NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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January 24, 2024

Michael Archie
U.S. Department of Veterans Affairs
400 Fort Hill Avenue
Canandaigua, New York 14424

Re: Site Characterization
Work Plan
400 Fort Hill Avenue
Building 201
Site №.: 835031
Canandaigua (C), Ontario (C)

Dear Mr. Archie:

The New York State Department of Environmental Conservation (Department) has completed a review of the Draft Site Characterization Work Plan (Work Plan) dated March 2023, for the Canandaigua Veterans Medical Center (Site) located at 400 Fort Hill Avenue, Building 201, Canandaigua, New York 14424. Based on the information presented in the Work Plan, the Work Plan is conditionally approved based on the clarifications, and modifications presented below.

1. Adjust document to only reference one set of appendices or each referenced appendix will include further clarification to distinguish which documents appendices are being referenced (e.g.: Appendix A of this SCWP). The Document has the Draft Site Characterization Work Plan's Appendices, as well as the Site Characterization Summary Report's Appendices. Of which reference separate appendices.

2. The Department understands that Section 6.0 Schedule is on page 15, not 115 as indicated in the Table of Contents.

3. The Special Community Air Monitoring Plan (CAMP) is required if workers (those not involved in the excavation activities), or members of the public are within 20-feet of ground intrusive activity. The Department understands that the Special CAMP will be implemented as needed during the site characterization fieldwork activities. A copy of the Special CAMP is attached for your convenience.

4. Section 3.0 – The Department understands that HFM indicated in the Work Plan is defined as historical fill material. Each type of HFM encountered during the site

characterization field work activities will have contaminant characterization samples collected and analyzed. A qualified environmental professional (QEP) needs to meet Part 375 and DER-10 definition. Boring logs will include PID readings.

5. Section 3.1 – The Department understands that at a minimum 14 direct-push borings will be installed to delineate the horizontal and vertical extent of contamination. Each of the 14 soil cores will be drilled to a depth of 15-feet below grounds surface or until refusal. Every boring will retrieve three 5-foot sections or if refusal is met, then the collected volume which has been retrieved will be collected.

6. Section 3.1 – All boring cores will be field screened for type of solid waste (HFM), odor, staining, and a PID. A PID screening level of 10-ppm will be used.

7. Section 3.1 & 3.2 – Borings which will be converted to wells will be determined with consultation with DER PM. The Department understands that a minimum of four MWs will be installed but additional groundwater monitoring wells maybe installed based on the subsurface vertical and horizontal delineation.

8. Section 3.3 –Revise the soil gas samples will be collocated at select soil/groundwater locations. The soil gas sample collection will be in accordance with NYSDOH guidance and the samples will be analyzed for Method TO-15 at an ELAP certified laboratory.

9. MWs develop at a minimum of 24-hours after installation. Groundwater sampling 2-weeks after installation. Monitoring wells will be checked for NAPL. Groundwater development logs will be generated and included in the report.

10. Surface soil is from a depth of 0 – 2 inches and will be sampled to evaluate potential direct contact exposure in grassed areas, as per DER-10 Section 2.0.

11. Section 4.1 – Soil/HFM samples will be collected from groundwater interface or interval(s) with impacts based on field screening. Analytical of HFM will be in accordance with DER-10 Section 3.11 based on the type of HFM. PFAS sampling and analytical in accordance with Department's current guidance. The MOU does not indicate the number of full suite samples. It states that "VA acknowledges that a portion of the sample collected will be analyzed for the full Target Analyte List and Target Compound list." The Department requests that 20% of all samples collected are analyzed for TAL metals and TCL VOCs and SVOCs including TICs. With respect to background sampling study, this will be completed under a separate work plan or an addendum to this work plan with State approval. Analytical results may need to be compared to the protection of groundwater SCOs if a compound detected in groundwater is above standards and guidance values and if the protection of groundwater SCOs differs from the unrestricted SCOs.

12. Section 4.2 – Groundwater samples will be collected from all groundwater monitoring wells installed as part of the site characterization. Groundwater samples can be collected no early than 2-weeks after development. Number of well volumes and/or groundwater stabilization criteria will be in accordance with ASTMs. Groundwater monitoring logs will be generated. The logs will include at a minimum but not limited to the results of NAPL screening, depth of intake if low flow, groundwater sampling parameters, volume purged, etc. The number of PFAS groundwater samples will be determined based on the groundwater monitoring well locations.

13. The Department understands that soil gas samples will be collected in accordance with NYSDOH guidance. A figure will be submitted to the Department and NYSDOH for review and approval of the locations for the soil gas samples. The Department understands that the soil gas samples will be analyzed using Method TO-15 at an ELAP certified laboratory and the analytical data package will be Category B.

14. All media samples submitted will be analyzed at an ELAP certified laboratory for method of analysis. The laboratory data package will be Category B and a DUSR will be generated. All data will be submitted to EQuIS.

15. A contained in determination will be required for the off-sited disposal at a permitted facility for all Investigation Derived Waste (IDW) and will be managed in accordance with DER-10 and all applicable local, State, and Federal regulations. All supporting documentation will be provided in the report submitted to the Department.

16. Unregulated off-site management of materials from this site will not occur without prior formal NYSDEC project manager approval.

17. The Department understand that the Site workers will be 40-hour HAZWOPER trained and will have current 8-hour refresher certifications. Certificates will be made available upon request of the Department and/or NYSDOH.

18. DER-10 Chapter 2 QA requirements; QA/QC Plan.

19. Sampling for surface impoundments and the drainage system will be completed as per DER-10 Section 3.9.

The State seeks to resolve the outstanding differences in a mutually agreeable manner, which addresses the requirements of the Memorandum Of Understanding and associated work plans.

If your technical team have any questions or concerns regarding this letter or need further assistance with the Site, please feel free to contact me at (585) 226-5349 or via email: Joshua.Ramsey@dec.ny.gov.

Sincerely,

Joshua J. Ramsey
Project Manager

ec:
Eric Smith (VA)
Ryan Bergman (VA)
Kyle Stone (T&R)
Justin Deming (NYSDOH)
Stephanie Selmer (NYSDOH)
David Pratt (NYSDEC)
Charlotte Theobald (NYSDEC)

CAMP Special Requirements

Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s). Depending upon the nature of contamination, chemical-specific colorimetric tubes of sufficient sensitivity may be necessary for comparing the exposure point concentrations with appropriate pre-determined response levels (response actions should also be pre-determined). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.

- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 mcg/m^3, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 mcg/m^3 or less at the monitoring point.

- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

Special Requirements for Indoor Work With Co-Located Residences or Facilities

Unless a self-contained, negative-pressure enclosure with proper emission controls will encompass the work area, all individuals not directly involved with the planned work must be absent from the room in which the work will occur. Monitoring requirements shall be as stated above under "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures" except that in this instance "nearby/occupied structures" would be adjacent occupied rooms. Additionally, the location of all exhaust vents in the room and their discharge points, as well as potential vapor pathways (openings, conduits, etc.) relative to adjoining rooms, should be understood and the monitoring locations established accordingly. In these situations, it is strongly recommended that exhaust fans or other engineering controls be used to create negative air pressure within the work area during remedial activities. Additionally, it is strongly recommended that the planned work be implemented during hours (e.g., weekends or evenings) when building occupancy is at a minimum.

Site Characterization Work Plan

Prepared for:

United States Department of Veterans Affairs
Finger Lakes Health Care System

Prepared by:

T&R Environmental
691 Addison Rd
Painted Post, NY 14870

Date: August 28, 2023

Finger Lakes EnviroTech LLC.

7244 State Rt. 415
Bath, NY 14810

691 Addison Road
Painted Post, NY 14870

7575 Hannan Pwky.
Victor, NY 14564

NYSDEC DER-10 Certification Page

I, Kyle Stone, am currently a registered professional engineer licensed by the State of New York. I certify, under penalty of law, that this document titled Site Characterization Site Plan and associated figures, tables, attachments, and/or appendices was prepared under my direct supervision or by myself in substantial compliance with applicable regulations and the NYSDEC DER-10 Guidance document. The information contained within is, to the best of my knowledge and belief, true, accurate, and complete.

I, however, have not evaluated and do not certify aspects of this document that are outside my area of expertise (including, but not limited to, electrical, mechanical, and structural features).

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I, Kyle Stone, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375] and that this Site Characterization Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Kyle T. Stone, PE

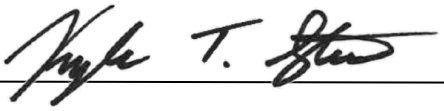
8/28/23

Date

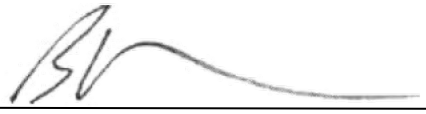
Sign Off Sheet

The contents of this report titled *DRAFT Site Characterization Work Plan* dated *August 28, 2023* are for the sole use of the intended recipient. Finger Lakes EnviroTech LLC. dba T&R Environmental (hereinafter referred to as 'T&R Environmental' or 'T&R') has not verified the accuracy of the information provided to them by any third party and makes no guarantee to its correctness. T&R strictly prohibits any reliance on this document and the recipient agrees to hold T&R harmless of any damages incurred as a result of such reliance on this report.

The undersigned, to the best of their knowledge utilizing the information available at the time of writing, acknowledges that this report has been prepared in accordance with applicable regulations and contains no intentionally misleading or fraudulent information.

Prepared by: 

Kyle Stone, PE

Reviewed by: 

Brian Polmanteer

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1.0 INTRODUCTION

This Site Characterization Work Plan (SCWP) was prepared by Finger Lakes Enviro-Tech, LLC, dba T&R Environmental (T&R) on behalf of the US Department of Veterans Affairs, Finger Lakes Health Care System referred to as the Canandaigua VA Medical Center located at 400 Fort Hill Ave., Canandaigua, NY 14424 (hereinafter referred to as the "VA" or "Site") to further investigate and characterize the vertical and horizontal extent of Historic Fill Material (HFM) previously encountered during the Site civil work associated with the expansion of Building 201 at the Site campus. A Site Location Map is included as **Figure 1**. Further location details as they pertain to NYSDEC Site No. 835031 are included in **Figure 2**.

The Site consists of an approximately 2.1 acre portion of a larger parcel owned by VMAC (The United States). The Site consists of multiple buildings (chiller plant, building maintenance building), parking area, an engineered stormwater retention pond, and mown grass areas. Two identified wetland areas were identified via NYSDECs wetland mapper tool within one half mile of the Site boundary. Two individual wetlands are located approximately 0.2 miles to the northeast of the Site and are identified as Freshwater Forested/Shrub Wetlands on the National Wetlands Inventory. Additionally, multiple combined wetlands are located approximately 0.3 miles to the west of the Site and are categorized as Freshwater Forested/Shrub Wetlands and Freshwater Emergent Wetland on the National Wetlands Inventory and Freshwater Wetland on the State Regulated Freshwater Wetlands Inventory. No ecological areas were identified within the 0.5 mile radius of the Site.

The overall objective of this SCWP is to build on and fill data gaps existing from the previous, limited investigation of the Site performed by T&R which is summarized in the *Site Characterization Summary Report* dated July 1, 2020, included as **Appendix A** of this report to create a more complete environmental characterization of the Site. The goal of the previous limited investigation was to determine whether HFM-related impacts such as volatile tar, incinerator ash, molten cinders and associated chemical elements pose a risk to human health or the environment, and to the extent of which HFM is present at the Site. Additionally, the scope of work as presented within this report is to perform additional characterization at the Site to comply with the Memorandum of Understanding (MOU) entered in between the New York State Department of Environmental Conservation (NYSDEC) and the VA dated January 5, 2023. A copy of the executed MOU is included within **Appendix B** of this report.

The SCWP scope of work at the Site will include:

- Location and marking of subsurface utilities or structures using both conductive and non-conductive methodologies;
- HFM and non-HFM sample collection/observations at approximately thirteen (13) pre-determined temporary direct push (i.e. Geoprobe®) locations;

- Installation of up to four (4), one-inch temporary groundwater monitoring wells within soil borings exhibiting the highest visual concentration of HFM or volatile organic compounds (VOCs);
- Collection of groundwater samples to be submitted to an New York State Department of Health (NYSDOH) environmental laboratory accreditation program (ELAP)-certified laboratory for comparison to applicable NYSDEC regulatory criteria;
- Collection of HFM and soil samples will be submitted to an ELAP-certified laboratory for comparison to applicable NYSDEC regulatory criteria;
- Field screening for VOCs utilizing a photoionization detector (PID) during the installation of soil borings;
- Surface restoration during investigation; and
- Generation of a Site Characterization Report identifying the location and extent of HFM, including a determination of the presence of any contaminated non-HFM. Support documentation shall include analytical reports, subsurface boring logs, and applicable photographs.

2.0 BACKGROUND

2.1 2019 Site Civil Work and Limited Environmental Investigation

On October 23, 2019, T&R Environmental (T&R) was retained by the VA to excavate a single test pit within the proposed Building 201 footprint to ascertain the depth of the HFM, and to collect representative samples for laboratory analysis for waste characterization purposes. This work was requested by the VA following the excavation of HFM and a partial drum carcass during Site civil excavation relating to Building 201 expansion. The HFM generally consisted of incinerator ash, molten cinders, brick fragments, and a partially solidified tar-like substance. This work was completed exclusively for the purposes of implementing Site civil improvements associated with the Building 201 expansion and was not intended to serve as a full or limited environmental investigation or Site characterization at the Site.

During test pitting operations, a PID was used to screen HFM for evidence of VOCs emanating from excavated materials. Elevated PID readings were not reported from the ash material. However, PID readings up to 500 parts per million (ppm) were recorded from a tar-like substance encountered. In addition, a tar-like odor was evident.

The laboratory results of the tar-like substance demonstrated no leachable VOCs, or semi-volatile organic compounds (SVOCs). Additionally, no polychlorinated biphenyls (PCBs) were detected above laboratory reporting limits. Furthermore, the results demonstrated that the tar did not exhibit hazardous characteristics of ignitability, reactivity or corrosivity.

Laboratory analysis of a separate sample collected of the encountered incinerator ash demonstrated no leachable concentrations of VOCs, SVOCs, or PCBs. The sample also did not exhibit hazardous characteristics of ignitability, reactivity or corrosivity. A leachate concentration of 17.7 milligrams per liter (mg/L, equivalent to ppm) was reported for the heavy metal lead. The United States Environmental Protection Agency (EPA) hazardous waste threshold for lead is 5.0 mg/L. As such, it was determined that soils mixed with ash were to be considered characteristically hazardous.

In December 2019, T&R Environmental was retained by the VA to further characterize, remove, and dispose of the HFM encountered during the expansion of Building 201. The remediation was conducted exclusively within the footprint of the Building 201 expansion in order to maintain the Site's construction schedule.

Remedial actions performed at the Site included the excavation and disposal of approximately 891.13 tons of HFM, backfilling of the excavation, and disposal of approximately 7,100 gallons of VOC-impacted water containerized from within the excavation.

As stated previously, the excavation of HFM was limited to the Building 201 expansion footprint during this work. HFM was observed along the sidewalls of the excavation, in addition to tar and embedded corroded drums along the east sidewall of the excavation.

Analytical results on a tar sample collected from the east sidewall revealed exceedances of various NYSDEC Commissioner Policy-51 (CP-51) VOCs above New York Code, Rules, and Regulations (NYCRR) Part 375-6(a) Unrestricted Use SCO's and NYCRR Part 375-6(b) Restricted Commercial Use SCOs.

VOC impacts were also reported from a groundwater recovery well installed by T&R at the northeast corner of the excavation. Based on the analytical data, the impacts appeared to be minimal as there were no exceedances of CP-51 VOCs detections above 100.0 micrograms per liter (ug/L).

T&R concluded that based on the regulatory exceedances of VOCs and possibly SVOCs from the HFM, in addition to the observance of additional drums and tar embedded outside the excavation limits, the potential for future soil and groundwater impacts existed at the Site.

T&R recommended that a series of test pits be excavated and evaluated beyond the limits of the Building 201 expansion footprint to determine the vertical and horizontal extent of target fill containing coal tar and/or other impacts. The results of the test pit investigation would provide the VA and NYSDEC with the knowledge necessary to determine whether additional remedial measures are necessary, and/or provide data necessary for the preparation of a possible Soil and Groundwater Management Plan (SGMP). The SGMP would identify the extent of the HFM area and would outline measures to properly handle any target fill and/or groundwater that could be encountered during potential subsurface work at the Site.

2.2 2020 Subsurface Investigation

In 2020, T&R was again retained by the VA to further investigate the extent of HFM at the Site. The objective of this investigation was to determine whether HFM-related impacts such as volatile tar, incinerator ash, molten cinders and associated chemical elements pose a risk to human health or the environment and to determine the extent of which HFM is present at the Site. It is worth noting that at this point in time, NYSDEC had not defined the boundaries of the remedial site and therefore, T&R worked off of previous Site knowledge to inform investigation locations. This work was summarized in a NYSDEC-approved Work Plan dated April 15, 2020.

As part of this limited investigation, T&R performed the following scope of work:

- Advancement of sixteen (16) Geoprobe® borings in HFM and non-HFM locations to evaluate and collect samples for on-site characterization purposes;
- Excavation of nine (9) test pits within HFM and non-HFM locations for direct observation of test pit stratigraphy;
- Collection of six (6) HFM characterization samples, and one native soil background sample;

- Field screening of VOCs during the advancement of push probe borings and test pit excavations; and
- Submission of a Site Characterization Report with support documentation including analytical reports, boring logs, test pit logs and HFM delineation map.

T&R concluded that HFM was most prevalent immediately north and northeast of Building 201 and extended south across the eastern one-third of the Harry Truman Parking lot, and midway into the grass median separating Fort Hill Avenue from the parking lot. To gain a better perspective on surface area where HFM was observed and delineated, refer to Figure 2, Soil Boring & Test Pit Location Map of **Appendix A**. T&R also concluded that the primary contaminants of concern from the HFM samples were heavy metals, particularly. lead, arsenic, and chromium. A summary of HFM extent as identified in this investigation is included in **Figure 3**.

T&R also made the following recommendations as it relates to on-site HFM-containing soils. HFM that is excavated or disturbed should be segregated from other non-impacted media, and handled in one or more of the following methods:

- landfill disposal; and/or
- on-site reuse below Site cover system

T&R also made numerous recommendations as they relates to health and safety considerations for work workers with the potential to encounter HFM-containing soils.

3.0 SCWP METHODOLOGY

T&R shall conduct the SCWP in general accordance with *Section 3.2.1, Site Characterization* and *Section 3.11 Historic Fill Material* of NYSDEC's manual titled "DER-10 / Technical Guidance for Site Investigation and Remediation" (DER-10). T&R's methodology is intended to identify the horizontal extent, vertical limits, and physical characteristics of the HFM within, and immediately surrounding the NYSDEC-defined Site boundary as presented in **Figure 2** using borings on and around the Site, as well as to characterize the nature of the fill material via select analysis. Additionally, the SCWP is intended to characterize groundwater at the Site for previously identified compounds of concern within the HFM. The HFM may be characterized by collecting and analyzing contaminant characterization samples from each type of historic fill present (e.g. ash and tar are considered to be different types of material) to determine the site-specific contaminant levels.

If the HFM extends below the water table, borings shall extend beyond the water table as necessary to establish the vertical limit of the fill material and to install temporary groundwater monitoring wells for sampling of groundwater within the Site boundaries for characterization.

A minimum number of borings shall be installed in non-HFM areas around the perimeter of the HFM area to verify its horizontal extent.

The actual number and location of samples collected shall be based on the variability of fill types, in addition to utilizing previous analysis conducted during the Site's remediation and investigation events. A summary of anticipated sampling locations and sample types is included in **Table 1**.

Boring locations may be modified based on Site conditions and additional soil borings may be added as needed as the work proceeds. Additional soil borings may or may not be converted to monitoring wells based on location and Site conditions.

A review of historical aerial photographs was also conducted as part of the SCWP generation. The VA was unable to locate any internal historical aerial photographs during the suspected timeframe of Site fill operations. T&R also searched readily available public resources for historical aerial photographs of the Site in an attempt refine the scope of work presented within this report. T&R did locate a photograph from 1986 of the Site which appears to depict a dirt area to the north of the north corner of the current existing parking lot servicing Building 201 and the Chiller Plant. This photograph does not appear to show active fill operations at the Site. Due to the quality of the photograph, no other information was able to be ascertained.

Prevailing Site topography was also considered when developing locations of the proposed boring/monitoring wells. The majority of the investigation area is elevated approximately 2 ft. to 10 ft. above surrounding grade (sloping from less fill to the north to greater fill in the south, specifically on the southern side of the parking lot) which may be an indication of historical fill. Various proposed borings have been located outside of the topographically raised area to determine if HFM exists within these areas.

Investigation activities will be overseen by a T&R Qualified Environmental Professional (QEP). The QEP will be responsible for ensuring adherence to the SCWP, classifying HFM and non-HFM soils as per NYSDEC DER-10 Section 3.5.1(c), and field screening HFM and non-HFM soils. The QEP will generate subsurface boring logs documenting the field data recorded during the SCWP. Template field forms are included in **Appendix C**.

During activities with the potential to disturb subsurface soils (soil boring), a Community Air Monitoring Plan (CAMP) site-wide air monitoring will be implemented for both particulates and VOCs. A copy of the NYSDOH Generic CAMP will be adhered to and is included as **Appendix D.**

A Site-Specific Health and Safety Plan (HASP) has also been generated for this work and is included as **Appendix E.**

3.1 Test Borings

A direct-push drill rig shall be used for the advancement of two-inch diameter test borings at select areas where less intrusive locations are necessary such as paved lots, gravel parking surfaces and/or sensitive landscape areas.

T&R proposes the advancement of fourteen (14) direct-push sample points. Soil cores will be retrieved in 5-foot sections to a depth of 15-feet below ground surface, or until groundwater is encountered. Additional depths may be required until non-HFM areas (e.g. native soils) are encountered to define the vertical extent of the HFM (i.e. in instances where HFM continues to be encountered at groundwater depth or greater than 15 ft. bgs, the boring will continue until native soils are encountered). The approximate proposed boring locations are shown on **Figure 4**. Soil boring nomenclature will continue from previous on-site investigations. Four temporary groundwater monitoring wells will be installed in four anticipated soil borings as shown on **Figure 4,** unless field conditions dictate otherwise.

HFM and non-HFM materials shall be classified upon retrieval by the QEP, and continuously assessed at one-foot intervals for visible identification of HFM types, olfactory indications of HFM impairment, and/or indication of detectable VOCs with a PID.

It should be noted that the area underlying Building 201 will not be investigated further as previous investigations have concluded that the subsurface area immediately surrounding the building contains HFM. The VA has assumed the subsurface area beneath the building is also likely impacted at similar depths.

Upon completion of borings, the boring area will be restored to pre-investigation conditions to the extent practicable. This shall include the backfill of the bore hole with bentonite chips to the surface.

3.2 Temporary Groundwater Monitoring Wells

In addition to soil characterization at the Site, T&R shall also install up to four (4) groundwater monitoring wells to characterize on-site groundwater. Select soil borings shall be converted to temporary monitoring wells of whose location will be determined in the field by the QEP based on encountered subsurface soil conditions. Anticipated locations are included in **Figure 4**. Locations of the groundwater monitoring wells will effectively cover the aerial extent of the Site. Temporary monitoring wells will be constructed in the borings using 1-inch diameter PVC well screen (0.01" slot size) and casing for groundwater sampling and monitoring purposes. The wells will be constructed with a screen length of 10-feet with the screen intersecting the encountered water table. The annulus space around the well screen shall be packed with silica sand and the annulus space around the riser shall be sealed with bentonite to the surface. The wells will be finished with flush mount covers, if necessary.

The installed monitoring wells will be developed following installation and will be allowed to stabilize prior to sampling, assumed to be over the course of multiple days. The wells shall be surveyed to a common datum to establish approximate groundwater elevations and flow direction. Groundwater sampling will consist of measuring the depth to groundwater in each well. Each well will then be purged of at least three well volumes of water and then groundwater samples shall be collected in laboratory-provided glassware, placed on ice, and transported to a ELAP-certified laboratory for analysis. The following sections discuss soil and groundwater sampling analyses.

3.3 Soil Vapor

Due to the commercial nature of buildings within the investigation area of the Site and the nature of historical contamination encountered, a soil vapor investigation has been deemed unnecessary for this phase of work.

4.0 ANALYTICAL CHARACTERIZATION

4.1 Soil Analytical

The HFM shall be characterized by collecting and analyzing contaminant characterization samples from each type of historic fill present (e.g. ash, demolition debris, tar, etc.). The actual number and location of samples collected shall be based on the variability of fill types and contaminant ranges in the HFM area. Should HFM not be encountered within a specific boring, a soil sample will be collected at the groundwater interface (vadose zone) or depth with highest VOC reading.

Soil samples will be submitted to an ELAP-certified laboratory (Paradigm Environmental of Rochester, NY) for analysis of priority pollutant metals, carcinogenic and noncarcinogenic polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH) as directed in Section 3.11, Historic Fill Material of the DER-10 manual. It should be noted that, in accordance with the MOU, three borings will be analyzed for the full Target Compound List (TCL) for organic compounds and Target Analyte List (TAL) for inorganic compounds. Additionally, one soil boring shall be analyzed for the Per- and Polyfluoroalkyl Substances (PFAS) analyte list provided in Appendix G of the current NYSDEC-guidance for PFAS sampling dated November 2022 and 1,4-Dioxane.

Field screening for VOCs shall be conducted during the installation of soil borings. VOC analysis shall be performed on any samples that reveal elevated field instrument measurements.

If more than one type of HFM is encountered in any boring, one sample for each type of fill material shall be collected for analysis. In accordance with previous conversations with NYSDEC regarding this investigation, any tar-like material encountered within the HFM will be analyzed for petroleum hydrocarbon identification (sometimes referred to as petroleum fingerprinting).

As background samples were collected during previous investigations at the Site, no background sampling is proposed as part of this SCWP. If contaminants are identified in the HFM in excess of the unrestricted soil cleanup guidance at the proposed locations, the results of the background test may be followed to demonstrate to the DEC that the concentration of the element, chemical or contaminant in the HFM sample may be due to naturally occurring background conditions.

The results of the HFM testing shall be compared to 6 NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives (SCOs), and 6 NYCRR Part 375-6.8(b) Restricted Commercial Use SCO’s. Petroleum fingerprinting analysis will be utilized to potentially determine the source/type of tar-like material previously encountered at the Site.

A summary of soil samples to be collected as a function of location is included in **Table 1.**

4.2 Groundwater Analytical

Site groundwater shall be characterized by collecting and analyzing groundwater samples at each of the four (4) installed temporary groundwater monitoring wells. Groundwater samples shall be collected utilizing accepted industry practices following the removal of at least three well volumes in laboratory-provided glassware, placed on ice, and transported to a ELAP-certified laboratory for analysis. Groundwater will be sampled using bailer following stabilization of groundwater criteria or removal of three well volumes, whichever comes first.

Groundwater samples will be submitted to an ELAP-certified laboratory (Paradigm Environmental of Rochester, NY) for analysis of TAL metals, TCL VOCs, TCL SVOCs, and polychlorinated biphenyls (PCBs). Additionally, one groundwater sample shall be analyzed for Per- and Polyfluoroalkyl Substances (PFAS) in accordance with current NYSDEC guidance and 1,4-Dioxane.

A summary of groundwater samples to be collected as a function of location is included in **Table 1.**

5.0 SITE CHARACTERIZATION REPORT

T&R will provide a Site Characterization Report of Site-related activities following the completion of the work outlined in this SCWP. The report will include:

- Written details of the field activities.
- Boring logs.
- Tabulated analytical results with a comparison to applicable standards, criteria and guidance values.
- Site figure showing the locations of soil borings and groundwater monitoring wells.
- Site photographs.
- Report recommendation based upon the results of the SCWP. Report recommendations shall include further information regarding the design and implementation of any interim remedial measures that may be required at the Site in accordance with the MOU.

