please find attached three import fill requests for the Utica site for backfill material in the excavation.
If you have any questions, please let me know.

Thanks,
Karina

Karina J. Tipton, P.E., LEED AP
Brown and Caldwell
KTipton@brwncald.com
T 201.574.4719 | **C** 646.321.3111

Professional Registration in Specific States

Please use my dropbox to transmit large files

Appendix H—Decontamination Wipe Sample Data

NATIONAL RESPONSE COPORATION

6392 Deere Road
Syracuse, NY 13206
Ph: 201-341-9001

LETTER OF TRANSMITTAL

Date:	13-Oct-18
NRC Project No.	117256
B&C Project No.	
Attention:	Adam Gutta, P.E.
RE:	Former Lockheed Martin French Road Facility Remediation

TO: Brown and Caldwell
2 Park Way
Sutie 2A
Upper Saddle River, NJ 07458

Transmittal No.: **008**

WE ARE SENDING YOU: [X] Attached [ ] Under a separate cover via_____The following items:

[ ] Shop Drawings [ ] Change Order [ ] Prints [ ] Plans [ ] Specifications

[ ] Copy of Letter [ ] Samples [ ] Contract [ ] _____

COPIES	DATE	PAGES	DESCRIPTION
1	10/13/2018	7	NRC - 2018 Backhoe Bucket Decontamination PCB Analytical Results

THESE ARE TRANSMITTED as checked below:

[X] For Approval [ ] Resubmit_____Copies for Approval [ ] Approved as Submitted

[ ] For Your Use [ ] Resubmit _____Copies for distribution [ ] Approved as Noted

[ ] As Requested [ ] Return ____ Corrected Prints [ ] Returned for Corrections

[ ] For Review and Comment [ ] _____ [ ] FOR BIDS DUE_____20__

Remarks:

Specification: 01 52 20 Decontamination Requirements

Adam,

Attached for your review is an analytical data package for PCBs required for decontamination and demobilization of the Backhoe.

Certification Statement: by this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.

Signed: _____
Zakary Arnhold, Project Controls Specialist

Backhoe Bucket Decontamination
PCB Analytical Results

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

October 12, 2018

FOR: Attn: Todd Scott
NRC Environmental Services
63 Trade Road Bldg #4
Massena, NY 13662

Sample Information		Custody Information		Date	Time
Matrix:	WIPE	Collected by:		10/10/18	9:15
Location Code:	NRC-NY	Received by:	CP	10/11/18	11:15
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	117256.13				

Laboratory Data

SDG ID: GCB69739
Phoenix ID: CB69739

Project ID: LMC- UTICA, NY
Client ID: BH-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
PCB Wipe Extraction	Completed				10/11/18	K/AK	SW3540C	
Polychlorinated Biphenyls								
PCB-1016	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1221	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1232	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1242	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1248	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1254	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1260	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1262	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1268	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
QA/QC Surrogates								
% DCBP	96		%	1	10/12/18	AW	30 - 150 %	
% TCMX	86		%	1	10/12/18	AW	30 - 150 %	

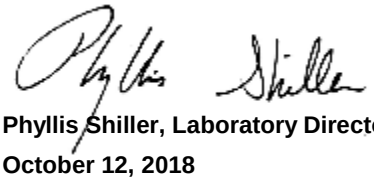
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 12, 2018
Official Report Release To Follow

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

October 12, 2018

FOR: Attn: Todd Scott
NRC Environmental Services
63 Trade Road Bldg #4
Massena, NY 13662

Sample Information		Custody Information		Date	Time
Matrix:	WIPE	Collected by:		10/10/18	9:15
Location Code:	NRC-NY	Received by:	CP	10/11/18	11:15
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	117256.13				

Laboratory Data

SDG ID: GCB69739
Phoenix ID: CB69740

Project ID: LMC- UTICA, NY
Client ID: BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
PCB Wipe Extraction	Completed				10/11/18	K/AK	SW3540C	
Polychlorinated Biphenyls								
PCB-1016	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1221	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1232	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1242	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1248	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1254	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1260	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1262	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
PCB-1268	ND	0.50	ug	1	10/12/18	AW	SW8082A	1
QA/QC Surrogates								
% DCBP	91		%	1	10/12/18	AW	30 - 150 %	
% TCMX	88		%	1	10/12/18	AW	30 - 150 %	

Project ID: LMC- UTICA, NY
Client ID: BLANK

Phoenix I.D.: CB69740

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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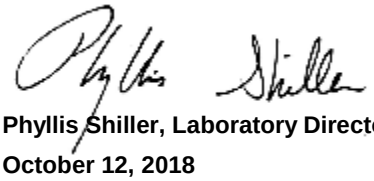

Phyllis Shiller, Laboratory Director
October 12, 2018
Official Report Release To Follow

Sample Criteria Exceedances Report

GCB69739 - NRC-NY

Criteria: None

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Cooler: Yes ☐ No ☑
Coolant: IPK ☐ ICE ☐ No ☑

Temp 1.9 °C Pg of

NY/NJ CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax:
☐ Phone: 585-462-3161
☐ Email: Zarnhold@nrcc.com

Customer: NRC - National Response Corp.
Address: 3500 Sunrise Highway Bld 200 Ste 200
Great River, NY 11739

Project: LMC - UTICA NY
Report to: Tscott@nrcc.com; Zarnhold@nrcc.com
Invoice to: AP@nrcc.com
QUOTE # :

Project P.O: 117256.13

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 10.10.18

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs (Total) 8082A	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [1] methanol [2] H2O	GL Soil container (4) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL NaOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
69739	BH - 1	W	10-Oct	915	x			Y									
69740	Blank	W	10-Oct	915	x			Y									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	10/11/18	11:15

Comments, Special Requirements or Regulations:

PCB - Rush 1 Day TAT, Need results to demobilize equipment.

Turnaround:
☒ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 5 Days
☐ 10 Days
☐ Other
* SURCHARGE

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
☐ GW Criteria

What State were samples collected? NY

NY
☐ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

Data Format
☐ Phoenix Std Report
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other

Data Package
☐ NJ Reduced Deliv. *
☐ NY Enhanced (ASP B) *
☐ Other