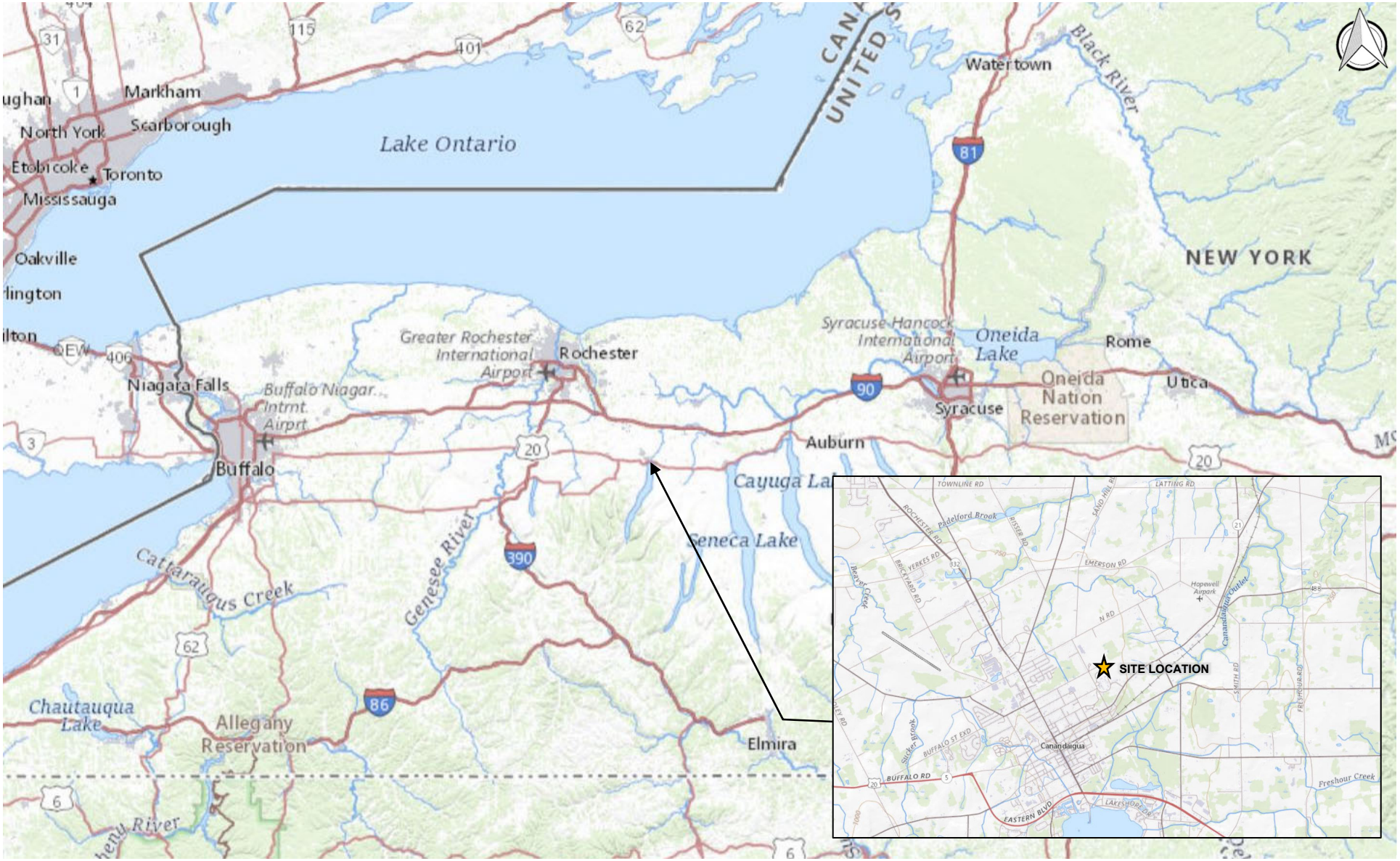
6.0 SCHEDULE

Implementation of the Site Characterization work as presented within will occur within one month of NYSDEC's approval of the Work Plan. Field work is anticipated to occur over the course of two to three weeks at which point samples will be submitted to the laboratory. The field work timeline will also be dependent on prevailing weather and other factors out of the control of the Environmental Contractor and may be subject to change. The Site Characterization Report will be prepared no later than two months following receipt of laboratory results, at which point the report will be submitted to NYSDEC for review. The VA will notify the NYSDEC one week prior to starting any field operations relating to this Work Plan. Additionally, the VA will notify NYSDEC of any known or foreseen deviations to the schedule as presented within this section.

TABLES

		Analytes									
Media	**Location**	**Prority Pollutant Metals**	**PAHs**	**PCBs**	**TPH**	**TCL VOCs**	**TCL SVOCs**	**TAL Metals**	**PFAS**	**1,4-Dioxane**	**Petroleum Fingerprinting**
Soil	B-17	X	X	X	X						
Soil	B-18	X	X	X	X						
Soil	B-19	X	X	X	X						
Soil	B-20	X	X	X	X	X	X	X			
Soil	B-21	X	X	X	X						
Soil	B-22	X	X	X	X						
Soil	B-23	X	X	X	X	X	X	X			
Soil	B-24	X	X	X	X						
Soil	B-25	X	X	X	X	X	X	X	X	X	
Soil	B-26	X	X	X	X						
Soil	B-27	X	X	X	X						
Soil	B-28	X	X	X	X						
Soil	B-29	X	X	X	X						
Soil	B-30	X	X	X	X						
Tar	If Encountered (One Location)										X
Groundwater	B-18/MW-1			X		X	X	X			
Groundwater	B-20/MW-2			X		X	X	X			
Groundwater	B-25/MW-3			X		X	X	X	X	X	
Groundwater	B-28/MW-4			X		X	X	X			

FIGURES

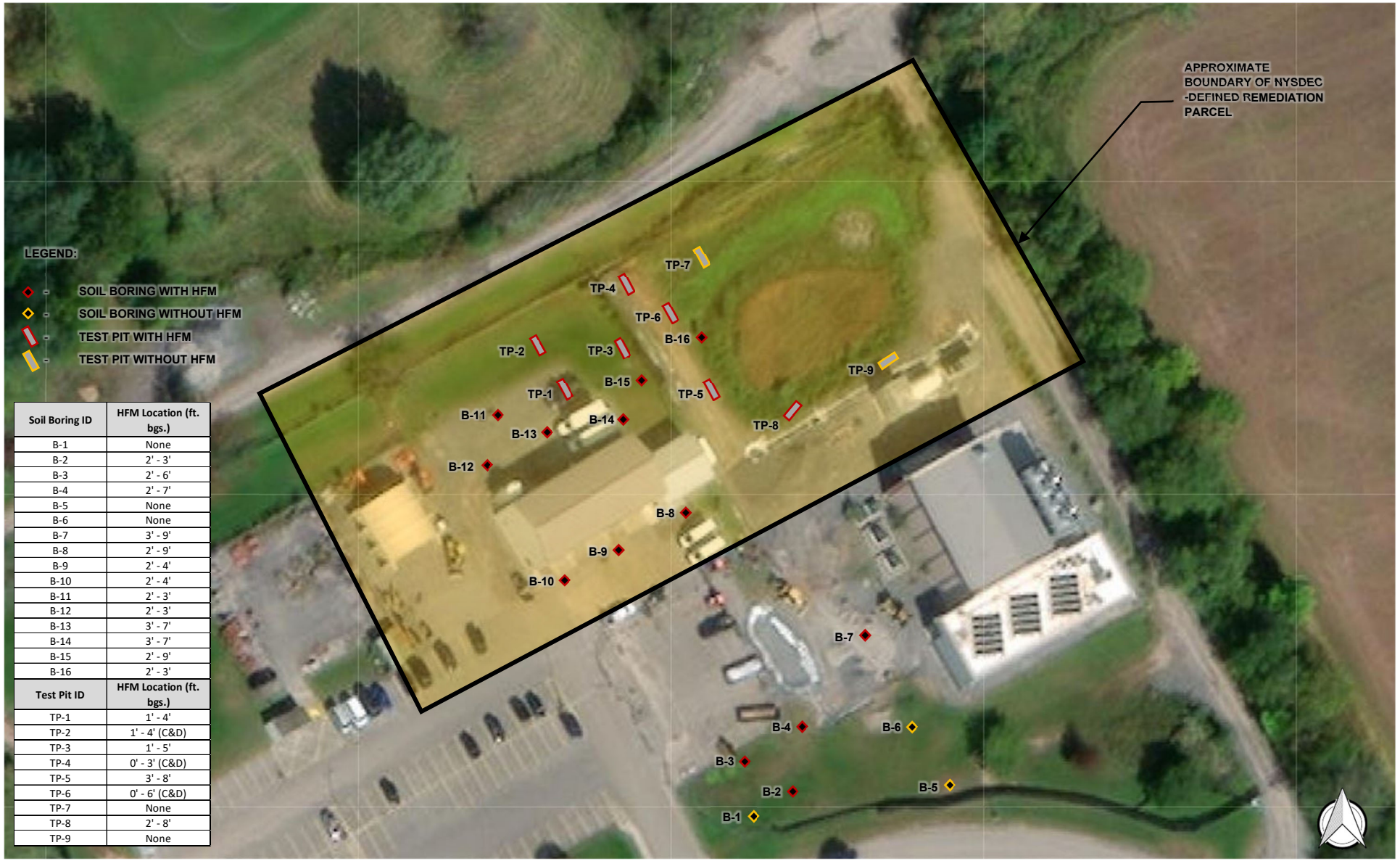


US DEPARTMENT OF VETERAN AFFAIRS
FINGER LAKES HEALTH CARE SYSTEM
SITE CHARACTERIZATION WORK PLAN
CANANDAIGUA, NY

FIGURE 1
SITE
LOCATION MAP
MARCH 14, 2023
NOT TO SCALE
DRAFTED BY: KTS

US DEPARTMENT OF VETERAN AFFAIRS
FINGER LAKES HEALTH CARE SYSTEM
SITE CHARACTERIZATION WORK PLAN
CANANDAIGUA, NY

FIGURE 2
NYSDEC-DEFINED
SITE BOUNDARY
MARCH 14, 2023
NOT TO SCALE
DRAFTED BY: KTS



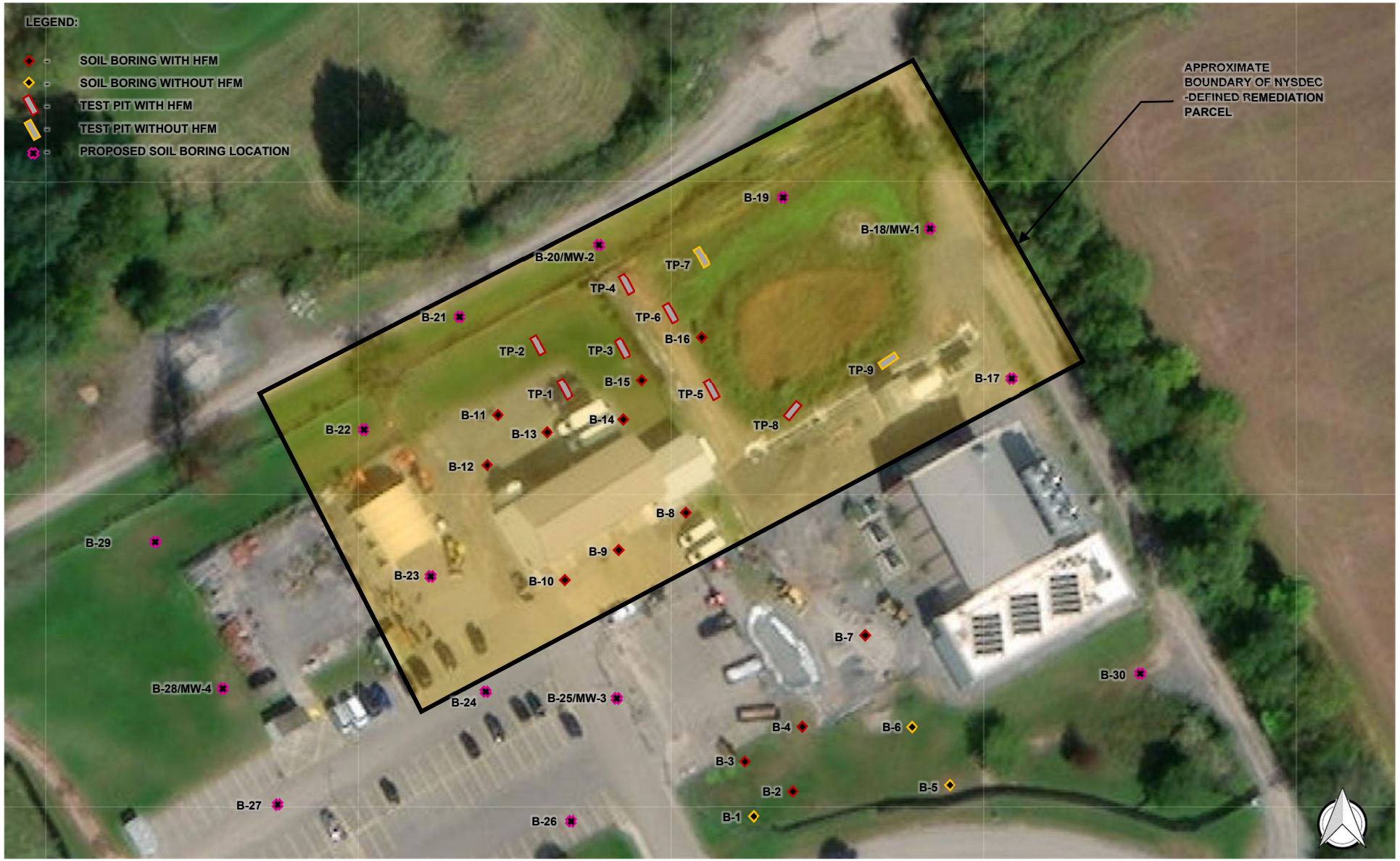
Soil Boring ID	HFM Location (ft. bgs.)
B-1	None
B-2	2' - 3'
B-3	2' - 6'
B-4	2' - 7'
B-5	None
B-6	None
B-7	3' - 9'
B-8	2' - 9'
B-9	2' - 4'
B-10	2' - 4'
B-11	2' - 3'
B-12	2' - 3'
B-13	3' - 7'
B-14	3' - 7'
B-15	2' - 9'
B-16	2' - 3'

Test Pit ID	HFM Location (ft. bgs.)
TP-1	1' - 4'
TP-2	1' - 4' (C&D)
TP-3	1' - 5'
TP-4	0' - 3' (C&D)
TP-5	3' - 8'
TP-6	0' - 6' (C&D)
TP-7	None
TP-8	2' - 8'
TP-9	None

ENVIRONMENTAL

US DEPARTMENT OF VETERAN AFFAIRS
FINGER LAKES HEALTH CARE SYSTEM
SITE CHARACTERIZATION WORK PLAN
CANANDAIGUA, NY

FIGURE 3
SUMMARY OF 2020 SITE INVESTIGATION FINDINGS BY LOCATION
MARCH 14, 2023
NOT TO SCALE
DRAFTED BY: KTS



US DEPARTMENT OF VETERAN AFFAIRS
FINGER LAKES HEALTH CARE SYSTEM
SITE CHARACTERIZATION WORK PLAN
CANANDAIGUA, NY

FIGURE 4
PROPOSED ADDITIONAL INVESIGATION POINTS
MARCH 14, 2023
NOT TO SCALE
DRAFTED BY: KTS

APPENDICES

APPENDIX A - SITE CHARACTERIZATION SUMMARY REPORT DATED JULY 10, 2020

SITE CHARACTERIZATION SUMARY REPORT

For

Building 201
400 Fort Hill Ave, Canandaigua
Ontario County, New York

Prepared for:

Project Manager: Frank Thomas

Prepared by: Frank Thomas

Reviewed by: Brian Polmanteer

691 Addison Rd
Painted Post, NY 14870

July 10, 2020

Finger Lakes EnviroTech LLC.

7244 State Rt. 415
Bath, NY 14810

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1.0 INTRODUCTION

This Site Characterization Summary Report presents the findings resulting from a subsurface Geoprobe® and Test Pit investigation conducted by T&R Environmental at the grounds of Building 201 within the Canandaigua VA Medical Center campus located at 400 Fort Hill Avenue, Canandaigua, New York (Site). The investigation was performed on behalf of the VA Medical Center to determine the vertical and horizontal extent of Historic Fill Material (HFM) encountered during the expansion of Building 201 and encounters from other ongoing construction activities at the Site. A Site Location Map outlining the general study area is provided as **Figure 1**.

The objective of this investigation was to determine whether HFM-related impacts such as volatile tar, incinerator ash, molten cinders and associated chemical elements pose a risk to human health or the environment and to the extent of which HFM is present at the site.

1.2 Scope of Services

T&R performed the Subsurface Investigation in general accordance with the scope of work detailed in T&R's Subsurface Investigation Work Plan presented to and approved by the VA Medical Center prior to implementing the investigation. The services provided are outlined below:

- Advanced sixteen (16) Geoprobe® borings in HFM and non-HFM to evaluate and collect samples for onsite characterization purposes;
- Excavated nine (9) test pits within HFM and non-HFM locations for direct observation of test pit stratigraphy;
- Collected six (6) HFM characterization samples, and one native soil background sample;
- Field screening of Volatile Organic Compounds (VOCs) during the advancement of push probe borings and test pit excavations;
- Submission of this Site Characterization Report with support documentation including analytical reports, boring logs, test pit logs and HFM delineation Map (**Figure 2**)

2.0 INVESTIGATION METHODOLOGY

The investigation was conducted in general accordance with *Section 3.5.2, Remedial Investigation* and *Section 3.11 Historic Fill Material* of NYSDEC's manual titled "DER-10 / Technical Guidance for Site Investigation and Remediation" (DER-10).

Test pits and boring activities were overseen by a T&R Qualified Environmental Professional (QEP). The QEP was responsible classifying HFM and non-HFM soils as per NYSDEC DER-10 Section 3.5.1(c), and field screening HFM and non-HFM soils. The QEP documented field data by recording the findings on subsurface boring logs and test pit logs. Copies of these logs are provided as **Appendix B,** Soil Boring Logs, and **Appendix C**, Test Pit Excavation Logs.

T&R collected six (6) HFM samples in accordance with Section 3.11, Historic Fill Material of the DER 10 manual. The samples were submitted to an ELAP certified laboratory (Paradigm Environmental) for analysis of 8 RCRA metals, carcinogenic and non-carcinogenic polycyclic aromatic hydrocarbons, polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH).

The results of the HFM testing were compared to 6 NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives (SCOs), and 6 NYCRR Part 375-6.8(b) Restricted Commercial Use SCO's.

3.0 INVESTIGATION FINDINGS

The results of the investigation revealed HFM at various depths and was comprised of incinerator ash, cinders, molten glass, concrete and ceramic fragments, mixed with various sizes of stone aggregate. Soil borings B-13, B-14, and B-15 advanced in proximity to the north side of Building 201 contained a loose column of HFM beginning at approximately two feet below ground surface (bgs) to approximately 8 and 9 feet bgs. Similar observations were made from B-8 on the south side of the new building addition, B-7 within the entrance to the new Chiller Plant, and from B-3 and B-4 located in the grass median between the Harry Truman Parking Lot and Fort Hill Avenue. No evidence or very little evidence of HFM was observed from B-1, B-5, B-6, and B-16.

Test Pits TP-1, TP-2, and TP-3 were excavated topographically downgradient from the borings advanced in proximity to the north side of the building. The quantity or column of HFM depreciated as test pits advanced toward the base of the slope. An approximate two-foot column of HFM was observed from TP-1. Otherwise, greater volumes of construction / demolition debris (C&D) in the form of concrete, wood, stone, dirt, and miscellaneous debris constituted most of the material observed. In general, HFM was less prevalent from these test pits, and constituted less than 10% of the fill observed.

Although C&D was observed from TP-4, TP-6, and TP-7, HFM was either not observed or represented less than five percent of the total matrix from these Test Pits.

TP-5 excavated northeast of the new addition contained a large volume of dolomite surge stone and timbers beginning at one-foot bgs, underlain by mirafi fabric. Earlier VA facility drawings indicates that this was a former drywell for stormwater or floor drain discharges from Building 201. HFM was observed immediately underneath the fabric and extended to a depth of approximately eight feet bgs.

TP-8 was excavated on top of the south side berm of a recently constructed retention pond. Future disturbance of this area is scheduled for the installation of light poles. A seven-foot column of HFM was observed to a depth of eight-feet bgs. TP-9 was excavated 25-feet east of TP-8. Cobbles with gravelly soil was observed to a depth of five feet bgs, with native silt and clay beyond. No appreciable amount of HFM was observed.

The HFM samples and HFM exposed surfaces from the test pits were screened for volatile organic vapors using a photoionization detector (PID). No VOC vapors were detected from any of the HFM. As such, VOC analysis was not performed on any of the selected HFM samples.

A volatile tar like substance associated with buried drums was mixed with HFM while excavating the foundation for the Building 201 expansion. The VA Medical Center retained T&R to remove and dispose of the HFM and tar in December 2019. The excavation was limited to the future building footprint for the VA to maintain their construction schedule. Prior to backfilling the excavation, tar and remnants of corroded drums were observed along the east wall of the excavation. However, due to the presence of a buried sewer lateral and a two-inch force main lateral, T&R was unable to advance borings or test pits along the eastern edge of the former excavation. No evidence of tar or buried drums were observed from any of the boring or test pits conducted outside this area. As such, a limited amount of volatile tar is present in this area (Tar averaged 500.0 ppm on a PID meter).

In summary, HFM was most prevalent immediately north and northeast of Building 201 and extended south across the eastern one-third of the Harry Truman Parking lot, midway into the grass median separating Fort Hill Avenue from the parking lot. To gain a better perspective on surface area where HFM was observed and delineated, refer to **Figure 2**, Soil Boring & Test Pit Location Map.

4.0 ANALYTICAL RESULTS

HFM samples from SB-3, SB-7, SB-12, SB-14, TP-1 and TP-8 were collected and submitted to Paradigm Environmental for analysis of 8 RCRA metals, carcinogenic and noncarcinogenic polycyclic aromatic hydrocarbons, polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons as directed in Section 3.11, Historic Fill Material of the NYSDEC DER-10 manual. One soil background sample was also collected for analysis to compare HFM concentrations to that of naturally occurring background levels (if applicable).

The results of the HFM testing were compared to 6 NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives (SCOs), and 6 NYCRR Part 375-6.8(b) Restricted Commercial Use SCO's.

The laboratory results indicate that various heavy metals were detected above Unrestricted Use SCOs from each of the six HFM samples (See **Table 1**). Arsenic, Lead, Barium and Chromium were detected above Restricted Commercial Use SCOS from SB-3 (Arsenic), SB-14 (Arsenic), TP-1 (Arsenic, Barium, Chromium, & Lead), and TP-8 (Arsenic, Barium, Chromium, Lead).

Two (2) semi-volatile organic compounds, 2-Methylnapthalene reported at 0.761 ppm and Phenanthrene reported at 0.428 ppm were detected from SB-12, and one (1) SVOC, Phenanthrene was reported at 0.451 ppm from TP-1. 2-Methylnapthalene is not listed in Tables 375-6.8(a) or Table 375-6.8(b). The levels of Phenanthrene is below the Unrestricted Use SCO of 100.0 ppm.

A PCB detection of 0.278 ppm was reported from SB-12. This level is below the Unrestricted Use SCO of 1.0 ppm for PCBs.

Total Petroleum Hydrocarbon (TPH) testing was conducted as per DER 10 Guidelines for HFM as a gross measure of petroleum contamination for determining the relative potential for human health exposure. The average TPH concentration of the six samples was calculated at 65.52 ppm as Mineral Oil, with the most elevated concentration reported from TP-8 at 104 ppm. For comparison purposes, a TPH concentration of 23.2 was reported from the soil background sample. Since TPH is utilized as a gross measure of petroleum concentration and there is no NYSDEC regulatory SCO for TPH, it is the opinion of T&R's QEP, that TPH concentrations are relatively minor, and do not pose a risk to human health, nor are the levels cause to reduce the usability of the land.

The primary contaminants of concern from the HFM samples are the heavy metals, particularly Lead, Arsenic and Chromium. Table 1 on the following page provides a summary of the 8 RCRA Metal detections from each of the six (6) HFM samples. A copy of the analytical report is provided in **Appendix A.**

TABLE 1
Laboratory Analytical Results – 8 RCRA Metals
Building 201 – Subsurface Investigation
Canandaigua VA Medical Center
(Results in Parts Per Million (PPM)

Constituent	**SB-3 2-3' bgs**	**SB-7 3-5' bgs**	**SB-12 2-3' bgs**	**SB-14 4-5' bgs**	**TP-1 3' bgs**	**TP-8 3' bgs**	**Background Soil Result 2-5' bgs**	Unrestricted Use SCOs 6 NYCRR Part 375 Table 6.8(a)	Commercial Use SCOs 6 NYCRR Part 375 Table 6.8(a)
Arsenic	***26.2***	5.90	8.31	***19.7***	***53.9***	***117***	5.01	13.0	16
Barium	274	157	154	66.0	***894***	***467***	84.1	350	400
Cadmium	1.41	0.485	0.883	0.465	**3.78**	**3.32**	0.921	2.5	9.3
Chromium	**11.4**	**4.47**	**15.2**	**4.77**	***39.8***	***31.6***	**14.6**	1.0	19.0
Lead	21.5	3.07	**64.9**	1.87	***4,360***	***555***	9.17	63	450
Selenium	**3.93**	1.66	ND	1.57	**3.96**	ND	ND	3.9	4.0
Silver	ND	ND	ND	ND	**4.01**	**7.63**	ND	2.0	8.3
Mercury	0.173	0.112	0.117	.0379	**0.197**	**0.897**	.0541	0.18	0.73

Bold = Exceeds Unrestricted Use SCOs
Bold & Italics = Exceeds both Unrestricted and Restricted Commercial Use SCOs
ND = Non-Detect

5.0 CONCLUSION & RECOMMENDATIONS

T&R completed this subsurface investigation to better define the vertical and horizontal extent of Historic Fill Material within the vicinity of Building 201 of the Canandaigua VA Medical Center campus. Based on the findings, T&R determined that the HFM covers an estimated 38,000 to 45,000 square foot area surrounding Building 201 with density columns ranging from 2-feet to 9-feet below ground surface (See **Figure 2** for the estimated HFM coverage area).

The primary contaminants of concern because of analytical testing is the presence of heavy metals. T&R concludes that the probability exists that anywhere HFM is encountered, heavy metals concentrations above Part 375 Unrestricted Use SCOs and Restricted Commercial Use SCOs cannot be ruled out. As such, the following recommendations are made relative to HFM handling, disposal, re-use and worker health and safety:

5.1 HFM Handling:

HFM that is excavated or disturbed should be segregated from other non-impacted media, and handled in one or more of the following methods:

5.1.1 Landfill Disposal:

- Place on, and cover with, one or two layers of plastic sheeting. Secure plastic sheeting with sandbags or other suitable weight, and replace as needed if damaged by wind, site activities or other factors.
- Place HFM in New York State Department of Transportation approved 55-gallon drums with secure lids. Label drums with date, contents, and generator for subsequent disposal.
- Place in one or more lined roll-off dumpsters with secure cover for subsequent disposal. Directly load HFM into NYSDEC Part 364 permitted trucks or trailers.

If HFM is to be disposed of, a waste profile shall be prepared to obtain approval for disposal at an appropriate waste disposal facility (A current Profile remains active as a result of the Building 201 expansion remediation project until December 2020 for the disposal of HFM at Steuben County Landfill).

5.1.2 Volatile Tar Excavation / Disposal:

Due to the presence of underground utilities, T&R was unable to advance exploratory borings or test pits in proximity to the east sidewall of the December 2019 remedial excavation, where buried drums and volatile tar was observed and not removed. To petition for the closure of NYSDEC Spill File 1907154, T&R recommends that the HFM containing the drums and tar be removed and properly disposed of. T&R estimates that less than 300-tons of tar impacted HFM exists in this area.

5.1.3 Re-Use Option:

HFM that is identified as lower level HFM (e.g. Metal concentrations less than Unrestricted Use SCOs, and/or below Restricted Residential or Commercial Use SCOs) can be re-used on-site (upon approval from the NYSDEC) as backfill for the excavation from which it was taken, or as fill in similar physical characteristics on the Site. The HFM shall be covered with an impermeable material (e.g. asphalt), or a minimum 12 inches of clean soil or fill. In addition, if lower-level HFM is to be re-used, its geotechnical properties should also be considered. Regulatory approval is required and possibly additional sampling on a case by case basis might be requested before re-using the HFM on the Site.

T&R Recommends that a Qualified Environmental Professional (QEP) be consulted if HFM exceeding Part 375 Unrestricted Use SCOs is to be re-used on-site. Additional HFM characterization analysis beyond that of the analysis herein might be required on a case by case basis in addition to consultation with the NYSDEC before re-using HFM that exceeds applicable Part 365 SCOs.

5.2 Health & Safety:

The following Health and Safety recommendations and protocols assume that the work area where the HFM is identified is not an EPA, RCRA, CERCLA, or TSD Designated Hazardous Waste site. Further, hazardous waste determination analytical characterization was performed on the HFM during the December 2019 Building 201 expansion remediation project. The results demonstrated that the HFM did not have leachable characteristics or characteristics for Ignitability, Corrosivity and Reactivity. As such, it is T&R's opinion that the HFM is not a Resource Conservation & Recovery Act (RCRA) Hazardous Waste.

Based on the aforementioned assumption and previous hazardous waste determination, it is T&R's opinion that there is no requirement for on-site workers to be trained under OSHA 29 CFR 1910.120 HAZWOPER Standard. However, the Site owner (VA Medical) is responsible for making Site workers involved with intrusive activities (e.g. excavation) aware of potential heavy metals exposures that may be present in areas where HFM is delineated and/or suspected.

Based upon the levels of heavy metals reported from select HFM samples, a critical health and safety portion of this project involves the control of fugitive dust during worker excavation, load-out operations, or otherwise ground intrusive activities within the HFM area or other locations where HFM may be encountered.

If the particulate measurement is greater than 100 mcg/m3 above the background level, dust suppression techniques are recommended (e.g. misting), to reduce the generation of fugitive dust during intrusive activities. T&R recommends that the monitoring be conducted by a qualified environmental professional (QEP). The QEP can also advise site workers on proper PPE and HFM handling.

At a minimum, T&R recommends that that site workers perform intrusive activities under favorable weather conditions (e.g. low wind), and water down the HFM during excavation activities to reduce fugitive dust and health exposure.

FIGURE 1

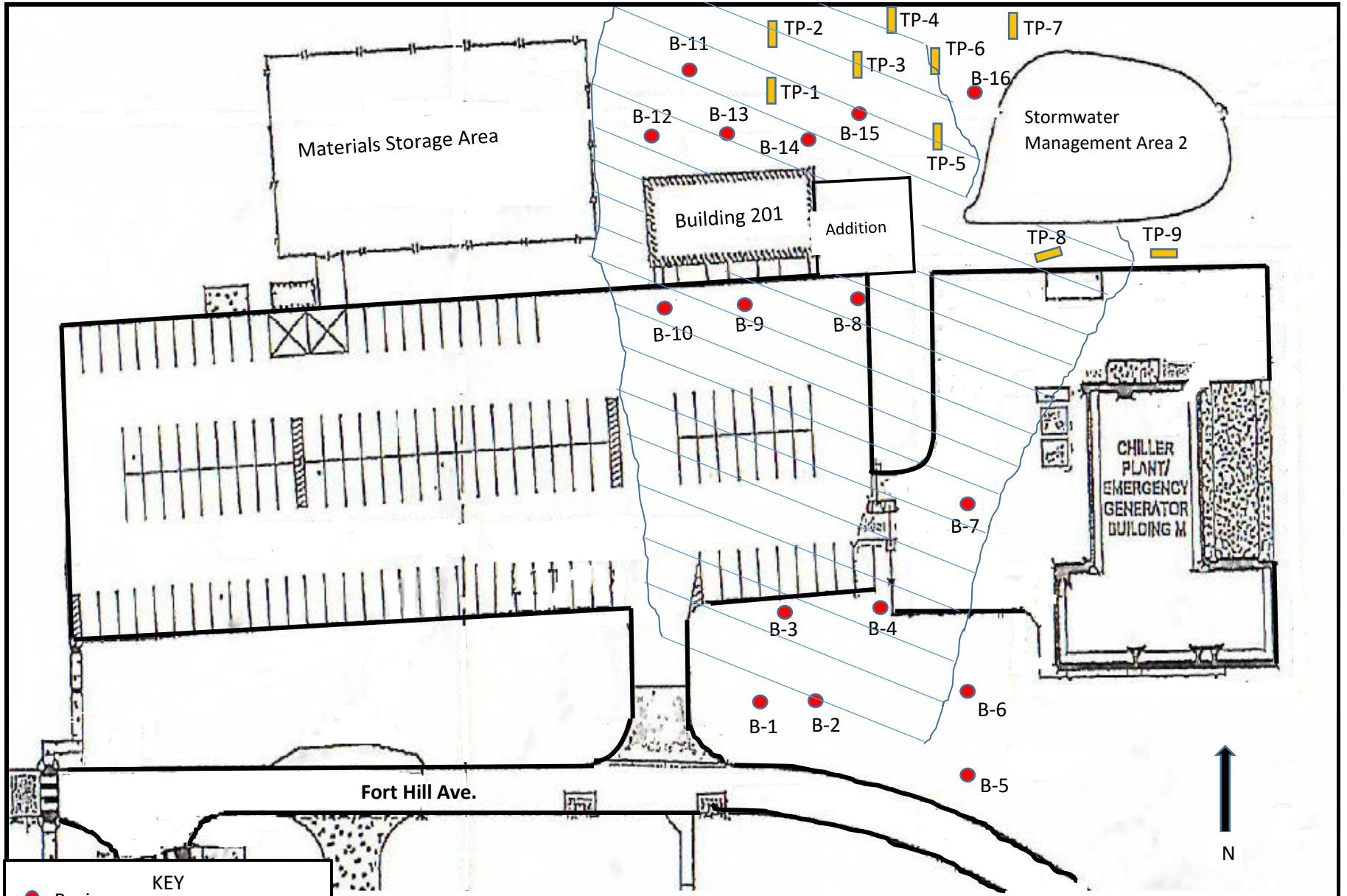
Site Location Map

Canandaigua VA Building 201
400 Fort Hill Avenue
Canandaigua, New York 14424

Figure 1
Site Location Map
Not to Scale

FIGURE 2

Test Pit & Boring Location Map



ENVIRONMENTAL

Canandaigua VA Building 201
400 Fort Hill Avenue
Canandaigua, New York 14424

Figure 2
Test Pit & Boring Location Map
(NTS)

APPENDIX A

Investigation Analytical Report

PARADIGM

ENVIRONMENTAL SERVICES, INC

Analytical Report For

T&R Spill Response

For Lab Project ID

202704

Referencing

Canandaigua VA Building 201

Prepared

Wednesday, June 24, 2020

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-3 2-3'		
Lab Sample ID:	202704-01	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.173**	mg/Kg		6/22/2020 09:01

Method Reference(s): EPA 7471B
Preparation Date: 6/19/2020
Data File: Hg200622B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**26.2**	mg/Kg		6/22/2020 19:29
Barium	**274**	mg/Kg		6/22/2020 19:29
Cadmium	**1.41**	mg/Kg		6/22/2020 19:29
Chromium	**11.4**	mg/Kg		6/22/2020 19:29
Lead	**21.5**	mg/Kg		6/22/2020 19:29
Selenium	**3.93**	mg/Kg		6/22/2020 19:29
Silver	< 0.552	mg/Kg		6/22/2020 19:29

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 6/18/2020
Data File: 200622B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.180	mg/Kg		6/19/2020 01:01
PCB-1221	< 0.180	mg/Kg		6/19/2020 01:01
PCB-1232	< 0.180	mg/Kg		6/19/2020 01:01
PCB-1242	< 0.180	mg/Kg		6/19/2020 01:01
PCB-1248	< 0.180	mg/Kg		6/19/2020 01:01
PCB-1254	< 0.180	mg/Kg		6/19/2020 01:01
PCB-1260	< 0.180	mg/Kg		6/19/2020 01:01
PCB-1262	< 0.180	mg/Kg		6/19/2020 01:01
PCB-1268	< 0.180	mg/Kg		6/19/2020 01:01

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-3 2-3'		
Lab Sample ID:	202704-01	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**66.8**	18.2 - 85.6		6/19/2020 01:01

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 6/18/2020

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Mineral Oil	**67.9**	mg/Kg		6/19/2020 16:14

Sample chromatogram not an exact match to reference chromatogram. Closest match made.
Method Reference(s): NYSDOH 310.13
Preparation Date: 6/18/2020
ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 326	ug/Kg		6/20/2020 02:15
1,2,4,5-Tetrachlorobenzene	< 326	ug/Kg		6/20/2020 02:15
1,2,4-Trichlorobenzene	< 326	ug/Kg		6/20/2020 02:15
1,2-Dichlorobenzene	< 326	ug/Kg		6/20/2020 02:15
1,3-Dichlorobenzene	< 326	ug/Kg		6/20/2020 02:15
1,4-Dichlorobenzene	< 326	ug/Kg		6/20/2020 02:15
2,2-Oxybis (1-chloropropane)	< 326	ug/Kg		6/20/2020 02:15
2,3,4,6-Tetrachlorophenol	< 326	ug/Kg		6/20/2020 02:15
2,4,5-Trichlorophenol	< 326	ug/Kg		6/20/2020 02:15
2,4,6-Trichlorophenol	< 326	ug/Kg		6/20/2020 02:15
2,4-Dichlorophenol	< 326	ug/Kg		6/20/2020 02:15
2,4-Dimethylphenol	< 326	ug/Kg		6/20/2020 02:15
2,4-Dinitrophenol	< 1300	ug/Kg		6/20/2020 02:15
2,4-Dinitrotoluene	< 326	ug/Kg		6/20/2020 02:15
2,6-Dinitrotoluene	< 326	ug/Kg		6/20/2020 02:15
2-Chloronaphthalene	< 326	ug/Kg		6/20/2020 02:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-3 2-3'		
Lab Sample ID:	202704-01	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

2-Chlorophenol	< 326	ug/Kg	6/20/2020	02:15
2-Methylnapthalene	< 326	ug/Kg	6/20/2020	02:15
2-Methylphenol	< 326	ug/Kg	6/20/2020	02:15
2-Nitroaniline	< 326	ug/Kg	6/20/2020	02:15
2-Nitrophenol	< 326	ug/Kg	6/20/2020	02:15
3&4-Methylphenol	< 326	ug/Kg	6/20/2020	02:15
3,3'-Dichlorobenzidine	< 326	ug/Kg	6/20/2020	02:15
3-Nitroaniline	< 326	ug/Kg	6/20/2020	02:15
4,6-Dinitro-2-methylphenol	< 436	ug/Kg	6/20/2020	02:15
4-Bromophenyl phenyl ether	< 326	ug/Kg	6/20/2020	02:15
4-Chloro-3-methylphenol	< 326	ug/Kg	6/20/2020	02:15
4-Chloroaniline	< 326	ug/Kg	6/20/2020	02:15
4-Chlorophenyl phenyl ether	< 326	ug/Kg	6/20/2020	02:15
4-Nitroaniline	< 326	ug/Kg	6/20/2020	02:15
4-Nitrophenol	< 326	ug/Kg	6/20/2020	02:15
Acenaphthene	< 326	ug/Kg	6/20/2020	02:15
Acenaphthylene	< 326	ug/Kg	6/20/2020	02:15
Acetophenone	< 326	ug/Kg	6/20/2020	02:15
Anthracene	< 326	ug/Kg	6/20/2020	02:15
Atrazine	< 326	ug/Kg	6/20/2020	02:15
Benzaldehyde	< 326	ug/Kg	6/20/2020	02:15
Benzo (a) anthracene	< 326	ug/Kg	6/20/2020	02:15
Benzo (a) pyrene	< 326	ug/Kg	6/20/2020	02:15
Benzo (b) fluoranthene	< 326	ug/Kg	6/20/2020	02:15
Benzo (g,h,i) perylene	< 326	ug/Kg	6/20/2020	02:15
Benzo (k) fluoranthene	< 326	ug/Kg	6/20/2020	02:15
Bis (2-chloroethoxy) methane	< 326	ug/Kg	6/20/2020	02:15
Bis (2-chloroethyl) ether	< 326	ug/Kg	6/20/2020	02:15
Bis (2-ethylhexyl) phthalate	< 326	ug/Kg	6/20/2020	02:15
Butylbenzylphthalate	< 326	ug/Kg	6/20/2020	02:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-3 2-3'		
Lab Sample ID:	202704-01	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Caprolactam	< 326	ug/Kg	6/20/2020	02:15
Carbazole	< 326	ug/Kg	6/20/2020	02:15
Chrysene	< 326	ug/Kg	6/20/2020	02:15
Dibenz (a,h) anthracene	< 326	ug/Kg	6/20/2020	02:15
Dibenzofuran	< 326	ug/Kg	6/20/2020	02:15
Diethyl phthalate	< 326	ug/Kg	6/20/2020	02:15
Dimethyl phthalate	< 326	ug/Kg	6/20/2020	02:15
Di-n-butyl phthalate	< 326	ug/Kg	6/20/2020	02:15
Di-n-octylphthalate	< 326	ug/Kg	6/20/2020	02:15
Fluoranthene	< 326	ug/Kg	6/20/2020	02:15
Fluorene	< 326	ug/Kg	6/20/2020	02:15
Hexachlorobenzene	< 326	ug/Kg	6/20/2020	02:15
Hexachlorobutadiene	< 326	ug/Kg	6/20/2020	02:15
Hexachlorocyclopentadiene	< 1300	ug/Kg	6/20/2020	02:15
Hexachloroethane	< 326	ug/Kg	6/20/2020	02:15
Indeno (1,2,3-cd) pyrene	< 326	ug/Kg	6/20/2020	02:15
Isophorone	< 326	ug/Kg	6/20/2020	02:15
Naphthalene	< 326	ug/Kg	6/20/2020	02:15
Nitrobenzene	< 326	ug/Kg	6/20/2020	02:15
N-Nitroso-di-n-propylamine	< 326	ug/Kg	6/20/2020	02:15
N-Nitrosodiphenylamine	< 326	ug/Kg	6/20/2020	02:15
Pentachlorophenol	< 651	ug/Kg	6/20/2020	02:15
Phenanthrene	< 326	ug/Kg	6/20/2020	02:15
Phenol	< 326	ug/Kg	6/20/2020	02:15
Pyrene	< 326	ug/Kg	6/20/2020	02:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-3 2-3'		
Lab Sample ID:	202704-01	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**48.2**	39 - 88.1		6/20/2020	02:15
2-Fluorobiphenyl	**51.2**	42.5 - 81.1		6/20/2020	02:15
2-Fluorophenol	**48.1**	39.8 - 77.3		6/20/2020	02:15
Nitrobenzene-d5	**50.2**	40.1 - 77.1		6/20/2020	02:15
Phenol-d5	**48.5**	41.7 - 76.6		6/20/2020	02:15
Terphenyl-d14	**49.8**	41.6 - 96.8		6/20/2020	02:15

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 6/19/2020
Data File: B47319.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-7 3-5'		
Lab Sample ID:	202704-02	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.112**	mg/Kg		6/22/2020 09:07

Method Reference(s): EPA 7471B
Preparation Date: 6/19/2020
Data File: Hg200622B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**5.90**	mg/Kg		6/22/2020 19:33
Barium	**157**	mg/Kg		6/22/2020 19:33
Cadmium	**0.485**	mg/Kg		6/22/2020 19:33
Chromium	**4.47**	mg/Kg		6/22/2020 19:33
Lead	**3.07**	mg/Kg		6/22/2020 19:33
Selenium	**1.66**	mg/Kg		6/22/2020 19:33
Silver	< 0.541	mg/Kg		6/22/2020 19:33

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 6/18/2020
Data File: 200622B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.184	mg/Kg		6/19/2020 02:11
PCB-1221	< 0.184	mg/Kg		6/19/2020 02:11
PCB-1232	< 0.184	mg/Kg		6/19/2020 02:11
PCB-1242	< 0.184	mg/Kg		6/19/2020 02:11
PCB-1248	< 0.184	mg/Kg		6/19/2020 02:11
PCB-1254	< 0.184	mg/Kg		6/19/2020 02:11
PCB-1260	< 0.184	mg/Kg		6/19/2020 02:11
PCB-1262	< 0.184	mg/Kg		6/19/2020 02:11
PCB-1268	< 0.184	mg/Kg		6/19/2020 02:11

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-7 3-5'		
Lab Sample ID:	202704-02	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**70.7**	18.2 - 85.6		6/19/2020 02:11

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 6/18/2020

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Mineral Oil	**59.7**	mg/Kg		6/19/2020 16:53

Sample chromatogram not an exact match to reference chromatogram. Closest match made.
Method Reference(s): NYSDOH 310.13
Preparation Date: 6/18/2020
ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 307	ug/Kg		6/20/2020 02:45
1,2,4,5-Tetrachlorobenzene	< 307	ug/Kg		6/20/2020 02:45
1,2,4-Trichlorobenzene	< 307	ug/Kg		6/20/2020 02:45
1,2-Dichlorobenzene	< 307	ug/Kg		6/20/2020 02:45
1,3-Dichlorobenzene	< 307	ug/Kg		6/20/2020 02:45
1,4-Dichlorobenzene	< 307	ug/Kg		6/20/2020 02:45
2,2-Oxybis (1-chloropropane)	< 307	ug/Kg		6/20/2020 02:45
2,3,4,6-Tetrachlorophenol	< 307	ug/Kg		6/20/2020 02:45
2,4,5-Trichlorophenol	< 307	ug/Kg		6/20/2020 02:45
2,4,6-Trichlorophenol	< 307	ug/Kg		6/20/2020 02:45
2,4-Dichlorophenol	< 307	ug/Kg		6/20/2020 02:45
2,4-Dimethylphenol	< 307	ug/Kg		6/20/2020 02:45
2,4-Dinitrophenol	< 1230	ug/Kg		6/20/2020 02:45
2,4-Dinitrotoluene	< 307	ug/Kg		6/20/2020 02:45
2,6-Dinitrotoluene	< 307	ug/Kg		6/20/2020 02:45
2-Chloronaphthalene	< 307	ug/Kg		6/20/2020 02:45

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-7 3-5'		
Lab Sample ID:	202704-02	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

2-Chlorophenol	< 307	ug/Kg	6/20/2020	02:45
2-Methylnapthalene	**408**	ug/Kg	6/20/2020	02:45
2-Methylphenol	< 307	ug/Kg	6/20/2020	02:45
2-Nitroaniline	< 307	ug/Kg	6/20/2020	02:45
2-Nitrophenol	< 307	ug/Kg	6/20/2020	02:45
3&4-Methylphenol	< 307	ug/Kg	6/20/2020	02:45
3,3'-Dichlorobenzidine	< 307	ug/Kg	6/20/2020	02:45
3-Nitroaniline	< 307	ug/Kg	6/20/2020	02:45
4,6-Dinitro-2-methylphenol	< 411	ug/Kg	6/20/2020	02:45
4-Bromophenyl phenyl ether	< 307	ug/Kg	6/20/2020	02:45
4-Chloro-3-methylphenol	< 307	ug/Kg	6/20/2020	02:45
4-Chloroaniline	< 307	ug/Kg	6/20/2020	02:45
4-Chlorophenyl phenyl ether	< 307	ug/Kg	6/20/2020	02:45
4-Nitroaniline	< 307	ug/Kg	6/20/2020	02:45
4-Nitrophenol	< 307	ug/Kg	6/20/2020	02:45
Acenaphthene	< 307	ug/Kg	6/20/2020	02:45
Acenaphthylene	< 307	ug/Kg	6/20/2020	02:45
Acetophenone	< 307	ug/Kg	6/20/2020	02:45
Anthracene	< 307	ug/Kg	6/20/2020	02:45
Atrazine	< 307	ug/Kg	6/20/2020	02:45
Benzaldehyde	< 307	ug/Kg	6/20/2020	02:45
Benzo (a) anthracene	< 307	ug/Kg	6/20/2020	02:45
Benzo (a) pyrene	< 307	ug/Kg	6/20/2020	02:45
Benzo (b) fluoranthene	< 307	ug/Kg	6/20/2020	02:45
Benzo (g,h,i) perylene	< 307	ug/Kg	6/20/2020	02:45
Benzo (k) fluoranthene	< 307	ug/Kg	6/20/2020	02:45
Bis (2-chloroethoxy) methane	< 307	ug/Kg	6/20/2020	02:45
Bis (2-chloroethyl) ether	< 307	ug/Kg	6/20/2020	02:45
Bis (2-ethylhexyl) phthalate	< 307	ug/Kg	6/20/2020	02:45
Butylbenzylphthalate	< 307	ug/Kg	6/20/2020	02:45

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-7 3-5'		
Lab Sample ID:	202704-02	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Caprolactam	< 307	ug/Kg	6/20/2020	02:45
Carbazole	< 307	ug/Kg	6/20/2020	02:45
Chrysene	< 307	ug/Kg	6/20/2020	02:45
Dibenz (a,h) anthracene	< 307	ug/Kg	6/20/2020	02:45
Dibenzofuran	< 307	ug/Kg	6/20/2020	02:45
Diethyl phthalate	< 307	ug/Kg	6/20/2020	02:45
Dimethyl phthalate	< 307	ug/Kg	6/20/2020	02:45
Di-n-butyl phthalate	< 307	ug/Kg	6/20/2020	02:45
Di-n-octylphthalate	< 307	ug/Kg	6/20/2020	02:45
Fluoranthene	< 307	ug/Kg	6/20/2020	02:45
Fluorene	< 307	ug/Kg	6/20/2020	02:45
Hexachlorobenzene	< 307	ug/Kg	6/20/2020	02:45
Hexachlorobutadiene	< 307	ug/Kg	6/20/2020	02:45
Hexachlorocyclopentadiene	< 1230	ug/Kg	6/20/2020	02:45
Hexachloroethane	< 307	ug/Kg	6/20/2020	02:45
Indeno (1,2,3-cd) pyrene	< 307	ug/Kg	6/20/2020	02:45
Isophorone	< 307	ug/Kg	6/20/2020	02:45
Naphthalene	< 307	ug/Kg	6/20/2020	02:45
Nitrobenzene	< 307	ug/Kg	6/20/2020	02:45
N-Nitroso-di-n-propylamine	< 307	ug/Kg	6/20/2020	02:45
N-Nitrosodiphenylamine	< 307	ug/Kg	6/20/2020	02:45
Pentachlorophenol	< 615	ug/Kg	6/20/2020	02:45
Phenanthrene	< 307	ug/Kg	6/20/2020	02:45
Phenol	< 307	ug/Kg	6/20/2020	02:45
Pyrene	< 307	ug/Kg	6/20/2020	02:45

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-7 3-5'		
Lab Sample ID:	202704-02	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**49.3**	39 - 88.1		6/20/2020	02:45
2-Fluorobiphenyl	**57.8**	42.5 - 81.1		6/20/2020	02:45
2-Fluorophenol	**50.1**	39.8 - 77.3		6/20/2020	02:45
Nitrobenzene-d5	**54.4**	40.1 - 77.1		6/20/2020	02:45
Phenol-d5	**52.0**	41.7 - 76.6		6/20/2020	02:45
Terphenyl-d14	**58.3**	41.6 - 96.8		6/20/2020	02:45

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 6/19/2020
Data File: B47320.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-12 2-3'		
Lab Sample ID:	202704-03	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.117**	mg/Kg		6/22/2020 09:09

Method Reference(s): EPA 7471B
Preparation Date: 6/19/2020
Data File: Hg200622B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**8.31**	mg/Kg		6/22/2020 19:38
Barium	**154**	mg/Kg		6/22/2020 19:38
Cadmium	**0.883**	mg/Kg		6/22/2020 19:38
Chromium	**15.2**	mg/Kg		6/22/2020 19:38
Lead	**64.9**	mg/Kg		6/22/2020 19:38
Selenium	< 1.07	mg/Kg		6/22/2020 19:38
Silver	< 0.535	mg/Kg		6/22/2020 19:38

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 6/18/2020
Data File: 200622B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.158	mg/Kg		6/19/2020 02:34
PCB-1221	< 0.158	mg/Kg		6/19/2020 02:34
PCB-1232	< 0.158	mg/Kg		6/19/2020 02:34
PCB-1242	< 0.158	mg/Kg		6/19/2020 02:34
PCB-1248	< 0.158	mg/Kg		6/19/2020 02:34
PCB-1254	< 0.158	mg/Kg		6/19/2020 02:34
PCB-1260	**0.278**	mg/Kg		6/19/2020 02:34
PCB-1262	< 0.158	mg/Kg		6/19/2020 02:34
PCB-1268	< 0.158	mg/Kg		6/19/2020 02:34

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-12 2-3'		
Lab Sample ID:	202704-03	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**78.8**	18.2 - 85.6		6/19/2020 02:34

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 6/18/2020

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Mineral Oil	**47.5**	mg/Kg		6/19/2020 17:32

Sample chromatogram not an exact match to reference chromatogram. Closest match made.
Method Reference(s): NYSDOH 310.13
Preparation Date: 6/18/2020
ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 313	ug/Kg		6/20/2020 06:14
1,2,4,5-Tetrachlorobenzene	< 313	ug/Kg		6/20/2020 06:14
1,2,4-Trichlorobenzene	< 313	ug/Kg		6/20/2020 06:14
1,2-Dichlorobenzene	< 313	ug/Kg		6/20/2020 06:14
1,3-Dichlorobenzene	< 313	ug/Kg		6/20/2020 06:14
1,4-Dichlorobenzene	< 313	ug/Kg		6/20/2020 06:14
2,2-Oxybis (1-chloropropane)	< 313	ug/Kg		6/20/2020 06:14
2,3,4,6-Tetrachlorophenol	< 313	ug/Kg		6/20/2020 06:14
2,4,5-Trichlorophenol	< 313	ug/Kg		6/20/2020 06:14
2,4,6-Trichlorophenol	< 313	ug/Kg		6/20/2020 06:14
2,4-Dichlorophenol	< 313	ug/Kg		6/20/2020 06:14
2,4-Dimethylphenol	< 313	ug/Kg		6/20/2020 06:14
2,4-Dinitrophenol	< 1250	ug/Kg		6/20/2020 06:14
2,4-Dinitrotoluene	< 313	ug/Kg		6/20/2020 06:14
2,6-Dinitrotoluene	< 313	ug/Kg		6/20/2020 06:14
2-Chloronaphthalene	< 313	ug/Kg		6/20/2020 06:14

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-12 2-3'		
Lab Sample ID:	202704-03	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

2-Chlorophenol	< 313	ug/Kg	6/20/2020	06:14
2-Methylnapthalene	**761**	ug/Kg	6/20/2020	06:14
2-Methylphenol	< 313	ug/Kg	6/20/2020	06:14
2-Nitroaniline	< 313	ug/Kg	6/20/2020	06:14
2-Nitrophenol	< 313	ug/Kg	6/20/2020	06:14
3&4-Methylphenol	< 313	ug/Kg	6/20/2020	06:14
3,3'-Dichlorobenzidine	< 313	ug/Kg	6/20/2020	06:14
3-Nitroaniline	< 313	ug/Kg	6/20/2020	06:14
4,6-Dinitro-2-methylphenol	< 419	ug/Kg	6/20/2020	06:14
4-Bromophenyl phenyl ether	< 313	ug/Kg	6/20/2020	06:14
4-Chloro-3-methylphenol	< 313	ug/Kg	6/20/2020	06:14
4-Chloroaniline	< 313	ug/Kg	6/20/2020	06:14
4-Chlorophenyl phenyl ether	< 313	ug/Kg	6/20/2020	06:14
4-Nitroaniline	< 313	ug/Kg	6/20/2020	06:14
4-Nitrophenol	< 313	ug/Kg	6/20/2020	06:14
Acenaphthene	< 313	ug/Kg	6/20/2020	06:14
Acenaphthylene	< 313	ug/Kg	6/20/2020	06:14
Acetophenone	< 313	ug/Kg	6/20/2020	06:14
Anthracene	< 313	ug/Kg	6/20/2020	06:14
Atrazine	< 313	ug/Kg	6/20/2020	06:14
Benzaldehyde	< 313	ug/Kg	6/20/2020	06:14
Benzo (a) anthracene	< 313	ug/Kg	6/20/2020	06:14
Benzo (a) pyrene	< 313	ug/Kg	6/20/2020	06:14
Benzo (b) fluoranthene	< 313	ug/Kg	6/20/2020	06:14
Benzo (g,h,i) perylene	< 313	ug/Kg	6/20/2020	06:14
Benzo (k) fluoranthene	< 313	ug/Kg	6/20/2020	06:14
Bis (2-chloroethoxy) methane	< 313	ug/Kg	6/20/2020	06:14
Bis (2-chloroethyl) ether	< 313	ug/Kg	6/20/2020	06:14
Bis (2-ethylhexyl) phthalate	< 313	ug/Kg	6/20/2020	06:14
Butylbenzylphthalate	< 313	ug/Kg	6/20/2020	06:14

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-12 2-3'		
Lab Sample ID:	202704-03	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Caprolactam	< 313	ug/Kg	6/20/2020	06:14
Carbazole	< 313	ug/Kg	6/20/2020	06:14
Chrysene	< 313	ug/Kg	6/20/2020	06:14
Dibenz (a,h) anthracene	< 313	ug/Kg	6/20/2020	06:14
Dibenzofuran	< 313	ug/Kg	6/20/2020	06:14
Diethyl phthalate	< 313	ug/Kg	6/20/2020	06:14
Dimethyl phthalate	< 313	ug/Kg	6/20/2020	06:14
Di-n-butyl phthalate	< 313	ug/Kg	6/20/2020	06:14
Di-n-octylphthalate	< 313	ug/Kg	6/20/2020	06:14
Fluoranthene	< 313	ug/Kg	6/20/2020	06:14
Fluorene	< 313	ug/Kg	6/20/2020	06:14
Hexachlorobenzene	< 313	ug/Kg	6/20/2020	06:14
Hexachlorobutadiene	< 313	ug/Kg	6/20/2020	06:14
Hexachlorocyclopentadiene	< 1250	ug/Kg	6/20/2020	06:14
Hexachloroethane	< 313	ug/Kg	6/20/2020	06:14
Indeno (1,2,3-cd) pyrene	< 313	ug/Kg	6/20/2020	06:14
Isophorone	< 313	ug/Kg	6/20/2020	06:14
Naphthalene	< 313	ug/Kg	6/20/2020	06:14
Nitrobenzene	< 313	ug/Kg	6/20/2020	06:14
N-Nitroso-di-n-propylamine	< 313	ug/Kg	6/20/2020	06:14
N-Nitrosodiphenylamine	< 313	ug/Kg	6/20/2020	06:14
Pentachlorophenol	< 626	ug/Kg	6/20/2020	06:14
Phenanthrene	**428**	ug/Kg	6/20/2020	06:14
Phenol	< 313	ug/Kg	6/20/2020	06:14
Pyrene	< 313	ug/Kg	6/20/2020	06:14

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-12 2-3'		
Lab Sample ID:	202704-03	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**63.1**	39 - 88.1		6/20/2020	06:14
2-Fluorobiphenyl	**72.1**	42.5 - 81.1		6/20/2020	06:14
2-Fluorophenol	**64.7**	39.8 - 77.3		6/20/2020	06:14
Nitrobenzene-d5	**68.1**	40.1 - 77.1		6/20/2020	06:14
Phenol-d5	**64.7**	41.7 - 76.6		6/20/2020	06:14
Terphenyl-d14	**73.3**	41.6 - 96.8		6/20/2020	06:14

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 6/19/2020
Data File: B47327.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-14 4-5'		
Lab Sample ID:	202704-04	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0379**	mg/Kg		6/22/2020 09:11

Method Reference(s): EPA 7471B
Preparation Date: 6/19/2020
Data File: Hg200622B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**19.7**	mg/Kg		6/22/2020 19:42
Barium	**66.0**	mg/Kg		6/22/2020 19:42
Cadmium	**0.465**	mg/Kg		6/22/2020 19:42
Chromium	**4.77**	mg/Kg		6/22/2020 19:42
Lead	**1.87**	mg/Kg		6/23/2020 10:50
Selenium	**1.57**	mg/Kg		6/22/2020 19:42
Silver	< 0.554	mg/Kg		6/22/2020 19:42

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 6/18/2020
Data File: 200622B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.188	mg/Kg		6/19/2020 02:58
PCB-1221	< 0.188	mg/Kg		6/19/2020 02:58
PCB-1232	< 0.188	mg/Kg		6/19/2020 02:58
PCB-1242	< 0.188	mg/Kg		6/19/2020 02:58
PCB-1248	< 0.188	mg/Kg		6/19/2020 02:58
PCB-1254	< 0.188	mg/Kg		6/19/2020 02:58
PCB-1260	< 0.188	mg/Kg		6/19/2020 02:58
PCB-1262	< 0.188	mg/Kg		6/19/2020 02:58
PCB-1268	< 0.188	mg/Kg		6/19/2020 02:58

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-14 4-5'		
Lab Sample ID:	202704-04	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**73.2**	18.2 - 85.6		6/19/2020 02:58

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 6/18/2020

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Mineral Oil	**29.2**	mg/Kg		6/19/2020 18:11

Sample chromatogram not an exact match to reference chromatogram. Closest match made.
Method Reference(s): NYSDOH 310.13
Preparation Date: 6/18/2020
ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 320	ug/Kg		6/20/2020 06:43
1,2,4,5-Tetrachlorobenzene	< 320	ug/Kg		6/20/2020 06:43
1,2,4-Trichlorobenzene	< 320	ug/Kg		6/20/2020 06:43
1,2-Dichlorobenzene	< 320	ug/Kg		6/20/2020 06:43
1,3-Dichlorobenzene	< 320	ug/Kg		6/20/2020 06:43
1,4-Dichlorobenzene	< 320	ug/Kg		6/20/2020 06:43
2,2-Oxybis (1-chloropropane)	< 320	ug/Kg		6/20/2020 06:43
2,3,4,6-Tetrachlorophenol	< 320	ug/Kg		6/20/2020 06:43
2,4,5-Trichlorophenol	< 320	ug/Kg		6/20/2020 06:43
2,4,6-Trichlorophenol	< 320	ug/Kg		6/20/2020 06:43
2,4-Dichlorophenol	< 320	ug/Kg		6/20/2020 06:43
2,4-Dimethylphenol	< 320	ug/Kg		6/20/2020 06:43
2,4-Dinitrophenol	< 1280	ug/Kg		6/20/2020 06:43
2,4-Dinitrotoluene	< 320	ug/Kg		6/20/2020 06:43
2,6-Dinitrotoluene	< 320	ug/Kg		6/20/2020 06:43
2-Chloronaphthalene	< 320	ug/Kg		6/20/2020 06:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-14 4-5'		
Lab Sample ID:	202704-04	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

2-Chlorophenol	< 320	ug/Kg	6/20/2020	06:43
2-Methylnapthalene	< 320	ug/Kg	6/20/2020	06:43
2-Methylphenol	< 320	ug/Kg	6/20/2020	06:43
2-Nitroaniline	< 320	ug/Kg	6/20/2020	06:43
2-Nitrophenol	< 320	ug/Kg	6/20/2020	06:43
3&4-Methylphenol	< 320	ug/Kg	6/20/2020	06:43
3,3'-Dichlorobenzidine	< 320	ug/Kg	6/20/2020	06:43
3-Nitroaniline	< 320	ug/Kg	6/20/2020	06:43
4,6-Dinitro-2-methylphenol	< 428	ug/Kg	6/20/2020	06:43
4-Bromophenyl phenyl ether	< 320	ug/Kg	6/20/2020	06:43
4-Chloro-3-methylphenol	< 320	ug/Kg	6/20/2020	06:43
4-Chloroaniline	< 320	ug/Kg	6/20/2020	06:43
4-Chlorophenyl phenyl ether	< 320	ug/Kg	6/20/2020	06:43
4-Nitroaniline	< 320	ug/Kg	6/20/2020	06:43
4-Nitrophenol	< 320	ug/Kg	6/20/2020	06:43
Acenaphthene	< 320	ug/Kg	6/20/2020	06:43
Acenaphthylene	< 320	ug/Kg	6/20/2020	06:43
Acetophenone	< 320	ug/Kg	6/20/2020	06:43
Anthracene	< 320	ug/Kg	6/20/2020	06:43
Atrazine	< 320	ug/Kg	6/20/2020	06:43
Benzaldehyde	< 320	ug/Kg	6/20/2020	06:43
Benzo (a) anthracene	< 320	ug/Kg	6/20/2020	06:43
Benzo (a) pyrene	< 320	ug/Kg	6/20/2020	06:43
Benzo (b) fluoranthene	< 320	ug/Kg	6/20/2020	06:43
Benzo (g,h,i) perylene	< 320	ug/Kg	6/20/2020	06:43
Benzo (k) fluoranthene	< 320	ug/Kg	6/20/2020	06:43
Bis (2-chloroethoxy) methane	< 320	ug/Kg	6/20/2020	06:43
Bis (2-chloroethyl) ether	< 320	ug/Kg	6/20/2020	06:43
Bis (2-ethylhexyl) phthalate	< 320	ug/Kg	6/20/2020	06:43
Butylbenzylphthalate	< 320	ug/Kg	6/20/2020	06:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-14 4-5'		
Lab Sample ID:	202704-04	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Caprolactam	< 320	ug/Kg	6/20/2020	06:43
Carbazole	< 320	ug/Kg	6/20/2020	06:43
Chrysene	< 320	ug/Kg	6/20/2020	06:43
Dibenz (a,h) anthracene	< 320	ug/Kg	6/20/2020	06:43
Dibenzofuran	< 320	ug/Kg	6/20/2020	06:43
Diethyl phthalate	< 320	ug/Kg	6/20/2020	06:43
Dimethyl phthalate	< 320	ug/Kg	6/20/2020	06:43
Di-n-butyl phthalate	< 320	ug/Kg	6/20/2020	06:43
Di-n-octylphthalate	< 320	ug/Kg	6/20/2020	06:43
Fluoranthene	< 320	ug/Kg	6/20/2020	06:43
Fluorene	< 320	ug/Kg	6/20/2020	06:43
Hexachlorobenzene	< 320	ug/Kg	6/20/2020	06:43
Hexachlorobutadiene	< 320	ug/Kg	6/20/2020	06:43
Hexachlorocyclopentadiene	< 1280	ug/Kg	6/20/2020	06:43
Hexachloroethane	< 320	ug/Kg	6/20/2020	06:43
Indeno (1,2,3-cd) pyrene	< 320	ug/Kg	6/20/2020	06:43
Isophorone	< 320	ug/Kg	6/20/2020	06:43
Naphthalene	< 320	ug/Kg	6/20/2020	06:43
Nitrobenzene	< 320	ug/Kg	6/20/2020	06:43
N-Nitroso-di-n-propylamine	< 320	ug/Kg	6/20/2020	06:43
N-Nitrosodiphenylamine	< 320	ug/Kg	6/20/2020	06:43
Pentachlorophenol	< 640	ug/Kg	6/20/2020	06:43
Phenanthrene	< 320	ug/Kg	6/20/2020	06:43
Phenol	< 320	ug/Kg	6/20/2020	06:43
Pyrene	< 320	ug/Kg	6/20/2020	06:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	SB-14 4-5'		
Lab Sample ID:	202704-04	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**42.7**	39 - 88.1		6/20/2020	06:43
2-Fluorobiphenyl	**55.4**	42.5 - 81.1		6/20/2020	06:43
2-Fluorophenol	**45.6**	39.8 - 77.3		6/20/2020	06:43
Nitrobenzene-d5	**53.1**	40.1 - 77.1		6/20/2020	06:43
Phenol-d5	**47.2**	41.7 - 76.6		6/20/2020	06:43
Terphenyl-d14	**56.2**	41.6 - 96.8		6/20/2020	06:43

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 6/19/2020
Data File: B47328.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	TP-1 3'		
Lab Sample ID:	202704-05	**Date Sampled:**	6/16/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.197**	mg/Kg		6/22/2020 09:13

Method Reference(s): EPA 7471B
Preparation Date: 6/19/2020
Data File: Hg200622B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**53.9**	mg/Kg		6/22/2020 19:47
Barium	**894**	mg/Kg		6/22/2020 19:47
Cadmium	**3.78**	mg/Kg		6/22/2020 19:47
Chromium	**39.8**	mg/Kg		6/22/2020 19:47
Lead	**4360**	mg/Kg		6/23/2020 10:54
Selenium	**3.96**	mg/Kg		6/23/2020 10:18
Silver	**4.01**	mg/Kg		6/22/2020 19:47

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 6/18/2020
Data File: 200622B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.137	mg/Kg		6/19/2020 03:21
PCB-1221	< 0.137	mg/Kg		6/19/2020 03:21
PCB-1232	< 0.137	mg/Kg		6/19/2020 03:21
PCB-1242	< 0.137	mg/Kg		6/19/2020 03:21
PCB-1248	< 0.137	mg/Kg		6/19/2020 03:21
PCB-1254	< 0.137	mg/Kg		6/19/2020 03:21
PCB-1260	< 0.137	mg/Kg		6/19/2020 03:21
PCB-1262	< 0.137	mg/Kg		6/19/2020 03:21
PCB-1268	< 0.137	mg/Kg		6/19/2020 03:21

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	TP-1 3'		
Lab Sample ID:	202704-05	**Date Sampled:**	6/16/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**76.0**	18.2 - 85.6		6/19/2020 03:21

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 6/18/2020

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Mineral Oil	**84.8**	mg/Kg		6/19/2020 18:50

Sample chromatogram not an exact match to reference chromatogram. Closest match made.
Method Reference(s): NYSDOH 310.13
Preparation Date: 6/18/2020
ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 326	ug/Kg		6/20/2020 07:13
1,2,4,5-Tetrachlorobenzene	< 326	ug/Kg		6/20/2020 07:13
1,2,4-Trichlorobenzene	< 326	ug/Kg		6/20/2020 07:13
1,2-Dichlorobenzene	< 326	ug/Kg		6/20/2020 07:13
1,3-Dichlorobenzene	< 326	ug/Kg		6/20/2020 07:13
1,4-Dichlorobenzene	< 326	ug/Kg		6/20/2020 07:13
2,2-Oxybis (1-chloropropane)	< 326	ug/Kg		6/20/2020 07:13
2,3,4,6-Tetrachlorophenol	< 326	ug/Kg		6/20/2020 07:13
2,4,5-Trichlorophenol	< 326	ug/Kg		6/20/2020 07:13
2,4,6-Trichlorophenol	< 326	ug/Kg		6/20/2020 07:13
2,4-Dichlorophenol	< 326	ug/Kg		6/20/2020 07:13
2,4-Dimethylphenol	< 326	ug/Kg		6/20/2020 07:13
2,4-Dinitrophenol	< 1300	ug/Kg		6/20/2020 07:13
2,4-Dinitrotoluene	< 326	ug/Kg		6/20/2020 07:13
2,6-Dinitrotoluene	< 326	ug/Kg		6/20/2020 07:13
2-Chloronaphthalene	< 326	ug/Kg		6/20/2020 07:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	TP-1 3'		
Lab Sample ID:	202704-05	**Date Sampled:**	6/16/2020
Matrix:	Soil	**Date Received:**	6/17/2020

2-Chlorophenol	< 326	ug/Kg	6/20/2020	07:13
2-Methylnapthalene	< 326	ug/Kg	6/20/2020	07:13
2-Methylphenol	< 326	ug/Kg	6/20/2020	07:13
2-Nitroaniline	< 326	ug/Kg	6/20/2020	07:13
2-Nitrophenol	< 326	ug/Kg	6/20/2020	07:13
3&4-Methylphenol	< 326	ug/Kg	6/20/2020	07:13
3,3'-Dichlorobenzidine	< 326	ug/Kg	6/20/2020	07:13
3-Nitroaniline	< 326	ug/Kg	6/20/2020	07:13
4,6-Dinitro-2-methylphenol	< 436	ug/Kg	6/20/2020	07:13
4-Bromophenyl phenyl ether	< 326	ug/Kg	6/20/2020	07:13
4-Chloro-3-methylphenol	< 326	ug/Kg	6/20/2020	07:13
4-Chloroaniline	< 326	ug/Kg	6/20/2020	07:13
4-Chlorophenyl phenyl ether	< 326	ug/Kg	6/20/2020	07:13
4-Nitroaniline	< 326	ug/Kg	6/20/2020	07:13
4-Nitrophenol	< 326	ug/Kg	6/20/2020	07:13
Acenaphthene	< 326	ug/Kg	6/20/2020	07:13
Acenaphthylene	< 326	ug/Kg	6/20/2020	07:13
Acetophenone	< 326	ug/Kg	6/20/2020	07:13
Anthracene	< 326	ug/Kg	6/20/2020	07:13
Atrazine	< 326	ug/Kg	6/20/2020	07:13
Benzaldehyde	< 326	ug/Kg	6/20/2020	07:13
Benzo (a) anthracene	< 326	ug/Kg	6/20/2020	07:13
Benzo (a) pyrene	< 326	ug/Kg	6/20/2020	07:13
Benzo (b) fluoranthene	< 326	ug/Kg	6/20/2020	07:13
Benzo (g,h,i) perylene	< 326	ug/Kg	6/20/2020	07:13
Benzo (k) fluoranthene	< 326	ug/Kg	6/20/2020	07:13
Bis (2-chloroethoxy) methane	< 326	ug/Kg	6/20/2020	07:13
Bis (2-chloroethyl) ether	< 326	ug/Kg	6/20/2020	07:13
Bis (2-ethylhexyl) phthalate	< 326	ug/Kg	6/20/2020	07:13
Butylbenzylphthalate	< 326	ug/Kg	6/20/2020	07:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	TP-1 3'		
Lab Sample ID:	202704-05	**Date Sampled:**	6/16/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Caprolactam	< 326	ug/Kg	6/20/2020	07:13
Carbazole	< 326	ug/Kg	6/20/2020	07:13
Chrysene	< 326	ug/Kg	6/20/2020	07:13
Dibenz (a,h) anthracene	< 326	ug/Kg	6/20/2020	07:13
Dibenzofuran	< 326	ug/Kg	6/20/2020	07:13
Diethyl phthalate	< 326	ug/Kg	6/20/2020	07:13
Dimethyl phthalate	< 326	ug/Kg	6/20/2020	07:13
Di-n-butyl phthalate	< 326	ug/Kg	6/20/2020	07:13
Di-n-octylphthalate	< 326	ug/Kg	6/20/2020	07:13
Fluoranthene	< 326	ug/Kg	6/20/2020	07:13
Fluorene	< 326	ug/Kg	6/20/2020	07:13
Hexachlorobenzene	< 326	ug/Kg	6/20/2020	07:13
Hexachlorobutadiene	< 326	ug/Kg	6/20/2020	07:13
Hexachlorocyclopentadiene	< 1300	ug/Kg	6/20/2020	07:13
Hexachloroethane	< 326	ug/Kg	6/20/2020	07:13
Indeno (1,2,3-cd) pyrene	< 326	ug/Kg	6/20/2020	07:13
Isophorone	< 326	ug/Kg	6/20/2020	07:13
Naphthalene	< 326	ug/Kg	6/20/2020	07:13
Nitrobenzene	< 326	ug/Kg	6/20/2020	07:13
N-Nitroso-di-n-propylamine	< 326	ug/Kg	6/20/2020	07:13
N-Nitrosodiphenylamine	< 326	ug/Kg	6/20/2020	07:13
Pentachlorophenol	< 652	ug/Kg	6/20/2020	07:13
Phenanthrene	**451**	ug/Kg	6/20/2020	07:13
Phenol	< 326	ug/Kg	6/20/2020	07:13
Pyrene	< 326	ug/Kg	6/20/2020	07:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	TP-1 3'		
Lab Sample ID:	202704-05	**Date Sampled:**	6/16/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**51.7**	39 - 88.1		6/20/2020	07:13
2-Fluorobiphenyl	**57.9**	42.5 - 81.1		6/20/2020	07:13
2-Fluorophenol	**51.3**	39.8 - 77.3		6/20/2020	07:13
Nitrobenzene-d5	**56.4**	40.1 - 77.1		6/20/2020	07:13
Phenol-d5	**51.5**	41.7 - 76.6		6/20/2020	07:13
Terphenyl-d14	**59.0**	41.6 - 96.8		6/20/2020	07:13

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 6/19/2020
Data File: B47329.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	TP-8 3'		
Lab Sample ID:	202704-06	**Date Sampled:**	6/16/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.897**	mg/Kg		6/22/2020 09:36

Method Reference(s): EPA 7471B
Preparation Date: 6/19/2020
Data File: Hg200622B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**117**	mg/Kg		6/22/2020 19:50
Barium	**467**	mg/Kg		6/22/2020 19:50
Cadmium	**3.32**	mg/Kg		6/22/2020 19:50
Chromium	**31.6**	mg/Kg		6/22/2020 19:50
Lead	**555**	mg/Kg		6/22/2020 19:50
Selenium	< 1.28	mg/Kg		6/22/2020 19:50
Silver	**7.63**	mg/Kg		6/22/2020 19:50

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 6/18/2020
Data File: 200622B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.185	mg/Kg		6/19/2020 10:34
PCB-1221	< 0.185	mg/Kg		6/19/2020 10:34
PCB-1232	< 0.185	mg/Kg		6/19/2020 10:34
PCB-1242	< 0.185	mg/Kg		6/19/2020 10:34
PCB-1248	< 0.185	mg/Kg		6/19/2020 10:34
PCB-1254	< 0.185	mg/Kg		6/19/2020 10:34
PCB-1260	**0.365**	mg/Kg		6/19/2020 10:34
PCB-1262	< 0.185	mg/Kg		6/19/2020 10:34
PCB-1268	< 0.185	mg/Kg		6/19/2020 10:34

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	TP-8 3'		
Lab Sample ID:	202704-06	**Date Sampled:**	6/16/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**53.0**	18.2 - 85.6		6/19/2020 10:34

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 6/18/2020

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Mineral Oil	**104**	mg/Kg		6/19/2020 19:29

Method Reference(s): NYSDOH 310.13
Preparation Date: 6/18/2020
ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 390	ug/Kg		6/20/2020 07:43
1,2,4,5-Tetrachlorobenzene	< 390	ug/Kg		6/20/2020 07:43
1,2,4-Trichlorobenzene	< 390	ug/Kg		6/20/2020 07:43
1,2-Dichlorobenzene	< 390	ug/Kg		6/20/2020 07:43
1,3-Dichlorobenzene	< 390	ug/Kg		6/20/2020 07:43
1,4-Dichlorobenzene	< 390	ug/Kg		6/20/2020 07:43
2,2-Oxybis (1-chloropropane)	< 390	ug/Kg		6/20/2020 07:43
2,3,4,6-Tetrachlorophenol	< 390	ug/Kg		6/20/2020 07:43
2,4,5-Trichlorophenol	< 390	ug/Kg		6/20/2020 07:43
2,4,6-Trichlorophenol	< 390	ug/Kg		6/20/2020 07:43
2,4-Dichlorophenol	< 390	ug/Kg		6/20/2020 07:43
2,4-Dimethylphenol	< 390	ug/Kg		6/20/2020 07:43
2,4-Dinitrophenol	< 1560	ug/Kg		6/20/2020 07:43
2,4-Dinitrotoluene	< 390	ug/Kg		6/20/2020 07:43
2,6-Dinitrotoluene	< 390	ug/Kg		6/20/2020 07:43
2-Chloronaphthalene	< 390	ug/Kg		6/20/2020 07:43
2-Chlorophenol	< 390	ug/Kg		6/20/2020 07:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	TP-8 3'		
Lab Sample ID:	202704-06	**Date Sampled:**	6/16/2020
Matrix:	Soil	**Date Received:**	6/17/2020

2-Methylnapthalene	< 390	ug/Kg	6/20/2020	07:43
2-Methylphenol	< 390	ug/Kg	6/20/2020	07:43
2-Nitroaniline	< 390	ug/Kg	6/20/2020	07:43
2-Nitrophenol	< 390	ug/Kg	6/20/2020	07:43
3&4-Methylphenol	< 390	ug/Kg	6/20/2020	07:43
3,3'-Dichlorobenzidine	< 390	ug/Kg	6/20/2020	07:43
3-Nitroaniline	< 390	ug/Kg	6/20/2020	07:43
4,6-Dinitro-2-methylphenol	< 521	ug/Kg	6/20/2020	07:43
4-Bromophenyl phenyl ether	< 390	ug/Kg	6/20/2020	07:43
4-Chloro-3-methylphenol	< 390	ug/Kg	6/20/2020	07:43
4-Chloroaniline	< 390	ug/Kg	6/20/2020	07:43
4-Chlorophenyl phenyl ether	< 390	ug/Kg	6/20/2020	07:43
4-Nitroaniline	< 390	ug/Kg	6/20/2020	07:43
4-Nitrophenol	< 390	ug/Kg	6/20/2020	07:43
Acenaphthene	< 390	ug/Kg	6/20/2020	07:43
Acenaphthylene	< 390	ug/Kg	6/20/2020	07:43
Acetophenone	< 390	ug/Kg	6/20/2020	07:43
Anthracene	< 390	ug/Kg	6/20/2020	07:43
Atrazine	< 390	ug/Kg	6/20/2020	07:43
Benzaldehyde	< 390	ug/Kg	6/20/2020	07:43
Benzo (a) anthracene	< 390	ug/Kg	6/20/2020	07:43
Benzo (a) pyrene	< 390	ug/Kg	6/20/2020	07:43
Benzo (b) fluoranthene	< 390	ug/Kg	6/20/2020	07:43
Benzo (g,h,i) perylene	< 390	ug/Kg	6/20/2020	07:43
Benzo (k) fluoranthene	< 390	ug/Kg	6/20/2020	07:43
Bis (2-chloroethoxy) methane	< 390	ug/Kg	6/20/2020	07:43
Bis (2-chloroethyl) ether	< 390	ug/Kg	6/20/2020	07:43
Bis (2-ethylhexyl) phthalate	< 390	ug/Kg	6/20/2020	07:43
Butylbenzylphthalate	< 390	ug/Kg	6/20/2020	07:43
Caprolactam	< 390	ug/Kg	6/20/2020	07:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	TP-8 3'		
Lab Sample ID:	202704-06	**Date Sampled:**	6/16/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Carbazole	< 390	ug/Kg	6/20/2020	07:43
Chrysene	< 390	ug/Kg	6/20/2020	07:43
Dibenz (a,h) anthracene	< 390	ug/Kg	6/20/2020	07:43
Dibenzofuran	< 390	ug/Kg	6/20/2020	07:43
Diethyl phthalate	< 390	ug/Kg	6/20/2020	07:43
Dimethyl phthalate	< 390	ug/Kg	6/20/2020	07:43
Di-n-butyl phthalate	< 390	ug/Kg	6/20/2020	07:43
Di-n-octylphthalate	< 390	ug/Kg	6/20/2020	07:43
Fluoranthene	< 390	ug/Kg	6/20/2020	07:43
Fluorene	< 390	ug/Kg	6/20/2020	07:43
Hexachlorobenzene	< 390	ug/Kg	6/20/2020	07:43
Hexachlorobutadiene	< 390	ug/Kg	6/20/2020	07:43
Hexachlorocyclopentadiene	< 1560	ug/Kg	6/20/2020	07:43
Hexachloroethane	< 390	ug/Kg	6/20/2020	07:43
Indeno (1,2,3-cd) pyrene	< 390	ug/Kg	6/20/2020	07:43
Isophorone	< 390	ug/Kg	6/20/2020	07:43
Naphthalene	< 390	ug/Kg	6/20/2020	07:43
Nitrobenzene	< 390	ug/Kg	6/20/2020	07:43
N-Nitroso-di-n-propylamine	< 390	ug/Kg	6/20/2020	07:43
N-Nitrosodiphenylamine	< 390	ug/Kg	6/20/2020	07:43
Pentachlorophenol	< 779	ug/Kg	6/20/2020	07:43
Phenanthrene	< 390	ug/Kg	6/20/2020	07:43
Phenol	< 390	ug/Kg	6/20/2020	07:43
Pyrene	< 390	ug/Kg	6/20/2020	07:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	TP-8 3'		
Lab Sample ID:	202704-06	**Date Sampled:**	6/16/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**43.4**	39 - 88.1		6/20/2020	07:43
2-Fluorobiphenyl	**49.2**	42.5 - 81.1		6/20/2020	07:43
2-Fluorophenol	**42.8**	39.8 - 77.3		6/20/2020	07:43
Nitrobenzene-d5	**49.0**	40.1 - 77.1		6/20/2020	07:43
Phenol-d5	**43.8**	41.7 - 76.6		6/20/2020	07:43
Terphenyl-d14	**49.5**	41.6 - 96.8		6/20/2020	07:43

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 6/19/2020
Data File: B47330.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	Background 2-5'		
Lab Sample ID:	202704-07	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0541**	mg/Kg		6/22/2020 09:17

Method Reference(s): EPA 7471B
Preparation Date: 6/19/2020
Data File: Hg200622B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**5.01**	mg/Kg		6/22/2020 19:53
Barium	**84.1**	mg/Kg		6/22/2020 19:53
Cadmium	**0.921**	mg/Kg		6/22/2020 19:53
Chromium	**14.6**	mg/Kg		6/22/2020 19:53
Lead	**9.17**	mg/Kg		6/22/2020 19:53
Selenium	< 1.10	mg/Kg		6/22/2020 19:53
Silver	< 0.550	mg/Kg		6/22/2020 19:53

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 6/18/2020
Data File: 200622B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.134	mg/Kg		6/19/2020 08:02
PCB-1221	< 0.134	mg/Kg		6/19/2020 08:02
PCB-1232	< 0.134	mg/Kg		6/19/2020 08:02
PCB-1242	< 0.134	mg/Kg		6/19/2020 08:02
PCB-1248	< 0.134	mg/Kg		6/19/2020 08:02
PCB-1254	< 0.134	mg/Kg		6/19/2020 08:02
PCB-1260	< 0.134	mg/Kg		6/19/2020 08:02
PCB-1262	< 0.134	mg/Kg		6/19/2020 08:02
PCB-1268	< 0.134	mg/Kg		6/19/2020 08:02

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	Background 2-5'		
Lab Sample ID:	202704-07	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**75.6**	18.2 - 85.6		6/19/2020 08:02

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 6/18/2020

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Heavy weight PHC as Lube Oil	**23.2**	mg/Kg		6/19/2020 20:08

Method Reference(s): NYSDOH 310.13
Preparation Date: 6/18/2020
ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 323	ug/Kg		6/20/2020 08:13
1,2,4,5-Tetrachlorobenzene	< 323	ug/Kg		6/20/2020 08:13
1,2,4-Trichlorobenzene	< 323	ug/Kg		6/20/2020 08:13
1,2-Dichlorobenzene	< 323	ug/Kg		6/20/2020 08:13
1,3-Dichlorobenzene	< 323	ug/Kg		6/20/2020 08:13
1,4-Dichlorobenzene	< 323	ug/Kg		6/20/2020 08:13
2,2-Oxybis (1-chloropropane)	< 323	ug/Kg		6/20/2020 08:13
2,3,4,6-Tetrachlorophenol	< 323	ug/Kg		6/20/2020 08:13
2,4,5-Trichlorophenol	< 323	ug/Kg		6/20/2020 08:13
2,4,6-Trichlorophenol	< 323	ug/Kg		6/20/2020 08:13
2,4-Dichlorophenol	< 323	ug/Kg		6/20/2020 08:13
2,4-Dimethylphenol	< 323	ug/Kg		6/20/2020 08:13
2,4-Dinitrophenol	< 1290	ug/Kg		6/20/2020 08:13
2,4-Dinitrotoluene	< 323	ug/Kg		6/20/2020 08:13
2,6-Dinitrotoluene	< 323	ug/Kg		6/20/2020 08:13
2-Chloronaphthalene	< 323	ug/Kg		6/20/2020 08:13
2-Chlorophenol	< 323	ug/Kg		6/20/2020 08:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	Background 2-5'		
Lab Sample ID:	202704-07	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

2-Methylnapthalene	< 323	ug/Kg	6/20/2020	08:13
2-Methylphenol	< 323	ug/Kg	6/20/2020	08:13
2-Nitroaniline	< 323	ug/Kg	6/20/2020	08:13
2-Nitrophenol	< 323	ug/Kg	6/20/2020	08:13
3&4-Methylphenol	< 323	ug/Kg	6/20/2020	08:13
3,3'-Dichlorobenzidine	< 323	ug/Kg	6/20/2020	08:13
3-Nitroaniline	< 323	ug/Kg	6/20/2020	08:13
4,6-Dinitro-2-methylphenol	< 432	ug/Kg	6/20/2020	08:13
4-Bromophenyl phenyl ether	< 323	ug/Kg	6/20/2020	08:13
4-Chloro-3-methylphenol	< 323	ug/Kg	6/20/2020	08:13
4-Chloroaniline	< 323	ug/Kg	6/20/2020	08:13
4-Chlorophenyl phenyl ether	< 323	ug/Kg	6/20/2020	08:13
4-Nitroaniline	< 323	ug/Kg	6/20/2020	08:13
4-Nitrophenol	< 323	ug/Kg	6/20/2020	08:13
Acenaphthene	< 323	ug/Kg	6/20/2020	08:13
Acenaphthylene	< 323	ug/Kg	6/20/2020	08:13
Acetophenone	< 323	ug/Kg	6/20/2020	08:13
Anthracene	< 323	ug/Kg	6/20/2020	08:13
Atrazine	< 323	ug/Kg	6/20/2020	08:13
Benzaldehyde	< 323	ug/Kg	6/20/2020	08:13
Benzo (a) anthracene	< 323	ug/Kg	6/20/2020	08:13
Benzo (a) pyrene	< 323	ug/Kg	6/20/2020	08:13
Benzo (b) fluoranthene	< 323	ug/Kg	6/20/2020	08:13
Benzo (g,h,i) perylene	< 323	ug/Kg	6/20/2020	08:13
Benzo (k) fluoranthene	< 323	ug/Kg	6/20/2020	08:13
Bis (2-chloroethoxy) methane	< 323	ug/Kg	6/20/2020	08:13
Bis (2-chloroethyl) ether	< 323	ug/Kg	6/20/2020	08:13
Bis (2-ethylhexyl) phthalate	< 323	ug/Kg	6/20/2020	08:13
Butylbenzylphthalate	< 323	ug/Kg	6/20/2020	08:13
Caprolactam	< 323	ug/Kg	6/20/2020	08:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	Background 2-5'		
Lab Sample ID:	202704-07	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Carbazole	< 323	ug/Kg	6/20/2020	08:13
Chrysene	< 323	ug/Kg	6/20/2020	08:13
Dibenz (a,h) anthracene	< 323	ug/Kg	6/20/2020	08:13
Dibenzofuran	< 323	ug/Kg	6/20/2020	08:13
Diethyl phthalate	< 323	ug/Kg	6/20/2020	08:13
Dimethyl phthalate	< 323	ug/Kg	6/20/2020	08:13
Di-n-butyl phthalate	< 323	ug/Kg	6/20/2020	08:13
Di-n-octylphthalate	< 323	ug/Kg	6/20/2020	08:13
Fluoranthene	< 323	ug/Kg	6/20/2020	08:13
Fluorene	< 323	ug/Kg	6/20/2020	08:13
Hexachlorobenzene	< 323	ug/Kg	6/20/2020	08:13
Hexachlorobutadiene	< 323	ug/Kg	6/20/2020	08:13
Hexachlorocyclopentadiene	< 1290	ug/Kg	6/20/2020	08:13
Hexachloroethane	< 323	ug/Kg	6/20/2020	08:13
Indeno (1,2,3-cd) pyrene	< 323	ug/Kg	6/20/2020	08:13
Isophorone	< 323	ug/Kg	6/20/2020	08:13
Naphthalene	< 323	ug/Kg	6/20/2020	08:13
Nitrobenzene	< 323	ug/Kg	6/20/2020	08:13
N-Nitroso-di-n-propylamine	< 323	ug/Kg	6/20/2020	08:13
N-Nitrosodiphenylamine	< 323	ug/Kg	6/20/2020	08:13
Pentachlorophenol	< 645	ug/Kg	6/20/2020	08:13
Phenanthrene	< 323	ug/Kg	6/20/2020	08:13
Phenol	< 323	ug/Kg	6/20/2020	08:13
Pyrene	< 323	ug/Kg	6/20/2020	08:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202704

Client: **T&R Spill Response**

Project Reference: Canandaigua VA Building 201

Sample Identifier:	Background 2-5'		
Lab Sample ID:	202704-07	**Date Sampled:**	6/15/2020
Matrix:	Soil	**Date Received:**	6/17/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**68.0**	39 - 88.1		6/20/2020	08:13
2-Fluorobiphenyl	**71.2**	42.5 - 81.1		6/20/2020	08:13
2-Fluorophenol	**64.0**	39.8 - 77.3		6/20/2020	08:13
Nitrobenzene-d5	**70.3**	40.1 - 77.1		6/20/2020	08:13
Phenol-d5	**64.2**	41.7 - 76.6		6/20/2020	08:13
Terphenyl-d14	**75.5**	41.6 - 96.8		6/20/2020	08:13

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 6/19/2020
Data File: B47331.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

APPENDIX B

Boring Logs

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-1
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	No HFM observed	ND	Brown, dry medium dense Silt and medium sand
2			Brown, dry loose Gravel and silt, some medium sand
3			
4			Brown, dry dense SILT, some medium sand, little clay, little fine gravel
5			
6			
7			
8			
9			
10			Brown, very dense moist SILT, some clay, some fine gravel
15			
20			
25			
30			

*** Sample Types:** Split Spoon (SS) Continuous Core (CC)	**** Drilling Method Options:** Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem	**Symbols to Use:** v – Static Water Level s – sample collected
Observation Date:		

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-2
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	HFM observed 2 - 3' collumn	ND	Brown, dry medium dense Silt and medium sand
2			HFM - Molten cinders, ash, glass, ceramic fragments
3			
4			Brown, dry denseCLAY, somesilt, little fine gravel
5			
6			
7			Brown wet dense SILT, some clay
8			
9			
10			Brown, very dense moist SILT,and clay,little fine gravel
15			
20			
25			
30			

*** Sample Types:** Split Spoon (SS) Continuous Core (CC)	**** Drilling Method Options:** Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem		**Symbols to Use:** v – Static Water Level s – sample collected	
Observation Date:				
Time				

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-3
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	HFM observed 2 - 6' collumn. Sample collected for analysis	ND	Brown, dry medium SAND, some silt
2			HFM - Molten cinders, ash, glass, ceramic fragments
3			
4			
5			HFM with concrete fragments, dry
6			
7			Brown wet dense CLAY, little silt, little fine gravel
8			
9			
10			Brown, very dense moist SILT,and clay,little fine gravel
15			
20			
25			
30			

* Sample Types: Split Spoon (SS) Continuous Core (CC)	** Drilling Method Options: Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem	Symbols to Use: v – Static Water Level s – sample collected

Observation Date:				
Time				

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-4
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	HFM observed 2 - 7' collumn.	ND	Brown, dry medium SILT and medium sand
2			HFM - Molten cinders, ash, glass, ceramic fragments
3			
4			
5			
6			
7			
8			Brown, dense moist CLAY, some fine gravel, little silt
9			
10			
15			
20			
25			
30			

*** Sample Types:** Split Spoon (SS) Continuous Core (CC)	**** Drilling Method Options:** Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem	**Symbols to Use:** v – Static Water Level s – sample collected
Observation Date:		

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-5
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	No HFM Observed	ND	Brown, dry loose SILT and medium sand
2			Brown dry loose SILT and sand, little clay, little fine gravel
3			
4			
5			Brown, moist, dense CLAY, some silt and fine gravel
6			
7			
8			
9			
10			
15			
20			
25			
30			

*** Sample Types:** Split Spoon (SS) Continuous Core (CC)	**** Drilling Method Options:** Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem	**Symbols to Use:** v – Static Water Level s – sample collected

Observation Date:				
Time				

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-6
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	No HFM Observed	ND	Brown, dry loose SAND and fine gravel, little silt
2			Brown dry loose SILT, some sand, little clay, little fine gravel
3			
4			
5			Brown, moist, dense CLAY, some silt, littlefine gravel
6			
7			
8			
9			
10			
15			
20			
25			
30			

* Sample Types: Split Spoon (SS) Continuous Core (CC)	** Drilling Method Options: Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem	Symbols to Use: v – Static Water Level s – sample collected

Observation Date:				
Time				

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-7
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	Sample collected for analysis 3 - 5'	ND	Asphalt
2	HFM observed 3 - 9' bgs		Crushed gravel
3			HFM - molten cinder, ash, brick fragments, glass
4			
5			
6			
7			
8			
9			
10			Brown, wet, dense CLAY, little silt, little fine gravel
15			
20			
25			
30			

*** Sample Types:** Split Spoon (SS) Continuous Core (CC)	**** Drilling Method Options:** Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem		**Symbols to Use:** v – Static Water Level s – sample collected	
Observation Date:				
Time				

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-8
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	HFM observed 2 - 9' collumn	ND	Asphalt
2			Crushed gravel & HFM mixture
3			HFM - molten cinder, ash, brick fragments, glass
4			
5			
6			
7			
8			
9			
10			Brown, wet, dense SILT & sand, some fine gravel, little clay
15			
20			
25			
30			

* Sample Types: Split Spoon (SS) Continuous Core (CC)	** Drilling Method Options: Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem	Symbols to Use: v – Static Water Level s – sample collected

Observation Date:				
Time				

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-9
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	HFM observed 2 - 4' collumn	ND	Asphalt & crushed stone
2			HFM - molten cinder, ash, brick fragments, glass
3			
4			
5			Brown, wet dense CLAY and silt, little fine gravel
6			
7			
8			
9			
10			
15			
20			
25			
30			

*** Sample Types:** Split Spoon (SS) Continuous Core (CC)	**** Drilling Method Options:** Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem		**Symbols to Use:** v – Static Water Level s – sample collected	
Observation Date:				
Time				

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-10
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	HFM observed 2 - 4' collumn	ND	Asphalt & crushed stone
2			HFM - molten cinder, ash, brick fragments, glass
3			
4			Brown, moist dense SILT, some medium sand, little fine gravel
5			
6			
7			
8			
9			Brown moist very dense SILT and clay, little fine gravel
10			
15			
20			
25			
30			

*** Sample Types:** Split Spoon (SS) Continuous Core (CC)	**** Drilling Method Options:** Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem		**Symbols to Use:** v – Static Water Level s – sample collected	
Observation Date:				
Time				

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-11
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	HFM observed 2 - 3' collumn	ND	Brown dry SILT and sand, some fine gravel
2			HFM - molten cinder, ash, brick fragments, glass
3			
4			Brown, moist dense SILT, trace fine gravel
5			
6			
7			
8			
9			Brown moist very dense SILT and clay, little fine gravel
10			
15			
20			
25			
30			

*** Sample Types:** Split Spoon (SS) Continuous Core (CC)	**** Drilling Method Options:** Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem		**Symbols to Use:** v – Static Water Level s – sample collected	
Observation Date:				
Time				

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-12
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	HFM observed 2 - 3' collumn. Sample collected for analysis	ND	Crushed stone
2			HFM - molten cinder, ash, brick fragments, glass
3			
4			Brown, moist dense SILT and clay, some fine gravel
5			
6			
7			
8			
9			
10			
15			
20			
25			
30			

* Sample Types: Split Spoon (SS) Continuous Core (CC)	** Drilling Method Options: Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem	Symbols to Use: v – Static Water Level s – sample collected

Observation Date:				
Time				

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-13
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	HFM observed 3 - 7' collumn.	ND	Crushed stone
2			
3			HFM and some Silty sand
4			HFM - molten cinders, ash, glass fragments
5			
6			
7			
8			Brown, wet dense SILT, some clay, little fine gravel
9			
10			
15			
20			
25			
30			

*** Sample Types:** Split Spoon (SS) Continuous Core (CC)	**** Drilling Method Options:** Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem		**Symbols to Use:** v – Static Water Level s – sample collected	
Observation Date:				
Time				

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-14
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	HFM observed 3 - 7' collumn. Sample collected for analysis.	ND	Crushed stone
2			
3			HFM - molten cinders, ash, glass fragments
4			
5			
6			
7			
8			Brown, wet dense SILT, some clay, little fine gravel
9			
10			
15			
20			
25			
30			

*** Sample Types:** Split Spoon (SS) Continuous Core (CC)	**** Drilling Method Options:** Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem		**Symbols to Use:** v – Static Water Level s – sample collected	
Observation Date:				
Time				

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-15
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	HFM observed 2 - 9' collumn.	ND	Seeded topsoil
2			HFM - molten cinders, ash, glass fragments
3			
4			
5			
6			
7			
8			
9			Brown, moist very dense CLAY, some fine gravel, trace silt
10			
15			
20			
25			
30			

* Sample Types: Split Spoon (SS) Continuous Core (CC)	** Drilling Method Options: Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem	Symbols to Use: v – Static Water Level s – sample collected

Observation Date:				
Time				

Soil Boring Log And Monitoring Well Construction Diagram for:

Facility Name: Canandaigua VA Bldg. 201	Soil Boring No.: SB-16
Contractor Name: T&R Environmental	Drilling Method: Geoprobe
Contractor Registration Number:	Boring Depth (ft) x Diameter (in): 10' x 2"
Logged by: Frank Thomas	Ground Surface Elevation (ASL):
Start Date: 06/15/2020 6/15/2020	Top of Casing Elevation (ASL):

Depth (feet)	Well Construction Details / Notes	PID / FID PPM	Sample Descriptions: soil, color, classification, observation Example: Silty clay, dark gray, hard, moist, strong odor
1	Minor HFM observed at 2 - 3'	ND	Brown, dry SILT and medium sand, little fine gravel
2			Brown dry SILT, trace Clay, little fine gravel (< 5% HFM)
3			
4			Brown, dry dense SILT, some medium sand, little fine gravel
5			
6			
7			
8			
9			Brown, moist very dense SILT, some clay, little fine gravel
10			
15			
20			
25			
30			

*** Sample Types:** Split Spoon (SS) Continuous Core (CC)	**** Drilling Method Options:** Rotary Auger, Push Probe, Hand Auger, Air drilling, Hollow Stem		**Symbols to Use:** v – Static Water Level s – sample collected	
Observation Date:				
Time				

APPENDIX C

Test Pit Excavation Logs

Soil Test Pit Log Forms

Project: VA Subsurface Investigation Test Pits Logged By: FRT

Location: Building 201 Test Pit Number: TP-1`

Weather Conditions: Sunny 75
Method of Excavation: Mini Excavator Date: 06/16/20
Ground Surface Slope: _____% Time: 08:30

DEPTH (Feet)	TEXTURE	CONSISTENCE	COLOR	MOTTLES or REDOX FEATURES	STRUCTURE	COMMENTS
0 - 1	loamy sand	Dry	Brown		loose	overlying topsoil / grass
1 - 4	Historic fill	Dry	various		loose	Ash cinders, brick, stone
4 - 6	Silty clay	Dry	Brown		firm / friable	Native subsurface soils

Weather Conditions Sunny 75
Method of Excavation: Mini Excavator Date: 06/16/20
Test Pit #: TP-2 Ground Surface Slope _____% Time 09:15

DEPTH (Inches)	TEXTURE	CONSISTENCE	COLOR	MOTTLES or REDOX. FEATURES	STRUCTURE	COMMENTS
0 - 1	loamy sand	Dry	Brown		loose	overlying topsoil / grass
1 - 4	Const. / Demo Debris	Dry	Varies		loose, blocky	< 10% incinerator ash
4 - 6'	Silty Clay	Dry	Brown		tight	native subsoil

Soil Test Pit Log Forms

Project: Canandaigua VA Test Pits Logged By: FRT

Location: Building 201 Test Pit Number: TP-3

Weather Conditions: Sunny 75
Method of Excavation: Mini Excavator Date: 06/16/20
Ground Surface Slope: _____% Time: 09:00

DEPTH (Inches)	TEXTURE	CONSISTENCE	COLOR	MOTTLES or REDOX FEATURES	STRUCTURE	COMMENTS
0 - 1	loamy sand	Dry	Brown		loose	overlying topsoil / grass
1 - 5	C&D Debris	Dry	varies		loose / blocky	Brick, stone, soil, metal, concrete, cinders
5 - 7	Silty clay	Dry	brown		tight / friable	Native subsoil and rock

Weather Conditions Sunny 75
Method of Excavation: Mini Excavator Date: 06/16/20
Test Pit #: TP-4 Ground Surface Slope _____% Time 09:45

DEPTH (Inches)	TEXTURE	CONSISTENCE	COLOR	MOTTLES or REDOX. FEATURES	STRUCTURE	COMMENTS
0 - 3	silty clay & gravel	Moist	Brown		Loose	C&D & ceramic fragments 20%
3 - 6	Silty clay	Moist	Brown	Iron oxide mottles	Firm	Native subsoil, some organics

Soil Test Pit Log Forms

Project: Canandaigua VA Test Pits Logged By: FRT

Location: Building 201 Test Pit Number: TP-5

Weather Conditions: Sunny 75
Method of Excavation: Mini Excavator Date: 06/16/20
Ground Surface Slope: _____% Time: 10:15

DEPTH (Inches)	TEXTURE	CONSISTENCE	COLOR	MOTTLES or REDOX FEATURES	STRUCTURE	COMMENTS
0 - 3	Bony Cobbles	Dry, Dusty	Various		loose blocky	Dolomite Surge stone
						& Timbers over fabric
3 - 8	Historic Fill	Dry	black		loose	Ash, cinder, brick,
						asphalt
8 - 9	Native silt & clay	moist	brown		dense	clean native material

Weather Conditions Sunny 75
Method of Excavation: Mini Excavator Date: 06/16/20
Test Pit #: TP-6 Ground Surface Slope _____% Time 10:50

DEPTH (Inches)	TEXTURE	CONSISTENCE	COLOR	MOTTLES or REDOX. FEATURES	STRUCTURE	COMMENTS
0 - 6	Silty sand, some	Dry	Brown		loose, blocky	No HFM observed. mostly
	C&D (asphalt,					C&D and native soil
	concrete, brick					

Soil Test Pit Log Forms

Project: Canandaigua VA Test Pits Logged By: FRT

Location: Building 201 Test Pit Number: TP-7

Weather Conditions: Sunny 75
Method of Excavation: Mini Excavator Date: 06/16/20
Ground Surface Slope: _____% Time: 11:30

DEPTH (Inches)	TEXTURE	CONSISTENCE	COLOR	MOTTLES or REDOX FEATURES	STRUCTURE	COMMENTS
0 - 4	Silty loam &	Dry	Brown		loose	
	Gravel					
4 - 5	washed peastone	Dry	Gray		loose	bed of foreign peastone
	imported					
5 - 6	Native clay	moist	Brown	Iron oxide mottles	Dense, stiff	No HFM encountered

Weather Conditions Sunny 75
Method of Excavation: Mini Excavator Date: 06.16.20
Test Pit #: TP-8 Ground Surface Slope _____% Time_____

DEPTH (Inches)	TEXTURE	CONSISTENCE	COLOR	MOTTLES or REDOX. FEATURES	STRUCTURE	COMMENTS
2 - 8'	HFM	Dry	Varies		loose grainy	Incinerator ash, brick, cinders
						ceramic, stones
8 - 9	Silty clay	moist	Brown		Dense, friable	Native subsoil.

Soil Test Pit Log Forms

Project: Canandaigua VA Test Pits Logged By: FRT

Location: Building 201 Test Pit Number: TP-9

Weather Conditions: Sunny 75
Method of Excavation: Mini Excavator Date: 06/16/20
Ground Surface Slope: _____% Time: 11:00

DEPTH (Inches)	TEXTURE	CONSISTENCE	COLOR	MOTTLES or REDOX FEATURES	STRUCTURE	COMMENTS
0 - 5	Boulder, gravel, silt	Dry	Brown		Loose, Blocky	large boulders, cobbles
						gravel. No HFM
5 - 7	Silty sand, gravel	Dry	Brown		Dense, friable	No HFM observed

Weather Conditions_____
Method of Excavation:_____ Date:_____
Test Pit #:_____Ground Surface Slope _____% Time_____

DEPTH (Inches)	TEXTURE	CONSISTENCE	COLOR	MOTTLES or REDOX. FEATURES	STRUCTURE	COMMENTS

APPENDIX B - EXECUTED MOU

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE UNITED STATES DEPARTMENT OF VETERANS AFFAIRS, FINGER LAKES HEALTHCARE SYSTEM, CANANDAIGUA CAMPUS
AND
THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

This Memorandum of Understanding (MOU), made this 5th day of Jan, 2023 by and between the United States Department of Veterans Affairs (VA) and the New York State Department of Environmental Conservation (NYSDEC), a New York State agency having its principal place of business being located at 625 Broadway, Albany, NY, together referred to as the Parties.

WHEREAS:

A. NYSDEC is responsible for inactive hazardous waste disposal site remedial programs pursuant to Article 27, Title 13 of the Environmental Conservation Law (ECL) and Part 375 of Title 6 of the Official Compilation of Codes, Rules and Regulations (6 NYCRR).

B. NYSDEC is responsible for carrying out the policy of the State of New York to conserve, improve and protect its natural resources and environment and control water, land and air pollution consistent with the authority granted to the NYSDEC and the Commissioner by Article 1, Title 3 of the ECL.

C. VA is an agency of the Federal government. Its Canandaigua VA Medical Center has a physical address as identified on Ontario County, New York, Tax Map Number 71.00-1-4.100, of 2500 East St., Canandaigua, NY 14424 and a mailing address of 400 Fort Hill Ave., Canandaigua, NY 14424.

D. The Site, as identified below in Paragraph I is not currently listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State, and is instead identified as a “P” or potential site with a Site Number of 835031.

E. VA enters into this MOU subject to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Section 120, 42 U.S.C Section 9620 and Executive Order 12580.

F. VA and NYSDEC agree that the primary goals of this MOU are to appropriately characterize the contamination at the Site and identify and implement any necessary interim remedial measures and associated site management. More specifically, VA acknowledges that a portion of the samples collected will be analyzed for the full Target Analyte List and Target Compound List.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein set forth, the Parties agree as follows:

I. Real Property

The Site subject to this MOU has been assigned number 835031, consists of approximately 2.08 acres, and is as follows:

Subject Property Description (A Map of the Site is attached as Exhibit "A")

Tax Map/Parcel No.:	71.00-1-4.100 (portion of)
Address:	Canandaigua VA Medical Center 2500 East St. (physical) 400 Fort Hill Ave. (mailing) Canandaigua, NY 14424
Owner:	United States

II. NYSDEC Participation

1. VA will afford the NYSDEC the opportunity to participate in the development of studies, reports, and action plans, including but not limited to, the scope of work to appropriately characterize the contamination at the Site, any action plans to implement interim remedial measures, and any final reports documenting remedial work performed at the Site. NYSDEC will review any studies, reports and/or action plans and will provide VA with comments and recommendations. NYSDEC agrees to make its best efforts to provide its comments and recommendations on studies, action plans and reports according to the project schedules provided by VA. If NYSDEC modifies or requests modifications to a study, report or action plan, it shall specify the reasons for such modification(s). Within fifteen (15) days after the date of NYSDEC's written notice of the modification(s), VA shall notify NYSDEC of its election whether to modify or accept NYSDEC's modification(s).

2. If after completion of any investigations and/or interim remedial measures completed pursuant to Paragraph II (1), NYSDEC determines that the Site will not be listed on the Registry, the NYSDEC will issue a letter to VA reflecting NYSDEC's determination that, other than the implementation of a Site Management Plan, if required, no further remedial action is presently necessary.

3. VA agrees to allow NYSDEC to attend and, to the extent possible, to notify NYSDEC at least fourteen (14) days in advance of any field activities. If VA is unable to notify NYSDEC at least fourteen (14) in advance, VA will notify NYSDEC as soon as possible. NYSDEC may elect to obtain split samples, duplicate samples, or both, of all substances and materials sampled. NYSDEC agrees to make the results of any such sampling available to VA.

III. Payment of State Costs

1. Pursuant to 6 NYCRR 375-1.5(b)(3) and State Finance Law 97-b(6), VA will reimburse the State for future costs related to:

a. Technical review, comments, and recommendations on all documents or data submitted by VA related to this MOU;

b. Identification and explanation of State applicable or relevant and appropriate requirements related to response actions;

c. Participation, in cooperation with VA, in the conduct of public education and public participation activities in accordance with CERCLA; and

d. Preparation of estimated State costs and invoicing.

2. VA will not reimburse the State for non-essential travel to, attendance at and observation of field activities by the State or any agent, consultant, contractor, or other person so authorized by the State, or for any costs related to split samples, duplicate samples, or any other sampling completed by the State or any agent, consultant, contractor, or other person so authorized by the State.

3. Invoices shall be sent to VA at the following address:

Eric Smith
Department of Veteran Affairs
Facility Manager
400 Fort Hill Ave
Canandaigua, NY 14424
Eric.Smith9@va.gov

4. Invoicing and Payment

a. Within forty-five (45) days after receipt of an itemized invoice from the NYSDEC, VA shall pay to NYSDEC a sum of money which shall represent reimbursement for State Costs as provided by 6 NYCRR 375-1.5(b)(3)(i).

b. Costs shall be documented as provided by 6 NYCRR 375 1.5(b)(3). NYSDEC shall not be required to provide any other documentation of costs, provided however, that the NYSDEC's records shall be available consistent with, and in accordance with, Article 6 of the Public Officers Law.

c. Each payment shall be made payable to the "Commissioner of NYSDEC" and shall be sent to:

Director, Bureau of Program Management

Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7012

In the alternative, VA may make payments by electronic fund transfer. NYSDEC's instructions for electronic fund transfers are attached as Exhibit "B".

d. The NYSDEC shall provide written notification to VA of any change in the foregoing addresses.

e. If VA objects to any invoiced costs under this MOU, the provisions of 6 NYCRR 375-1.5(b)(3)(v) and (vi) shall apply. Objections shall be sent to NYSDEC as provided in paragraph III (3)(c) above.

5. Past Costs:

a. In addition to the requirement to pay costs as set forth above, within forty-five (45) Days after the effective date of this MOU, VA shall pay to the NYSDEC the sum set forth on Exhibit "C", which shall represent reimbursement for past State Costs incurred prior to the execution of this MOU. VA acknowledges that all past State Costs are not itemized on the cost summary and that additional charges may be billed at a later date for State Costs incurred prior to the effective date of this MOU.

6. For purposes of budgeting, the NYSDEC will annually provide VA before the beginning of the fiscal year, a written estimate of the NYSDEC's projected costs to be incurred.

7. The Anti-Deficiency Act, 31 U.S.C. § 1341 et seq., prohibits federal agencies from incurring an obligation of funds in advance of or in excess of available appropriations. Accordingly, any requirement for the obligation of funds arising from the terms of this MOU are subject to the availability of appropriated funds, and no provision of this MOU shall be interpreted to require the obligation or provision of funds in violation of the Anti-Deficiency Act.

IV. Site Access

Upon reasonable notice under the circumstances presented, VA will provide for NYSDEC's entry upon the Site (or areas in the vicinity of the Site which may be under the control of VA) by any duly designated officer or employee of NYSDEC and by any agent, consultant, contractor or other person so authorized by NYSDEC, all of whom shall abide by the health, safety, privacy, and security rules in effect for the Site, for inspecting, sampling, copying records related to the contamination at the Site, testing, and any other activities necessary to ensure compliance with this MOU. Upon request, VA agrees to

permit NYSDEC full access to all non-privileged records related to the matters addressed by this MOU. Raw data that does not implicate personal privacy interests is not considered privileged and that portion of any privileged document containing raw data that does not implicate personal privacy interests, must be provided to NYSDEC. In the instance that the VA asserts that raw data is privileged, the parties shall negotiate a confidentiality agreement in good faith.

V. Reservation of Rights

1. Nothing contained in this MOU shall be construed as barring, diminishing, adjudicating or in any way affecting any of NYSDEC's rights or authorities, including, but not limited to, the right to require performance of further investigations and or response actions(s), to recover natural resource damages, and/or to exercise any summary abatement powers with respect to any person.

2. Nothing contained in this MOU shall be construed as barring, diminishing, adjudicating or in any way affecting any of VA's rights and authorities under CERCLA, the NCP, and EO 12580, including, but not limited to, the right to remove or arrange for the removal of, and provide for remedial action relating to a release or threat of release of any hazardous substance, the right to undertake such investigations, monitoring, surveys, testing and other information gathering as deemed necessary and appropriate, and the right to select remedial actions.

VI. Communications

A. All written communications required by this MOU shall be transmitted by United States Postal Service, by private courier service, by hand delivery, or by electronic mail.

1. Communication from VA shall be sent to:

Tasha Mumbrue, DEC Project Manager (1 hard copy (unbound for work plans) & 1 electronic copy)
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Rd. Avon, NY 14414
tasha.mumbrue@dec.ny.gov

Christine Vooris (electronic copy only)
New York State Department of Health
Bureau of Environmental Exposure Investigation
Empire State Plaza
Corning Tower Room 1787
Albany, N.Y. 12237
christine.vooris@health.ny.gov

Dudley Loew, Esq., DEC Project Attorney (correspondence only)
NYSDEC, Region 8
Office of General Counsel
6274 East Avon-Lima Rd.
Avon, NY 14414
dudley.loew@dec.ny.gov

2. Communication from the NYSDEC to VA shall be sent to:

Gerard McMindes
Department of Veteran Affairs
GEMS Coordinator
400 Fort Hill Ave
Canandaigua, NY 14424
Gerard.Mcmindes@va.gov

B. NYSDEC and VA reserve the right to designate additional or different addressees for communication on written notice to the other. Additionally, NYSDEC reserves the right to request that VA provide more than one paper copy of any work plan or report.

C. Each party shall notify the other within ninety (90) days after any change in the addresses listed in this paragraph or in Paragraph I.

VII. This MOU cannot be amended, modified or otherwise changed, except as approved in writing by both Parties.

VIII. This MOU constitutes the entire understanding between the Parties and supersedes all prior and contemporaneous proposals, agreements, and understandings, oral or written, relating to this subject matter of this MOU.

IN WITNESS WHEREOF, the parties hereto have executed this MOU as of the dates set forth below.

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS

BY: _____ 12.7.22
Name: Shawn De Fries, MS, MBA, RHIA, FACHE Date
Title: Acting Medical Center Director

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

BY: Andrew Guglielmi _____ 1/5/2023
Name: Andrew Guglielmi Date
Title: Director, Division of
Environmental Remediation

Exhibit “A”

Exhibit A: Canandaigua VA
Medical Center Site 835013

1:9,028

0 0.07 0.15 0.3 mi

0 0.1 0.2 0.4 km

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

Author: NYS DEC
Not a legal document

Exhibit “B”

OMB No. 1510-0056

ACH VENDOR/MISCELLANEOUS PAYMENT ENROLLMENT FORM

This form is used for Automated Clearing House (ACH) payments with an addendum record that contains payment-related information processed through the Vendor Express Program. Recipients of these payments should bring this information to the attention of their financial institution when presenting this form for completion. See reverse for additional instructions.

PRIVACY ACT STATEMENT

The following information is provided to comply with the Privacy Act of 1974 (P.L. 93-579). All information collected on this form is required under the provisions of 31 U.S.C. 3322 and 31 CFR 210. This information will be used by the Treasury Department to transmit payment data, by electronic means to vendor's financial institution. Failure to provide the requested information may delay or prevent the receipt of payments through the Automated Clearing House Payment System.

AGENCY INFORMATION

FEDERAL PROGRAM AGENCY		
AGENCY IDENTIFIER:	AGENCY LOCATION CODE (ALC):	ACH FORMAT: ☐ CCD+ ☐ CTX
ADDRESS:		
CONTACT PERSON NAME:		TELEPHONE NUMBER: ( )
ADDITIONAL INFORMATION:		

PAYEE/COMPANY INFORMATION

NAME NYS DEPT OF ENVIRONMENTAL CONSERVATION	SSN NO. OR TAXPAYER ID NO. 14-6013200
ADDRESS 625 BROADWAY, 10TH FLOOR	
ALBANY, NY 12233	
CONTACT PERSON NAME: ROBERT SCHWANK	TELEPHONE NUMBER: (518) 402-9373

FINANCIAL INSTITUTION INFORMATION

NAME: BANK OF AMERICA	
ADDRESS: PO BOX 15284	
WILMINGTON, DE 19850	
ACH COORDINATOR NAME: VIOLET BRISSETT	TELEPHONE NUMBER: (866) 222-1948 EXT 2722
NINE-DIGIT ROUTING TRANSIT NUMBER: 0 2 1 0 0 0 3 2 2	
DEPOSITOR ACCOUNT TITLE: NYS DEPT OF ENVIRONMENTAL CONSERVATION REVENUE ACCOUNT	
DEPOSITOR ACCOUNT NUMBER: 483043680813	LOCKBOX NUMBER:
TYPE OF ACCOUNT: ☒ CHECKING ☐ SAVINGS ☐ LOCKBOX	
SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL: (Could be the same as ACH Coordinator) Principal Accountant	TELEPHONE NUMBER: (518) 402-9373

AUTHORIZED FOR LOCAL REPRODUCTION

SF 3881 (Rev. 2/2003)
Prescribed by Department of Treasury
31 U S C 3322; 31 CFR 210

Instructions for Completing SF 3881 Form

Make three copies of form after completing. Copy 1 is the Agency Copy; copy 2 is the Payee/Company Copy; and copy 3 is the Financial Institution Copy.

1. Agency Information Section - Federal agency prints or types the name and address of the Federal program agency originating the vendor/miscellaneous payment, agency identifier, agency location code, contact person name and telephone number of the agency. Also, the appropriate box for ACH format is checked.

2. Payee/Company Information Section - Payee prints or types the name of the payee/company and address that will receive ACH vendor/miscellaneous payments, social security or taxpayer ID number, and contact person name and telephone number of the payee/company. Payee also verifies depositor account number, account title, and type of account entered by your financial institution in the Financial Institution Information Section.

3. Financial Institution Information Section - Financial institution prints or types the name and address of the payee/company's financial institution who will receive the ACH payment, ACH coordinator name and telephone number, nine-digit routing transit number, depositor (payee/company) account title and account number. Also, the box for type of account is checked, and the signature, title, and telephone number of the appropriate financial institution official are included.

Burden Estimate Statement

The estimated average burden associated with this collection of information is 15 minutes per respondent or recordkeeper, depending on individual circumstances. Comments concerning the accuracy of this burden estimate and suggestions for reducing this burden should be directed to the Financial Management Service, Facilities Management Division, Property and Supply Branch, Room B-101, 3700 East West Highway, Hyattsville, MD 20782 and the Office of Management and Budget, Paperwork Reduction Project (1510-0056), Washington, DC 20503.

Exhibit “C”

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Bureau of Program Management
625 Broadway, 12th Floor, Albany, NY 12233-7012
P: (518) 402-9764 I F: (518) 402-9722
www.dec.ny.gov

Transmitted via E-Mail
M E M O R A N D U M

TO: Dudley Loew, Office of General Counsel, Region 8

FROM: Karen Diligent, Director, Bureau of Program Management, DER KBD

SUBJECT: Cost Summary – Canandaigua Veterans Medical Center – Site #835031

DATE: August 5, 2022

This cost recovery summary has been prepared in response to your July 11, 2022 request. The following summarizes costs incurred by the New York State Department of Environmental Conservation (DEC) through May 22, 2022. There may be additional future costs associated with this site that are not included in this summary. Please contact the project manager to determine if additional future costs are anticipated.

The unreimbursed costs incurred by DEC in association with the Canandaigua Veterans Medical Center Site are $2,701.65. This amount includes emergency response costs incurred at the site by a hazardous material spill, if any. Please note that if the site involves a petroleum spill, any costs incurred by the Oil Spill Fund would be recovered separately by the Office of the State Comptroller and are not included in this summary.

DEC costs for this site have been included through May 22, 2022 (the latest available data). Department of Health costs are not readily available. Please note that there are no open contracts for this site for which we have outstanding obligations.

Please contact Nicole Morgan at (518) 402-9753 if you have any questions on this summary.

ec: T. Mumbrue
D. Pratt
N. Morgan

EXHIBIT I

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
BUREAU OF PROGRAM MANAGEMENT

COST SUMMARY

SITE NAME: Canandaigua Veterans Medical Center
SITE NO.: 835031
TIME FRAME: Life to 5/11/2022

COST CATEGORY	AMOUNTS	EXHIBIT NO.
DIRECT PERSONAL SERVICES	$1,281.51	
FRINGE	$804.67	
INDIRECT	$615.47	
PERSONAL SERVICES SUBTOTAL	*$2,701.65*	II
CONTRACTUAL	$0.00	
TRAVEL	$0.00	
OTHER NPS	$0.00	
NON-PERSONAL SERVICES SUBTOTAL	*$0.00*	
DEC TOTAL	$2,701.65	
DOH TOTAL	N/A	
MINUS PREVIOUSLY REIMBURSED AMOUNT (IF APPLICABLE)	N/A	
DEC & DOH TOTAL	*$2,701.65*	

EXHIBIT II

Cost Query - Ad Hoc

Criteria: Timecard Begin Date 07/08/2021 And Timecard End Date 05/11/2022 And Task Code 75842
Leave Charges: Included
Cost Indicator: Direct
Rate Type: Non-Federal
Download Excel Report
Print

Jump To Employee: All

Pay Period	Pay Period Dates	Check Date	Cost Center	Variable	Budget Year	Employee	Title Description	Work Location Code	Work Location Description	Billable Hourly Rate	State Fringe	State Indirect	Hours	Cost
Task: 75842 - 835031 - P-SITE - Canandaigua Veterans Medical Center														
2021/8	07/08/2021 - 07/21/2021	08/04/2021	430386	L6	2021	Mumbrue, Tasha	GEOLOGIST TRAINEE	24164	R8 - Avon - Regional HQ	37.82	106.71	81.38	4.50	170.19
2021/9	07/22/2021 - 08/04/2021	08/18/2021	430386	L6	2021	Mumbrue, Tasha	Assistant Geologist	24164	R8 - Avon - Regional HQ	41.91	131.39	100.20	5.00	209.55
2021/10	08/05/2021 - 08/18/2021	09/01/2021	430386	L6	2021	Mumbrue, Tasha	Assistant Geologist	24164	R8 - Avon - Regional HQ	41.91	52.56	40.08	2.00	83.82
2021/11	08/19/2021 - 09/01/2021	09/15/2021	430386	L6	2021	Mumbrue, Tasha	Assistant Geologist	24164	R8 - Avon - Regional HQ	41.91	26.28	20.04	1.00	41.91
2021/14	09/30/2021 - 10/13/2021	10/27/2021	430386	L6	2021	Mumbrue, Tasha	Assistant Geologist	24164	R8 - Avon - Regional HQ	41.91	131.39	100.20	5.00	209.55
2021/22	01/20/2022 - 02/02/2022	02/16/2022	430386	L6	2021	Mumbrue, Tasha	Assistant Geologist	24164	R8 - Avon - Regional HQ	44.48	83.67	63.81	3.00	133.44
2021/24	02/17/2022 - 03/02/2022	03/16/2022	430386	L6	2021	Mumbrue, Tasha	Assistant Geologist	24164	R8 - Avon - Regional HQ	43.89	27.52	20.99	1.00	43.89
2022/1	03/31/2022 - 04/13/2022	04/27/2022	430386	L6	2022	Mumbrue, Tasha	Assistant Geologist	24164	R8 - Avon - Regional HQ	46.09	58.95	46.76	2.00	92.18
2021/10	08/05/2021 - 08/18/2021	09/01/2021	685135	L5	2021	Sowers, Franklin	PROFESSIONAL ENGINEER 1 (ENVIRONMENTAL)	24164	R8 - Avon - Regional HQ	65.11	40.82	31.13	1.00	65.11
2021/14	09/30/2021 - 10/13/2021	10/27/2021	685135	L5	2021	Sowers, Franklin	PROFESSIONAL ENGINEER 1 (ENVIRONMENTAL)	24164	R8 - Avon - Regional HQ	65.11	102.06	77.84	2.50	162.78
2021/17	11/11/2021 - 11/24/2021	12/08/2021	685135	L5	2021	Sowers, Franklin	PROFESSIONAL ENGINEER 1 (ENVIRONMENTAL)	24164	R8 - Avon - Regional HQ	69.09	43.32	33.04	1.00	69.09
									Task 75842 Sub Total:		804.67	615.47	28.00	1,281.51
										Report Total:	804.67	615.47	28.00	1,281.51

Close

State Direct	$1,281.51
State Fringe	$ 804.67
State Indirect	$ 615.47
Report Total	$2,701.65

APPENDIX C – FIELD FORMS

Pre-Work Tailgate Safety Meeting Form

This form is intended for projects of up to 7 consecutive days on one site. If work will last longer than the days provided on this form, please start a new RMS2 to refresh hazard awareness.

Project Number: _____ **Date:** _____

Project Name: _____

Project Location: _____

Description of Work:

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
HASP/RMS1 reviewed with staff on site	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐
Review of STOP Work Authority with staff & subs	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐
Emergency plan adequate and communicated	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐
Tools and appropriate PPE inspected before use	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐
Last Minute Risk Assessment process reviewed	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐

If the answer to any of the questions above is not "Yes" Stop work and contact your supervisor.

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Field crews have certifications on site	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐
Utility locates on site and understood	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐
Working alone plan in place	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐
Work permits completed	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐
Client site safety meeting conducted/attended	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐
Are there additional critical risks, JSA tasks or energy hazards? If yes, update the JSA and communicate to the team		Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐

STOP AND THINK ABOUT YOUR TASKS BEFORE PERFORMING THEM. IF YOU ARE NOT COMFORTABLE, STOP WORK AND FIND A SAFER WAY.

Pre-Work Tailgate Safety Meeting Form

JOB SAFETY ANALYSIS (JSA)				
	Basic Job Steps	Describe Energy Hazard	Controls	Person Responsible
1	Site Work	Motion	Slip/Trip/Fall: -LMRA -Plan Route -Be/Stay Aware of Surroundings	All
2	Site Work	Motion	Contact - Vehicles/Equipment: -High-Vis. Clothing -Eye Contact with Operator -Avoid Blind Spots	
3	Site Work	Biological	Flora/Fauna: -Preventative Sprays and/or Clothing -Daily Tick Checks After Completion of Work Tasks	
4	Site Work	Chemical	Hazardous Soils: -Limit Exposure -Proper PPE	
5	Site Work	Thermal	Heat/Cold Stress: -Have Warming/Cooling Environments Available (Trucks/Job Trailer) -Proper PPE -Fluid Intake (cool/warm) -Be Aware of Signs of Stress	
6	Site Work	Gravity	Rigging: -Stay Well Clear of Overhead/ Rigged Equipment Including Fall Zone -Understand Lifting Plan	
7				
8				

Pre-Work Tailgate Safety Meeting Form

CRITICAL RISKS						
 Driving	 Working at Heights	 Traffic Control	 Wildlife, Insects and Vegetation	 Mobile and Heavy Equipment	 Environments with water or ice
☑ Yes	☐ Yes	☐ Yes	☑ Yes	☑ Yes	☐ Yes
 Ground Disturbance	 Ergonomic Hazards and Manual Handling	 Hazardous Materials and Environments	 Control of Hazardous Energy	 Hot Work	 Confined Spaces
☑ Yes	☑ Yes	☑ Yes	☐ Yes	☐ Yes	☐ Yes

ENERGY HAZARD			
	**Thermal:** Open flame, electric ignition sources (including phones and friction), hot or cold surfaces, liquids or gasses, weather conditions including humidity levels and snow/ice		**Gravity**: Falling objects, collapsing objects, slipping, tripping or falling
	**Chemical:** Flammable vapors, reactive hazards, carcinogens or other toxic compounds, corrosives, pyrophorics, combustibles, oxygen deficient atmospheres, fumes, dusts, naturally occurring gases		**Motion**: Vehicles (car, truck, ATV, ARGO, boat, snowmobile, bicycles, transit, mobile equipment, trailer), workers and other people (lifting, pushing, pulling, carrying, use of hand and power tools, body position, walking), flowing water, sprung branches
	**Biological**: Animals, bacteria, viruses, insects, blood borne pathogens (needles), poisonous and noxious plants, contaminated water, human behaviors (protesters, concerned citizens, onlookers)		**Mechanical**: Rotating equipment (augers, pulleys, drive shafts), compressed springs, drive belts, conveyors and motors
	**Radiation**: Welding, NORMs (Naturally Occurring Radioactive Material), X rays, Nuclear Densometers, Lasers, Microwaves, Solar, Radioactive waste and sources		**Electrical**: Power and communication lines (overhead and buried), static charge, lightning, energized equipment, wiring, batteries, GFCI cords/plugs, lighting levels, double insulated tools, wet environment
	**Noise**: Stationary or mobile equipment, impact noise, high pressure release, impact of noise on communication		**Pressure**: pressure piping, compressed cylinders (fire extinguisher, calibration gas, propane), control lines, vessels, tanks, hoses, pneumatic and hydraulic equipment

Meeting details	
Day 1	
Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:

Pre-Work Tailgate Safety Meeting Form

Day 2	
Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:
Day 3	
Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:
Day 4	
Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:

Pre-Work Tailgate Safety Meeting Form

Day 5

Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:

Day 6

Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:

Day 7

Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:

Pre-Work Tailgate Safety Meeting Form

Review/Sign-off

Print the company that you work for, your name and indicate which fitness level you are under the corresponding time column:
Fit for Duty = F Alternate Plan = AP

		Date:			Date:			Date:			Date:		
Company name	**Print your name**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**
T&R	Kyle Stone	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
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		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:

Pre-Work Tailgate Safety Meeting Form

Review / Sign-off Print the company that you work for, your name and indicate which fitness level you are under the corresponding time column: Fit for Duty = F Alternate Plan = AP										
		Date:			**Date:**			**Date:**		
Company name	**Print your name**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**
T&R	Kyle Stone	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:
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		F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:

7575 Hannan Pwky.
Victor, NY 14564
(800) 659-0556

Test Boring No.: _____
Page: _____

Project:		Drill Contractor:	T&R	Start Date:	
Project #:		Driller:		Completion Date:	
Client:		Elevation:		Drilling Method:	
Location:		Weather:		Supervisor:	

0	SAMPLE				Depth of Strata Change (ft)	Material Description and Remarks
	PID (ppm)	No.	Rec. (ft)	Depth (ft)		
5						
10						
15						
20						

Notes:

1. PID Model MiniRAE 3000 with 10.6eV lamp.

OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT NAME _____ WELL DESIGNATION _____

PROJECT NUMBER _____ DATE COMPLETED _____

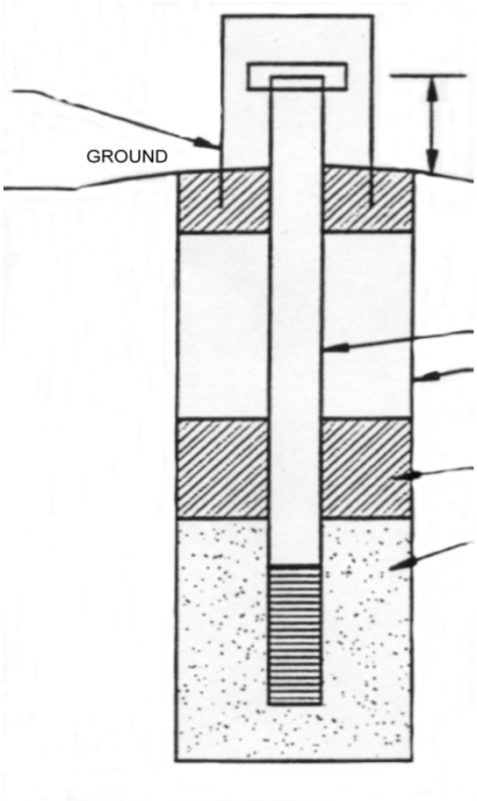
CLIENT _____ DRILLING METHOD _____

LOCATION _____ SUPERVISOR _____

_____

CAP TYPE _____

PROTECTIVE CASING



STICK-UP _____ ft

SURFACE SEAL TYPE _____

TOP OF SEAL* AT _____ ft

BOTTOM OF SEAL* AT _____ ft

TOP OF SCREEN* AT _____ ft

BOTTOM OF SCREEN* AT _____ ft

BOTTOM OF HOLE* AT _____ ft

water added (gal): _____

WELL CASING ANNULUS BACKFILL TYPE: _____

SEAL TYPE: _____

PACK TYPE: _____

- SAND, SIZE

* NOTE:
ALL DIMENSIONS ARE
BELOW GROUND SURFACE (BGS)

SCREEN TYPE: CONTINUOUS SLOT _____ PERFORATED _____ LOUVRE _____ OTHER _____

SCREEN MATERIAL: STAINLESS STEEL _____ PVC _____ OTHER _____

SCREEN LENGTH: _____ ft SCREEN DIAMETER: _____ in SCREEN SLOT SIZE: 10

WELL RISER MATERIAL: PVC WELL RISER DIAMETER: _____ in

HOLE DIAMETER: _____ in

AUGER DIAMATER _____ in (inner diameter)

_____ in (outer diameter)

7575 Hannan Pwky.
Victor, NY 14564
(800) 659-0556

1" Well - 1" = 0.041 GAL
2" Well - 1" = 0.163 GAL

Monitoring Well Purging and Sampling Record - Volumetric

Date: _____

Project Name: _____ Well Diameter: _____ in

Project Number: _____ Conversion Factor: _____

Client: _____ Evacuation Method: _____

Sampler(s): _____ Weather: _____

Well ID: _____ Equipment: _____

Address: _____ _____

Constructed Well Depth: _____ Screened to: _____ ft

Gauging Data

Time: _____ Water Column: _____ ft

Depth to Water: _____ ft BTOC Well Volume: _____ gallons

Depth to Bottom: _____ ft BTOC 3 x well volume: _____ gallons

Stick Up: _____

Sampling Data

Purge Start Time: _____ Sample Color: _____

Purge End Time: _____ Sample Odor: _____

Volume Purged: _____ Sample Appearance: _____

Filtered (Y/N): _____ Turbidity: _____

Comments: _____

_____

_____

Sample ID (s): _____ Sample date/time: _____

Analyses	# of containers	Preservative
☐ VOCs		
☐ SVOCs		
☐ PCBs		
☐ Pesticides		
☐ Metals		
☐ Cyanide		
☐ Hex Chrom		

CAMP Field Notes

Name: Kyle Stone

Date:

Project:

Weather conditions:

Estimated wind speed (calm, moderate, strong):

Equipment		
	Upwind/Work	Downwind
PID (10.6 eV)		
Dusttrak		
Telemetery		

Work Location	Wind Direction*	TIME	UPGRADIENT		DOWNGRADIENT		WORK AREA	Notes (discuss any exceedances noted, any visible dust, other conditions of note, etc.)
			DUST (mg/m3)	VOC (ppm)	DUST (mg/m3)	VOC (ppm)	VOC (ppm)	

*Wind direction is reported as the direction from which it originates

APPENDIX D – COMMUNITY AIR MONITORING PLAN

Appendix J
New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. “Periodic” monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. 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 must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

Appendix 1B
Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.

3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM10) with the following minimum performance standards:

(a) Objects to be measured: Dust, mists or aerosols;
(b) Measurement Ranges: 0.001 to 400 mg/m3 (1 to 400,000 :ug/m3);
(c) Precision (2-sigma) at constant temperature: +/- 10 :g/m3 for one second averaging; and +/- 1.5 g/m3 for sixty second averaging;
(d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);
(e) Resolution: 0.1% of reading or 1g/m3, whichever is larger;
(f) Particle Size Range of Maximum Response: 0.1-10;
(g) Total Number of Data Points in Memory: 10,000;
(h) Logged Data: Each data point with average concentration, time/date and data point number
(i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;
(j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;
(k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;
(l) Operating Temperature: -10 to 50^{o} C (14 to 122^{o} F);
(m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.

4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.

5. The action level will be established at 150 ug/m3 (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m3, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m3 continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM10 at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential--such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

(a) Applying water on haul roads;
(b) Wetting equipment and excavation faces;
(c) Spraying water on buckets during excavation and dumping;
(d) Hauling materials in properly tarped or watertight containers;
(e) Restricting vehicle speeds to 10 mph;
(f) Covering excavated areas and material after excavation activity ceases; and
(g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m3 action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

APPENDIX E – HEALTH AND SAFETY PLAN

T&R Environmental –

Health and Safety Plan

Prepared for:

United States Department of Veterans Affairs
Finger Lakes Health Care System

Prepared by:

T&R Environmental
691 Addison Rd
Painted Post, NY 14870

Date: July 11, 2023

Emergency Information

Ambulance: 911	
Hospital: FF Thompson Hospital 350 Parrish St. Canandaigua, NY 14424	
Fire Department: **911**	Poison Control Center: **800-222-1222**
Police: **911**	Utility Emergency: **911**

Project Contacts

Name	Firm	Email	Office Phone	Cell Phone
Ryan Bergman	VMAC	Ryan.Bergman@va.gov	**585-393-8546**	**585-430-9589**
Brian Polmanteer	T&R Environmental	polmanteerb@trenviro.com	--	**607-368-1314**
Kyle Sutton		suttonk@trenviro.com.com	--	**607-725-2855**
Lauren Case		caselh@trenviro.com	--	**607-368-1970**
Kyle Stone		stonek@trenviro.com	--	**585-284-6433**
Joshua Ramsey	NYSDEC	Joshua.Ramsey@dec.ny.gov	--	--

Revision History

Revision Number	Date	Modifications
Original	July 2023	N/A

Health and Safety Plan Acknowledgement

The undersigned acknowledge they have read and understand this Health and Safety Plan and agree to abide by the requirements included in this document.

Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date

Sign Off Sheet

The contents of this report titled *T&R Environmental – Health and Safety Plan* dated *July 2023* are for the sole use of the intended recipient. Finger Lakes EnviroTech LLC. dba T&R Environmental (hereinafter referred to as 'T&R Environmental' or 'T&R') has not verified the accuracy of the information provided to them by any third party and makes no guarantee to its correctness. T&R strictly prohibits any reliance on this document and the recipient agrees to hold T&R harmless of any damages incurred as a result of such reliance on this report.

The undersigned, to the best of their knowledge utilizing the information available at the time of writing, acknowledges that this report has been prepared in accordance with applicable regulations and contains no intentionally misleading or fraudulent information.

Prepared by: _____

Kyle Stone, PE

Reviewed by: _____

Brian Polmanteer

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1.0 INTRODUCTION

The following Health and Safety Plan (HASP) describes personal safety protection standards and procedures to be followed by T&R Environmental staff during planned Site work located at Canandaigua VA Medical Center located at 400 Fort Hill Ave., Canandaigua, NY 14424 (hereinafter referred to as the "VA" or "Site") (Figure 1).

This HASP establishes mandatory safety procedures and personal protection standards pursuant to the Occupational Safety and Health Administration (OSHA) regulations 29 Code of Federal Regulations (CFR) 1910.120. The HASP applies to all T&R Environmental personnel conducting any Site work, as defined in 29 CFR 1910.120(a). All personnel involved in the mentioned activities must familiarize themselves with this HASP, comply with its requirements and have completed the required health and safety training and medical surveillance program participation pursuant to 29 CFR 1910.120 prior to beginning any work onsite.

THIS HASP IS FOR THE EXPRESS USE OF T&R ENVIRONMENTAL EMPLOYEES. ALL OTHER CONTRACTORS TO BE WORKING IN THE EXCLUSION AREAS ARE REQUIRED BY LAW TO DEVELOP THEIR OWN HASP, AS WELL TO MEET ALL PERTINENT ASPECTS OF OSHA REGULATIONS. T&R ENVIRONMENTAL RESERVES THE RIGHT TO STOP ANY SITE WORK WHICH IS DEEMED TO POSE A HEALTH AND SAFETY THREAT TO ITS STAFF.

1.1 BACKGROUND

The Site consists of an approximately 2.1 acre portion of a larger parcel owned by VMAC (The United States). The Site consists of multiple buildings (chiller plant, building maintenance building), parking area, an engineered stormwater retention pond, and mown grass areas. Two identified wetland areas were identified via NYSDECs wetland mapper tool within one half mile of the Site boundary. Two individual wetlands are located approximately 0.2 miles to the northeast of the Site and are identified as Freshwater Forested/Shrub Wetlands on the National Wetlands Inventory. Additionally, multiple combined wetlands are located approximately 0.3 miles to the west of the Site and are categorized as Freshwater Forested/Shrub Wetlands and Freshwater Emergent Wetland on the National Wetlands Inventory and Freshwater Wetland on the State Regulated Freshwater Wetlands Inventory. No ecological areas were identified within the 0.5 mile radius of the Site.

The overall objective of this SCWP is to build on and fill data gaps existing from the previous, limited investigation of the Site performed by T&R which is summarized in the *Site Characterization Summary Report* dated July 1, 2020, to create a more complete environmental characterization of the Site. The goal of the previous limited investigation was to determine whether HFM-related impacts such as volatile tar, incinerator ash, molten cinders and associated chemical elements pose a risk to human health or the environment,

and to the extent of which HFM is present at the Site. Additionally, the scope of work as presented within this report is to perform additional characterization at the Site to comply with the Memorandum of Understanding (MOU) entered in between the New York State Department of Environmental Conservation (NYSDEC) and the VA dated January 5, 2023.

The SCWP scope of work at the Site will include:

- Location and marking of subsurface utilities or structures using both conductive and non-conductive methodologies;
- HFM and non-HFM sample collection/observations at approximately thirteen (13) pre-determined temporary direct push (i.e. Geoprobe®) locations;
- Installation of up to four (4), one-inch temporary groundwater monitoring wells within soil borings exhibiting the highest visual concentration of HFM or volatile organic compounds (VOCs);
- Collection of groundwater samples to be submitted to an New York State Department of Health (NYSDOH) environmental laboratory accreditation program (ELAP)-certified laboratory for comparison to applicable NYSDEC regulatory criteria;
- Collection of HFM and soil samples will be submitted to an ELAP-certified laboratory for comparison to applicable NYSDEC regulatory criteria;
- Field screening for VOCs utilizing a photoionization detector (PID) during the installation of soil borings;
- Surface restoration during investigation; and
- Generation of a Site Characterization Report identifying the location and extent of HFM, including a determination of the presence of any contaminated non-HFM. Support documentation shall include analytical reports, subsurface boring logs, and applicable photographs.

1.2 SITE-SPECIFIC CHEMICALS OF CONCERN

Volatile Organic Compounds (VOCs)

The primary VOCs of concern documented to be present in the soil and groundwater at the Site are listed in Table 1. Safety Data Sheets (SDSs) for primary site contaminants of concern are presented in HASP Appendix A. The air monitoring action levels will be based on one-half of the current Threshold Limit Valve (TLV) or Permissible Exposure Limit (PEL) for benzene with a margin of safety built into the action levels to account for the non-specificity of the field monitoring instruments. Exposure limits for less hazardous compounds will be satisfied by meeting the more stringent exposure limits for benzene. Table 1 summarizes health and safety data for the volatile compounds of primary concern.

Semi-Volatile Organic Compounds (SVOCs)

Several petroleum-related SVOCs were detected in soil and groundwater. The primary SVOCs of concern are listed in Table 1 and pertinent SDSs for these compounds are presented in HASP Appendix A.

Metals

Several metals have been detected in soil and groundwater samples at the site. The primary metals of concern include arsenic, barium, chromium, copper, lead, and mercury. SDS sheets for the primary metals of concern are included in HASP Appendix A. Table 1 summarizes health and safety data for the metals of primary concern.

SDSs for these compounds are included in Appendix A as applicable.

2.0 T&R ENVIRONMENTAL PERSONNEL ORGANIZATION

The following T&R Environmental personnel will be involved in health and safety operations at the project site:

2.1 PROJECT MANAGER

The Project Manager is responsible for ensuring that all T&R Environmental procedures and methods are carried out, and that all T&R Environmental personnel abide by the provisions of this Health and Safety Plan.

2.2 SITE SAFETY OFFICER/FIELD TEAM LEADER

The Site Safety Officer (SSO) and Field Team Leader (FTL) will report directly to the Project Manager and will be responsible for the implementation of this HASP as well as daily calibration of T&R Environmental's safety monitoring instruments. The FTL/SSO will keep a logbook of all calibration data and instrument readings for the Site.

2.3 HEALTH AND SAFETY COORDINATOR

The Health and Safety Coordinator will be responsible for overall coordination of Health and Safety issues on the project.

2.4 DAILY MEETINGS

All T&R Environmental personnel working within the exclusion zone will be required to read this document and sign off on the daily safety meeting form presented in HASP Appendix B.

3.0 MEDICAL SURVEILLANCE REQUIREMENTS

3.1 INTRODUCTION

Hazardous waste site workers can often experience high levels of physical and chemical stress. Their daily tasks may expose them to toxic chemicals, physical hazards, biologic hazards, or radiation. They may develop heat stress while wearing protective equipment or working under temperature extremes, or face life-threatening emergencies such as explosions and fires. Therefore, a medical program is essential to: assess and monitor worker's health and fitness both prior to employment and during the course of the work; provide emergency and other treatment as needed; and keep accurate records for future reference. In addition, OSHA requires a medical evaluation for employees that may be required to work on hazardous waste sites and/or wear a respirator (29 CFR Part 1910.120 and 1910.134), and certain OSHA standards include specific medical surveillance requirements (e.g., 29 CFR Part 1926.62, Part 1910.95 and Parts 1910.1001 through 1910.1045).

3.2 MEDICAL EXAMINATIONS

A. All T&R Environmental personnel working in areas of the Site where Site-related contaminants may be present shall have been examined by a licensed physician as prescribed in 29 CFR Part 1910.120, and determined to be medically fit to perform their duties for work conditions which require respirators. Employees will be provided with medical examinations as outlined below:

- Pre-job physical examination
- Annually thereafter if contract duration exceeds one year;
- Termination of employment;
- Upon reassignment in accordance with CFR 29 Part 1910.120(e)(3)(i)(C);
- If the employee develops signs or symptoms of illness related to workplace exposures;
- If the physician determines examinations need to be conducted more often than once a year; and
- When an employee develops a lost time injury or illness during the contract period.

B. Examinations will be performed by, or under the supervision of a licensed physician, preferably one knowledgeable in occupational medicine, and will be provided without cost to the employee, without loss of pay and at a reasonable time and place. Medical

surveillance protocols and examination and test results shall be reviewed by the Occupational Physician.

4.0 ONSITE HAZARDS

4.1 CHEMICAL HAZARDS

The primary potential chemical hazards include certain VOCs, SVOCs and metals. Safety Data Sheets for the predominant anticipated chemicals are presented in Appendix A. if available/applicable.

The soil and groundwater contaminants are volatile, therefore, any activity at the Site which causes physical disturbance of the soil can potentially allow the release of contaminants into the air. For volatiles, this can include release of organic vapors into the air. Such an occurrence may be recognized by noticeable chemical odors. Field personnel should be aware of the odor threshold for these chemicals and their relation to the action levels and Permissible Exposure Limits.

Symptoms of overexposure to primary compounds of concern are detailed in Table 1. To prevent exposure to these chemicals, dermal contact will be minimized by using disposable surgical gloves or reusable chemical resistant gloves with work gloves (as appropriate) when handling soil, groundwater equipment or samples. Real time, breathing zone levels of total VOCs will be monitored using a portable photoionization detector (PID). If ambient levels exceed action levels, all Site activities will be performed using Level C PPE until ambient concentrations dissipate. Where levels exceed 50 ppm, work will cease, and the project manager will be notified immediately. Intrusive work may also be halted where required by action levels detailed in the New York State Department of Health Generic Community Air Monitoring Plan (CAMP).

In addition, depending on seasonal conditions, disturbance of the Site soils may cause the particulate contaminants to become airborne as dust. Therefore, particulates will be monitored as discussed in Section 6.1 and dust-suppression methods used where appropriate as discussed in Section 6.2, or in the CAMP.

Finally, aeration of the groundwater may cause volatilization of chemicals into the air, particularly VOCs. Table 2 below summarizes first aid instructions for exposure pathways for the contaminants of concern.

Table 2: Exposure Pathways and First Aid Response for Contaminants of Concern

Substance	Exposure Pathways	First-Aid Instructions
VOCs and SVOCs listed in Table 1	Eye	Irrigate immediately
	Dermal	-Soap wash promptly; or -Soap wash immediately (benzene); or -Soap wash (1,3,5-TMB, 1,2,4-TMB, n-propylbenzene); or -Water wash immediately (MEK)
	Inhalation	-Respiratory support; or Fresh air (MEK, n-propylbenzene)
	Ingestion	Medical attention immediately

4.2 PHYSICAL HAZARDS

Hazards typically encountered at construction sites with drilling and excavation activities will be a concern at this Site. These hazards include slippery and uneven ground surfaces, holes, and operation of heavy machinery and equipment. Field team members will wear the basic safety apparel such as steel-toed shoes, hard hat, high visibility clothing, and safety glasses during all appropriate activities.

Under no circumstances will T&R Environmental personnel approach a borehole during active drilling operation. All field personnel working around the rig will be shown the location and operation of kill switches, which are to be tested daily.

Multi-purpose fire extinguishers, functional and within annual inspection period, will be staged and readily accessible for use.

The use of electrical equipment in any established exclusion zones will be limited to areas verified as containing non-explosive atmospheres (<10% LEL) prior to operation, unless the equipment has been previously demonstrated or designed to be FM or UL rated as intrinsically safe. Care will be taken to avoid an ignition source while working in the presence of vapors.

The driller shall make all necessary contacts with utilities and/or underground utility locater hotlines prior to drilling, and shall meet OSHA requirements for distances between the drilling rig and overhead utilities. No drilling work will be carried out where the drill rig chassis has not been stabilized and the rig is not to be moved between locations with its boom in a vertical position.

4.2.1 Excavation

Excavations for test pits or source area removal present potential hazards related to exposure due to contact with impacted soil or groundwater or the vapors from such materials, working in close proximity to excavation equipment, excavation sidewall caving and the potential for falling into an open excavation.

During excavation, field personnel will generally perform observation from the end of a test pit opposite the excavation equipment and will avoid standing along the long sidewalls of the pit or other excavation. If it is necessary to make observations from a point along the long side of the pit, they will maintain adequate distance between themselves and the test pit walls and be mindful of signs that caving may be likely. These could include raveling of sidewall material into the pit, or the development of cracks in the ground surface.

Personnel will not enter any excavation deeper than 4 ft. unless it is benched or shored in accordance with OSHA regulations. Such shored or benched excavations will have been evaluated a competent person, as defined by OSHA regulations.

As with any soil disturbance, monitoring for VOCs with a photoionization detector (PID) will be performed continuously during excavation activities, including in worker's breathing zone and upwind and downwind locations in accordance with the Community Air Monitoring Program (CAMP). Work will be stopped, and the area vacated if sustained PID readings are observed at concentrations in excess of the Action Levels specified in Section 6.

4.2.2 Noise

The use of heavy machinery/equipment and operation may result in noise exposures, which require hearing protection. Exposure to noise can result in temporary hearing losses, interference with speech communication, interference with complicated tasks or permanent hearing loss due to repeated exposure to noise.

During the investigative activities, all T&R Environmental field team members will use hearing protection when sound levels are in excess of 90 dB TWA.

4.2.3 Heat and Cold Stress Exposure

Heat is a potential threat to the health and safety of Site personnel. The Site Safety Officer under the direction of the Project Manager will determine the schedule of work and rest. These schedules will be employed as necessary so that personnel do not suffer adverse effects from heat. Table 3 summarizes exposure symptoms and first aid instructions for heat stress. Non-caffeinated, thirst replenishment liquids will be available onsite.

Cold stress is also a potential threat to the health and safety of Site personnel. Symptoms of cold stress include, shivering, blanching of the extremities, numbness or burning sensations, blue, purple or gray discoloration of hands and feet, frostbite, hypothermia, and loss of consciousness. Cold stress can be prevented by acclimatizing one's self to the cold, increasing fluid intake, avoiding caffeine and alcohol, maintaining proper salt and electrolyte intake, eating a well-balanced diet, wearing proper clothing,

building heated enclosures to work in, and taking regular breaks to warm up. If any of the above symptoms are encountered the person should be removed from the cold area. Depending on the severity of the cold stress, 911 should be contacted and first aid administered. No fluids should be given to an unconscious person

Table 3: Exposure Symptoms and First Aid for Heat Exposure

Hazard	Exposure Symptoms	First-Aid Instructions
Heat Stress	Fatigue, sweating, irritability	rest; take fluids
	Dizziness, disorientation, perspiration ceases, loss of consciousness	remove from hot area, activate 911, administer first aid, no fluids to be administered to unconscious victim.

4.2.4 Roadway Hazards

Field activities may take place near active roadways. Where such work zones are established, personnel shall assure that protective measures including signage, cones, and shielding through use of vehicles parked at workmen perimeter, are in place. All contractors shall be responsible for meeting signage requirements of DOT. Fluorescent safety vests shall be worn by all personnel during activities in or adjacent to roadways and driveways.

4.2.5 Electrical Work

Site work involving electrical installation or energized equipment must be performed by a qualified electrician. All electrical work will be performed in accordance with the OSHA electrical safety requirements found in 29 CFR 1926.400 through 1926.449. Workers are not permitted to work near electrical power circuits unless the worker is protected against electric shock by de-energizing and grounding the circuit or by guarding or barricading the circuit and providing proper personal protective equipment. All electrical installations must comply with NEC regulations. All electrical wiring and equipment used must be listed by a nationally recognized testing laboratory.

All electrical circuits and equipment must be grounded in accordance with the NEC regulations. The path to ground from circuits, equipment, and enclosures will be permanent and continuous. Ground fault circuit interrupters (GFCIs) are required on all 120-volt, single phase, 15- and 20-amp outlets in work areas that are not part of the

permanent wiring of the building or structure. A GFCI is required when using an extension cord. GFCIs must be tested regularly with a GFCI tester.

Heavy-duty extension cords will be used; flat-type extension cords are not allowed. All extension cords must be the three-wire type and designed for hard/extra hard usage. Electrical wire or cords passing through work areas must be protected from water and damage. Worn, frayed, or damaged cords and cables will not be used. Walkways and workspaces will be kept clear of cords and cables to prevent a tripping hazard. Extension cords and cables may not be secured with staples, hung from nails, or otherwise temporarily secured. Cords or cables passing through holes in covers, outlet boxes, etc., will be protected by bushings or fittings.

All lamps used in temporary lighting will be protected from accidental contact and breakage. Metal shell and paper-lined lamp holders are not permitted. Fixtures, lamp holders, lamps, receptacles, etc. are not permitted to have live parts. Workers must not have wet hands while plugging/unplugging energized equipment. Plugs and receptacles will be kept out of water (unless they are approved for submersion).

4.2.6 Lock-Out/Tag-Out

Before a worker sets up, services, or repairs a system where unexpected energizing (or release of stored energy) could occur and cause injury or electrocution, the circuits energizing the parts must be locked-out and tagged. Only authorized personnel will perform lock-out/tag-out procedures. All workers affected by the lock-out/tag-out will be notified prior to, and upon completion of, the lock-out/tag-out procedure.

Lock-out/tag-out devices must be capable of withstanding the environment to which they are exposed. Locks will be attached in such a way as to prevent other personnel from operating the equipment, circuit, or control, or from removing the lock unless they resort to excessive force. Tags will identify the worker who attached the device, and contain information, which warns against the hazardous condition that will result from the system's unauthorized start-up. Tags must be legible and understood by all affected workers and incidental personnel. The procedures for attaching and removing lock-out/tag-out devices include the steps outlined in the following table.

STEP	LOCK-OUT/TAG-OUT PROCEDURES
1	Disconnect the circuits and/or equipment to be worked on from all electrical energy sources.
2	Ensure that the system is completely isolated so that it cannot be operated at that shut-off point or at any other location.
3	Release stored electrical energy.

4	Block or relieve stored non-electrical energy.
5	Place a lock on each shut-off or disconnect point necessary to isolate all potential energy sources. Place the lock in such a manner that it will maintain the shut-off/disconnect in the off position.
6	Place a tag on each shut-off or disconnect point. The tag must contain a statement prohibiting the unauthorized re-start or re-connect of the energy source and the removal of the tag, and the identity of the individual performing the tag and lock-out.
7	Workers who will be working on the system must place their own lock and tag on each lock-out point.
8	A qualified person must verify the system cannot be re-started or re-connected, and de-energization of the system has been accomplished.
Once the service or repairs have been made on the system:	
1	A qualified person will conduct an inspection of the work area, to verify that all tools, jumpers, shorts, grounds, etc., have been removed so that the system can then be safely re-energized.
2	All workers stand clear of the system.
3	Each lock and tag will be removed by the worker who attached it. If the worker has left the site, then the lock and tag may be removed by a qualified person under the following circumstances:
	a. The qualified person ensures the worker who placed the lock and tag has left the site; and
	b. The qualified person ensures the worker is aware the lock and tag has been removed before the worker resumes work on-site.

If maintenance work is required, the electrical supply to the equipment must be disconnected. Turning off the MAIN breaker using the disconnect switch will disconnect all power to the system. Once the disconnect switch has been turned off, the switch will be locked out using the steps outlined above.

4.2.7 Ladders

One-third of worker deaths in construction result from falls. Many falls occur because ladders are not placed or used safely. Ladder use will comply with OSHA 1926.1053 through 1926.1060, including the following safety requirements.

STEP	PROPER LADDER USE PROCEDURE
1	Choose the right ladder for the task--the proper type and size, with a sufficient rating for the task.
2	-Check the condition of the ladder before climbing. -Do not use a ladder with broken, loose, or cracked rails or rungs. -Do not use a ladder with oil, grease, or dirt on its rungs. -The ladder should have safety feet.
3	Place the ladder on firm footing, with a four-to-one pitch.
4	Support the ladder by: -Tying it off; -Using ladder outrigger stabilizers; or -Have another worker hold the ladder at the bottom. If another worker holds the ladder, they must: -Wear a hard hat; -Hold the ladder with both hands; -Brace the ladder with their feet; and -Not look up.
5	Keep the areas around the top and bottom of the ladder clear.
6	Extend the top of the ladder at least 36 inches (3 feet) above the landing.
7	-Climb the ladder carefully - facing it - and use both hands. -Use a tool belt and hand-line to carry material to the top or bottom of the ladder. -Wear shoes in good repair with clean soles.
8	Inspect the ladder every day, prior to use, for the following problems: -Rail or rung damage -Broken feet -Rope or pulley damage -Rung lock defects or damage -Excessive dirt, oil, or grease If the ladder fails inspection, it must be removed from service and tagged with a "Do Not Use" sign.

4.2.8 Hand and Power Tools

All hand and power tools will be maintained in a safe condition and in good repair. Hand and power tools will be used in accordance with 29 CFR 1926, Subpart I (1926.300 through 1926.307). Neither T&R Environmental nor its subcontractors will issue unsafe tools, and workers are not permitted to bring unsafe tools on-site. All tools will be used, inspected, and maintained in accordance with the manufacturer's instructions. Throwing tools or dropping tools to lower levels is prohibited. Hand and power tools will be inspected, tested, and determined to be in safe operating condition prior to each use. Periodic safety inspections of all tools will be conducted to assure that the tools are in good condition, all guards are in place, and the tools are being properly maintained. Any tool that fails an inspection will be immediately removed from service and tagged with a "Do Not Use" sign.

Workers using hand and power tools, who are exposed to falling, flying, abrasive, or splashing hazards will be required to wear personal protective equipment (PPE). Eye protection must always be worn when working on-site. Additional eye and face protection, such as safety goggles or face shields, may also be required when working with specific hand and power tools. Workers, when on-site, will wear hard hats. Additional hearing protection may be required when working with certain power tools. Workers using tools, which may subject their hands to an injury, such as cuts, abrasions, punctures, or burns, will wear protective gloves. Loose or frayed clothing, dangling jewelry, or loose long hair will not be worn when working with power tools.

Electric power-operated tools will be double insulated or grounded, and equipped with an on/off switch. Guards must be provided to protect the operator and other nearby workers from hazards such as in-going nip points, rotating parts, flying chips, and sparks. All reciprocating, rotating and moving parts of tools will be guarded if contact is possible. Removing machine guards is prohibited.

Abrasive wheels will only be used on equipment provided with safety guards. Safety guards must be strong enough to withstand the effect of a bursting wheel. Abrasive wheels will not be operated in excess of their rated speed. Work or tool rests will not be adjusted while the wheel is in motion. All abrasive wheels will be closely inspected and ring tested before each use, and any cracked or damaged wheels will be removed immediately and destroyed.

Circular saws must be equipped with guards that completely enclose the cutting edges and have anti-kickback devices. All planer and joiner blades must be fully guarded. The use of cracked, bent, or otherwise defective parts is prohibited. Chain saws must have an automatic chain brake or kickback device. The worker operating the chain saw will hold it with both hands during cutting operations. A chain saw must never be used to cut above the operator's shoulder height. Chain saws will not be re-fueled while running or hot. Power saws will not be left unattended.

Only qualified workers will operate pneumatic tools, powder-actuated tools, and abrasive blasting tools.

4.2.9 Manual Lifting

Back injuries are among the leading occupational injuries reported by industrial workers. Back injuries such as pulls and disc impairments can be reduced by using proper manual lifting techniques. Leg muscles are stronger than back muscles, so workers should lift with their legs and not with their back. Proper manual lifting techniques include the following steps:

STEP	PROPER MANUAL LIFTING PROCEDURE
1	Plan the lift before lifting the load. Take into consideration the weight, size, and shape of the load.
2	Preview the intended path of travel and the destination to ensure there are no tripping hazards along the path.
3	Wear heavy-duty work gloves to protect hands and fingers from rough edges, sharp corners, and metal straps. Also, keep hands away from potential pinch points between the load and other objects.
4	Get the load close to your ankles, and spread your feet apart. Keep your back straight and do not bend your back too far; instead bend at your knees.
5	Feel the weight; test it.
6	Lift the load smoothly, and let your legs do the lifting. If you must pivot, do not swing just the load; instead, move your feet and body with the load.

If the load is too heavy, then do not lift it alone. Lifting is always easier when performed with another person. Assistance should always be used when it is available.

4.2.10 Weather-Related Hazards

Weather-related hazards include the potential for heat or cold stress, electrical storms, treacherous weather-related working conditions, or limited visibility. These hazards correlate with the season in which Site activities occur. Outside work will be suspended during electrical storms. In the event of other adverse weather conditions, the Site Safety

Officer will determine if work can continue without endangering the health and safety of Site personnel.

4.2.11 Ticks and Lyme Disease

Lyme disease is typically transferred by ‘hard ticks”. Early symptoms of Lyme Disease include fever, headache, fatigue, depression, and a characteristic “bulls-eye” rash on 30% of cases. Ticks bites are often painless an in partially protected areas on the body (underarms, back of knee, behind the ear). Reports of ticks carrying Lyme Disease have been confirmed in every Canadian province and most U.S. states. Preventative measures for ticks include:

- Spraying clothing with insect repellant as a barrier
- Wearing protective clothing including: a hat, long sleeved shirt tucked into pants, and pants tucked into socks or boots. At regular intervals throughout the day, check to ensure clothes remain tucked in.
- Checking for ticks on or under clothing after working in a tick infested area. Use a mirror if needed, as ticks may feed on hard to see areas of the body.
- If you discover a tick, remove it by using a bank card or Tick Key to scrape slowly and remove the entire tick. You can also use fine tipped tweezers to grasp the tick as close to the skins surface as possible. Try not to squeeze the body as this may increase the chance of bacteria entering the bloodstream. Wash the affected area with soap and water or disinfectant.

5.0 SITE WORK ZONES

The following work zones will be delineated by T&R Environmental during the investigation activities.

5.1 CONTROL ZONES

Control boundaries will be established within the areas of Site activities. Examples of boundary zones include the exclusion and decontamination zone. All boundaries will be dynamic, and will be determined by the planned activities for the day. The Field Team Leader will record the names of any visitors to the Site.

5.2 EXCLUSION ZONE

The controlled portion of the Site will be delineated to identify the exclusion zone, wherein a higher level of personal protective equipment (PPE) may be required for entry during intrusive activities. The limits of the exclusion zone will be designated at each work location appropriately. A decontamination zone will be located immediately outside the entrance to the exclusion zone. Personnel leaving the exclusion zone will be required to adhere to proper decontamination procedures.

A "super exclusion" zone will be established around the borehole which will not be entered by T&R Environmental personnel at any time during any active drilling, slambar, cathead, silica sand dumping, or other related activities. The drilling contractor will be directed to stop such activity when T&R Environmental site team members have a need to enter this zone.

5.3 DECONTAMINATION ZONE

The decontamination zone will be located immediately outside the entrance to the exclusion zone on its apparent upwind side, if feasible, and will be delineated with caution tape and traffic cones as needed. This zone will contain the necessary decontamination materials for personnel decontamination. Decontamination procedures are outlined in Section 8.0 of this plan.

6.0 SITE MONITORING AND ACTION LEVELS

6.1 SITE MONITORING

Field activities associated with drilling, excavation, and sampling may create potentially hazardous conditions due to the migration of contaminants into the breathing zone. These substances may be in the form of mists, vapors, dusts, or fumes that can enter the body through ingestion, inhalation, absorption, and direct dermal contact. Monitoring for VOCs and particulates will be performed as needed to ensure appropriate personal protective measures are employed during site activities.

A separate Community Air Monitoring Plan (CAMP) has also been developed to protect the surrounding neighborhood. It is assumed that continuous downwind particulate and VOC monitoring will not be required during drilling and that air monitoring will not be required during groundwater monitoring events.

The following describes the conditions that will be monitored for during the investigation activities. All background and Site readings will be logged, and all instrument calibrations, etc., will be logged.

Organic Vapor Concentrations – During drilling and excavation activities, organic vapors will be monitored continuously in the breathing zone in the work area with a portable photoionization detector (PID), such as a miniRAE Model 3000 with a 10.2 eV lamp. The instrument will be calibrated daily or as per the manufacturer's recommendations. PID readings will be used as the criteria for upgrading or downgrading protective equipment and for implementing additional precautions or procedures.

Split spoons or other soil sampling devices will be monitored using the PID at the time they are opened, with appropriate PPE to be used where soils exhibit measurable volatile organic compound levels.

Particulates - Should subsurface conditions be observed to be dry, T&R Environmental will perform particulate monitoring with an aerosol monitor (such as the TSI 8530 DustTrak II) within the outdoor work area to monitor personal exposures to particulates and to compare work area readings with downwind and upwind readings. The first readings of the day will be obtained prior to the commencement of work to obtain a daily background reading, and the instrument will be zeroed daily and calibrated to manufacturer's specifications. Readings will be manually recorded approximately every 30 minutes thereafter. If the work area particulate levels exceed the background levels by more than 0.15 mg/m^3, the Contractor will be instructed to implement dust suppression measures.

6.2 ACTION LEVELS

During the course of any activity, as long as PID readings in the breathing zone are less than 5 ppm above background, Level D protection will be considered adequate. Level C protection will be required when VOC concentrations in ambient air in the work zone exceed 5 ppm total VOCs above background but remain below 50 ppm total VOCs.

If concentrations in the work zone exceed 50 ppm for a period of 5 minutes or longer, work will immediately be terminated by the Site Safety Officer. Options to allow continued drilling or excavation would then be discussed amongst all parties. Supplied-air respiratory protection is generally required for drilling to resume under these conditions. If Level B protection is not used, work may resume in Level C once monitoring concentrations have decreased below 50 ppm and conditions outlined in the CAMP are met.

If the monitoring of fugitive particulate levels within the work area exceeds 0.15 mg/m^3 above background, then the Contractor will be directed to implement fugitive dust control measures which may include use of engineering controls such as water spray.

7.0 PERSONAL PROTECTIVE EQUIPMENT

Based on an evaluation of the hazards at the Site, personal protective equipment (PPE) will be required for all personnel and visitors entering the drilling exclusion zone(s). It is anticipated that all T&R Environmental oversight work will be performed in Level D. All contractors will be responsible for selection and implementation of PPE for their personnel.

7.1 PROTECTIVE CLOTHING/RESPIRATORY PROTECTION

Protective equipment for each level of protection is as follows:

If PID readings are above 50 ppm, requiring an upgrade to Level B, Site work will be halted pending review of conditions and options by T&R Environmental and other involved parties.

When PID readings range between 5 and 50 ppm, upgrade to Level C:

Level C

- Full face, air purifying respirator with organic/HEPA cartridge;
- Disposable chemical resistant one-piece suit (Tyvek or Saranex, as appropriate);
- Inner and outer chemical resistant gloves;
- Hard hat;
- High visibility clothing;
- Steel-toed boots; and
- Disposable booties or chemical resistant boots are required.

When PID readings range between background and 5 ppm use Level D:

Level D

- Safety glasses;
- High visibility clothing;
- Steel-toed boots;
- Protective cotton, latex or leather gloves depending on Site duties;
- Hard hat; and
- Tyvek coverall (optional).

When working with liquid paint, special PPE is required. In addition to the PPE outlined in Level C, Polyvinyl Alcohol (PVA) gloves will be worn when there is potential for dermal contact with liquid paint.

8.0 DECONTAMINATION

8.1 PERSONAL DECONTAMINATION

For complete decontamination, all personnel will observe the following procedures upon leaving the exclusion zone:

1. Remove disposable outer boots and outer gloves and place in disposal drum.
2. If using a respirator, remove respirator, dispose of cartridges if necessary, and set aside for later cleaning.
3. Remove disposable chemical resistant suits and dispose of articles in drum.
4. Remove and dispose of inner gloves.

Decontamination solutions shall be supplied at the decontamination zone. The wash solution will consist of water and detergent such as Alconox or trisodium phosphate (TSP), and the rinse solution will consist of clean water.

Contaminated wash solutions shall be collected and containerized for disposal. All other disposable health and safety equipment will be decontaminated and disposed of as non-hazardous waste.

8.2 EQUIPMENT DECONTAMINATION

If equipment is used during field activities, it will be properly washed or steam-cleaned prior to exiting the decontamination zone. Pre- or post-use rinsing using solvents will be done wearing appropriate PPE.

When feasible, monitoring instruments will be either wrapped in plastic or carried by personnel not involved in handling contaminated materials, to reduce the need for decontamination. All instruments will be wet-wiped prior to removal from the work zone.

9.0 EMERGENCY PROCEDURES

The Site Safety Officer will coordinate emergency procedures and will be responsible for initiating emergency response activities. Emergency communications at the Site will be conducted verbally and by means of an air or vehicle horn. All personnel will be informed of the location of the cellular telephone and horn. Three blasts on the air or vehicle horn will be used to signal distress.

9.1 LIST OF EMERGENCY CONTACTS

Ambulance: 911
Hospital: **FF Thompson Hospital: 585-396-6000**
Fire Department: 911
Police: 911
Poison Control Center: 1-800-222-1222
Utility Emergency: 911

9.2 DIRECTIONS TO HOSPITAL

A map presenting directions to the hospital is provide in Figure 2. The route shall be reviewed at the initial site safety meeting onsite.

9.3 ACCIDENT INVESTIGATION AND REPORTING

A. All accidents requiring first aid, which occur incidental to activities onsite, will be investigated. The investigation format will be as follows:

   - interviews with witnesses,
   - pictures, if applicable, and
   - necessary actions to alleviate the problem.

B. In the event that an accident or some other incident such as an explosion or exposure to toxic chemicals occurs during the course of the project, the Project Health and Safety Officer will be telephoned as soon as possible and receive a written notification within 24 hours. The report will include the following items:

   - Name of injured;
   - Name and title of person(s) reporting;
   - Date and time of accident/incident;
   - Location of accident/incident, building number, facility name;
   - Brief summary of accident/incident giving pertinent details including type of operation ongoing at the time of the accident/incident;

- Cause of accident/incident;
- Casualties (fatalities, disabling injuries), hospitalizations;
- Details of any existing chemical hazard or contamination;
- Estimated property damage, if applicable;
- Nature of damage; effect on contract schedule;
- Action taken to insure safety and security; and
- Other damage or injuries sustained (public or private).

Where reportable injuries, hospitalizations or fatalities occur amongst T&R Environmental personnel, the necessary document required by OSHA will be submitted within timeframes allowed by law.

The accident report form is illustrated in Table 4.

TABLES

Table 1: Health and Safety Data for Contaminants of Concern

Compound	PEL/ TWA	Physical Description	Odor Threshold in Air	Route of Exposure	Symptoms	Target Organs
VOCs						
Benzene	10 ppm	Colorless liquid with a characteristic sweet aromatic odor	5 ppm (8.65 ppm)	Inhalation, Skin Absorption, Ingestion, Skin/Eye Contact	Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude (weakness, exhaustion); dermatitis; bone marrow depression	Carcinogen; Eyes, Skin, Respiratory System, Blood, Central Nervous System, Bone Marrow
Dichloroethane, 1,2-(1,2-DCA)	50 ppm	Colorless liquid with a pleasant, chloroform-like odor. [Note: Decomposes slowly, becomes acidic & darkens in color.]	11.2 ppm	Inhalation, ingestion, skin absorption, skin and/or eye contact	Irritation eyes, corneal opacity; central nervous system depression; nausea, vomiting; dermatitis; liver, kidney, cardiovascular system damage; [potential occupational carcinogen]	Eyes, skin, kidneys, liver, central nervous system, cardiovascular system
cis- 1,2-Dichloroethene (cis-1,2-DCE)	200 ppm	Colorless liquid with a slightly acrid, chloroform-like odor	NA	inhalation, ingestion, skin and/or eye contact	Irritation, nausea, vomiting, drossiness	Eyes, respiratory system, central nervous system
Ethylbenzene	100 ppm	Colorless liquid with an aromatic odor.	2.3 ppm	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma	Eyes, skin, respiratory system, central nervous system
Isopropylbenzene	50 ppm	Colorless liquid with a sharp, penetrating, aromatic odor.	0.024 ppm	Inhalation, skin absorption, ingestion, skin and/or eye contact	irritation eyes, skin, mucous membrane; dermatitis; headache, narcosis, coma	Eyes, skin, respiratory system, central nervous system
Methyl Ethyl Ketone (2-butanone or MEK)	200 ppm	Colorless liquid with a moderately sharp, fragrant, mint- or acetone-like odor	0.27 ppm	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose; headache; dizziness; vomiting; dermatitis	Eyes, skin, respiratory system, central nervous system
Propylbenzene, n-		Colorless liquid.	NA	Inhalation, Ingestion, Skin/Eye Contact	Irritate or burn skin and eyes; respiratory tract irritation, suffocation, aspiration hazard if swallowed	Lungs, Eyes, Kidney

Compound	PEL/ TWA	Physical Description	Odor Threshold in Air	Route of Exposure	Symptoms	Target Organs
Toluene	100 ppm	Colorless liquid with a sweet, pungent, benzene-like odor	0.16 ppm	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, insomnia; paresthesia; dermatitis; liver, kidney damage	Eyes, skin, respiratory system, central nervous system, liver, kidneys
Trichloroethylene (TCE)	100 ppm	Colorless liquid with a chloroform-like odor	1.36 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; headache, visual disturbance, lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury; [potential occupational carcinogen]	Eyes, skin, respiratory system, heart, liver, kidneys, central nervous system
Trimethylbenzene, 1,2,4- (1,2,4-TMB)	25 ppm	Clear, colorless liquid with a distinctive, aromatic odor	2.4 ppm	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eyes, skin, respiratory system, central nervous system, blood
Trimethylbenzene, 1,3,5- (1,3,5-TMB)	25 ppm	Clear, colorless liquid with a distinctive, aromatic odor	2.4 ppm	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eyes, skin, respiratory system, central nervous system, blood
Xylenes	100 ppm	Colorless flammable liquid, sweet aromatic odor.	0.08 ppm (0.851 ppm, 0.324 ppm, and 0.49 ppm)	Inhalation, Skin Absorption, Ingestion, Skin/Eye Contact	Irritation eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; anorexia, nausea, vomiting, abdominal pain; dermatitis	Eyes, Skin, Respiratory System, Central Nervous System, Gastrointestinal Tract, Blood, Liver, kidneys
SVOCs						
Acenaphthylene	NA	Yellow solid powder	NA	Inhalation, Skin Absorption, Ingestion, Skin/Eye Contact	NA	NA
Anthracene	NA	Slight odor. Solid.	NA	Inhalation, Skin Absorption, Ingestion, Skin/Eye Contact	Eye and skin irritant, carcinogen. Toxic to kidneys, lungs, mucous membranes.	Eyes, skin, kidneys, lungs, mucous membranes

Compound	PEL/ TWA	Physical Description	Odor Threshold in Air	Route of Exposure	Symptoms	Target Organs
Benzo (a) anthracene*	0.2 mg/m^3	Colorless crystals with violet fluorescence when pure; yellow with green fluorescence when impure; faint aromatic odor	0.2 mg/m^3	Inhalation, Ingestion, Skin/Eye Contact	Dermatitis, bronchitis, [potential occupational carcinogen]	Respiratory System, Skin, Bladder, Kidneys
Benzo (a) pyrene*	0.2 mg/m^3	Yellow to brown powder with faint aromatic odor	0.2 mg/m^3	Inhalation, Ingestion, Skin/Eye Contact	Dermatitis, bronchitis, [potential occupational carcinogen]	Respiratory System, Skin, Bladder, Kidneys
Benzo (b) fluoranthene*	0.2 mg/m^3	Solid; colorless crystals	0.2 mg/m^3	Inhalation, Ingestion, Skin/Eye Contact	Dermatitis, bronchitis, [potential occupational carcinogen]	Respiratory System, Skin, Bladder, Kidneys
Benzo(ghi)perylene	0.2 mg/m^3	Yellow, odorless solid.	0.2 mg/m^3	Inhalation, Ingestion, Skin/Eye Contact	Dermatitis, bronchitis, [potential occupational carcinogen]	Respiratory System, Skin, Bladder, Kidneys
Benzo (k) fluoranthene*	0.2 mg/m^3	Crystalline.	0.2 mg/m^3	Inhalation, Ingestion, Skin/Eye Contact	Dermatitis, bronchitis, [potential occupational carcinogen]	Respiratory System, Skin, Bladder, Kidneys
Bis (2-Ethylhexyl) phthalate	5 mg/m^3	Colorless to light yellow oily liquid with a slight odor	NA	Inhalation, Ingestion, Skin/Eye Contact	Irritation eyes, mucous membrane; liver damage; teratogenic effects; [potential occupational carcinogen]	Eyes, respiratory system, central nervous system, liver, reproductive system, gastrointestinal tract
2-Butoxyethanol	240 mg/m^3	Colorless Liquid with ether/pleasant odor	NA	Inhalation, Ingestion, Skin/Eye Contact	Eye irritation, ski irritation, may affect behavior (analgesia), nausea, vomiting, respiratory problems (dyspnea), [potential occupational carcinogen]	Eyes, respiratory system, circulatory system, reproductive system, nervous system
Chrysene*	0.2 mg/m^3	Light beige solid	0.2 mg/m^3	Inhalation, Ingestion, Skin/Eye Contact	Dermatitis, bronchitis, [potential occupational carcinogen]	Respiratory System, Skin, Bladder, Kidneys
Dibenzo (a,h) anthracene*	0.2 mg/m^3	White to yellow crystalline solid	0.2 mg/m^3	Inhalation, Ingestion, Skin/Eye Contact	Dermatitis, bronchitis, [potential occupational carcinogen]	Respiratory System, Skin, Bladder, Kidneys

Compound	PEL/ TWA	Physical Description	Odor Threshold in Air	Route of Exposure	Symptoms	Target Organs
Fluoranthene*	0.2 mg/m^3	Solid; colorless crystals	0.2 mg/m^3	Inhalation, Ingestion, Skin/Eye Contact	Dermatitis, bronchitis, [potential occupational carcinogen]	Respiratory System, Skin, Bladder, Kidneys
Indeno (1,2,3-cd) pyrene*	0.2 mg/m^3	Solid; yellow crystals	0.2 mg/m^3	Inhalation, Ingestion, Skin/Eye Contact	Dermatitis, bronchitis, [potential occupational carcinogen]	Respiratory System, Skin, Bladder, Kidneys
Naphthalene	10 ppm (50 mg/m^3	Colorless to brown solid with an odor of mothballs	0.015 ppm	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes; headache, confusion, excitement, malaise (vague feeling of discomfort); nausea, vomiting, abdominal pain; irritation bladder; profuse sweating; jaundice; hematuria (blood in the urine), renal shutdown; dermatitis, optical neuritis, corneal damage	Eyes, skin, blood, liver, kidneys, central nervous system
Phenanthrene	0.2 mg/m^3	Solid	0.2 mg/m^3	Inhalation, skin absorption, ingestion, skin and/or eye contact	Causes photosensitivity, may cause respiratory irritation	Respiratory system, eyes.
Pyrene	0.2 mg/m^3	Colorless or yellow crystalline or powdered solid	0.2 mg/m^3	Inhalation, Ingestion, Skin/Eye Contact	Dermatitis, bronchitis, [potential occupational carcinogen]	Respiratory System, Skin, Bladder, Kidneys
Metals						
Arsenic	0.010 mg/m^3	Silver-gray or tin-white, brittle odorless, lustrous solid.	NA	Inhalation, Skin Absorption, Ingestion, Skin/Eye Contact	Dermatitis; ulceration of nasal septum; gastrointestinal and/or respiratory irritation; peripheral neuropathy	Carcinogen, CNS, kidneys, lungs, liver, skin, mucous membranes
Barium	0.500 mg/m^3	Soft, silvery, odorless, lustrous metal.	NA	Inhalation, Ingestion, Skin/Eye Contact	Eye/skin irritation, inflammation, or rash; burns; nausea, vomiting, headache; fever; irregular breathing	CNS, kidneys
Cadmium	0.01 mg/m^3	Lustrous solid	NA	Inhalation, Ingestion, Skin/Eye Contact	Irritation skin, eye, ingestion	Eyes, skin, kidneys, lungs, liver
Chromium	1 mg/m^3	Blue-white to steel-gray, lustrous, brittle, hard, odorless solid.	NA	Inhalation, Ingestion, Skin/Eye Contact	Irritation eyes, skin; lung fibrosis (histologic)	Eyes, skin, respiratory system

Compound	PEL/ TWA	Physical Description	Odor Threshold in Air	Route of Exposure	Symptoms	Target Organs
Lead	0.050 mg/m^3	A heavy, ductile, soft, gray solid.	NA	Inhalation, Ingestion, Skin/Eye Contact	Lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation eyes; hypotension	Eyes, gastrointestinal tract, central nervous system, kidneys, blood, gingival tissue
Mercury	0.025 mg/m^3	Silver-white odorless heavy liquid.	NA	Inhalation, Skin Absorption, Ingestion, Skin/Eye Contact	Irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, indecision, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria	Eyes, skin, respiratory system, central nervous system, kidneys
Selenium	0.02 mg/m^3	Solid lustrous	NA	Inhalation, dermal, ingestion, eyes	Eye irritant. Respiratory system irritant. Slightly skin irritant	Repeated exposure it not known to aggravate medical condition.
Silver	0.01 mg/m^3	Solid lustrous	NA	Inhalation, dermal, ingestion, eyes	Eye irritant. Respiratory system irritant	General accumulation in many organs
Polychlorinated Biphenyls (PCBs)	Aroclor 1254 - 0.5 mg/m^3 Aroclor 1260 - 1 mg/m3	Range in color from clear to pale yellow with a mild petroleum odor	NA	Inhalation, dermal, ingestion, eyes	Irritation to eyes, skin; headaches	Skin irritation, liver injury

Notes:

NA - not available
PEL - permissible exposure limits
TWA - time weighted average, 8-hour workday
mg/m^3 - milligrams per cubic meter

ppm - parts per million

TABLE 4
ACCIDENT REPORT

Project _____ Date of Occurrence_____

Location _____
_____

Type of Occurrence: (check all that Apply)

☐Disabling Injury ☐Other Injury
☐Property Damage ☐Equip. Failure
☐Chemical Exposure ☐Fire
☐Explosion ☐Vehicle Accident
☐Other (explain)_____
_____

Witnesses to Accident/Injury:

_____ _____
_____ _____
_____ _____

INJURIES

Name of Injured _____

What was being done at the time of the accident/injury?

_____
_____

What corrective actions will be taken to prevent recurrence?

_____
_____

T&R ENVIRONMENTAL SIGNATURES

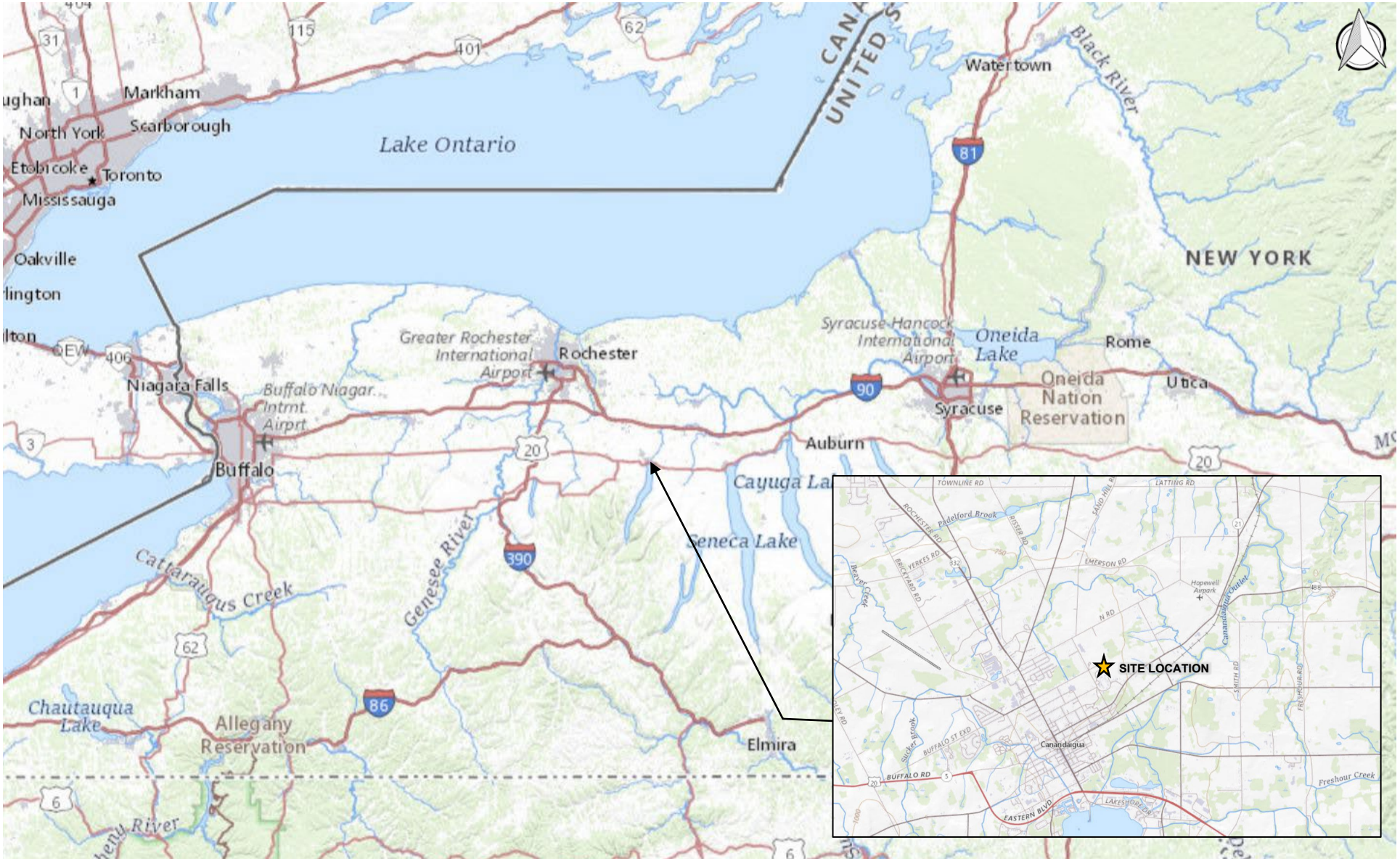
Health and Safety Officer _____ Date _____

Project Manager _____ Date _____

Reviewer _____ Date _____

Comments by reviewer _____
_____
_____

FIGURES



ENVIRONMENTAL

US DEPARTMENT OF VETERAN AFFAIRS
FINGER LAKES HEALTH CARE SYSTEM
SITE CHARACTERIZATION WORK PLAN (HASP)
CANANDAIGUA, NY

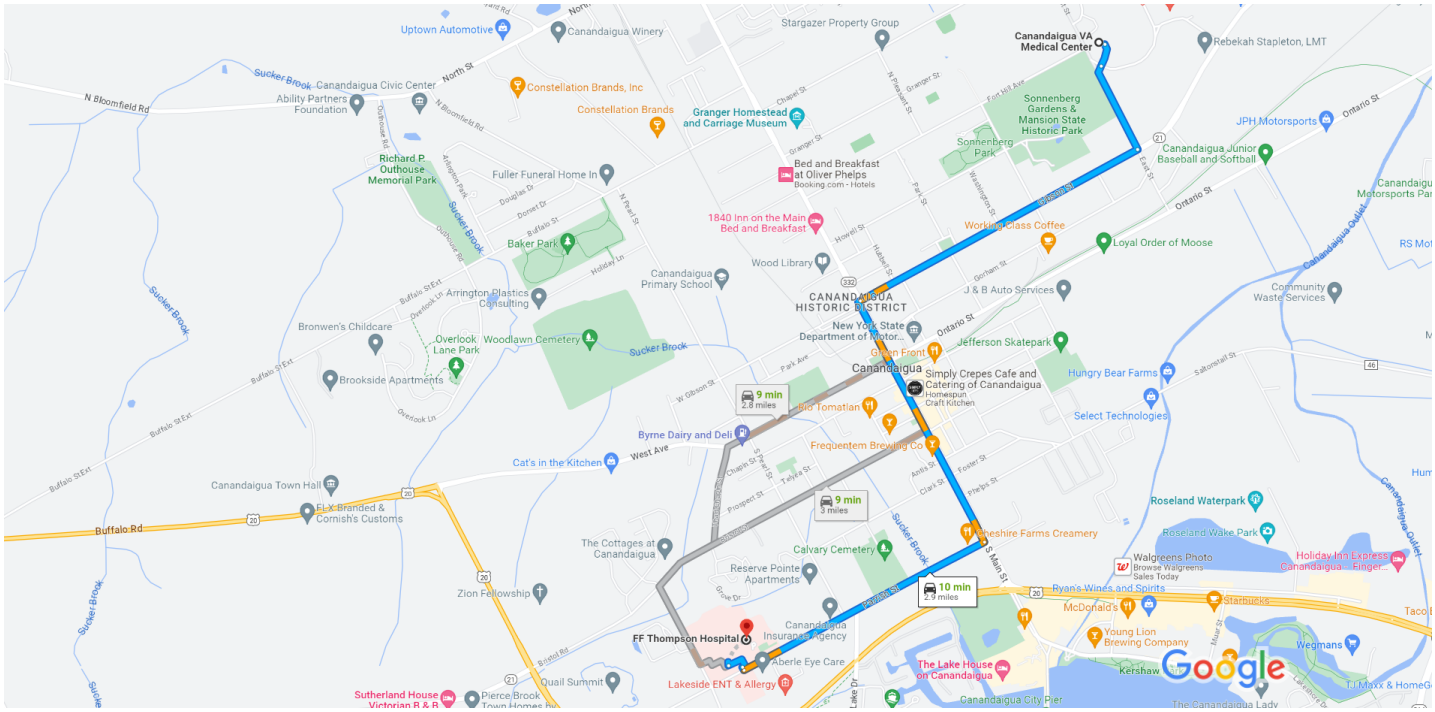
FIGURE 1
SITE
LOCATION MAP
MARCH 14, 2023
NOT TO SCALE
DRAFTED BY: KTS

Google Maps

Canandaigua VA Medical Ctr to FF Thompson Hospital

Drive 2.9 miles, 10 min

Figure 2 - Map to Hospital



Map data ©2023 Google 1000 ft

Canandaigua VA Medical Ctr
400 Fort Hill Ave, Canandaigua, NY 14424

Take East St to State Rte 21 S/Gibson St

2 min (0.3 mi)

1. Head southeast

354 ft

2. Slight left onto East St

0.3 mi

3. Turn right onto State Rte 21 S/Gibson

0.9 mi

4. Turn left onto N Main St

0.8 mi

5. Turn right onto Parrish St

0.8 mi

6. Turn right

49 ft

7. Turn right

384 ft

8. Turn right

Destination will be on the left

52 ft

FF Thompson Hospital
350 Parrish St, Canandaigua, NY 14424

APPENDICES

APPENDIX A

SAFETY DATA SHEETS (IF APPLICABLE)

APPENDIX B

ON-SITE SAFETY MEETING FORMS

Pre-Work Tailgate Safety Meeting Form

This form is intended for projects of up to 7 consecutive days on one site. If work will last longer than the days provided on this form, please start a new RMS2 to refresh hazard awareness.

Project Number: _____ **Date:** _____

Project Name: _____

Project Location: _____

Description of Work:

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
HASP/RMS1 reviewed with staff on site	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐
Review of STOP Work Authority with staff & subs	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐
Emergency plan adequate and communicated	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐
Tools and appropriate PPE inspected before use	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐
Last Minute Risk Assessment process reviewed	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐

If the answer to any of the questions above is not "Yes" Stop work and contact your supervisor.

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Field crews have certifications on site	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐
Utility locates on site and understood	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐
Working alone plan in place	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐
Work permits completed	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐
Client site safety meeting conducted/attended	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐
Are there additional critical risks, JSA tasks or energy hazards? If yes, update the JSA and communicate to the team		Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐	Yes ☐ N/A ☐

STOP AND THINK ABOUT YOUR TASKS BEFORE PERFORMING THEM. IF YOU ARE NOT COMFORTABLE, STOP WORK AND FIND A SAFER WAY.

Pre-Work Tailgate Safety Meeting Form

JOB SAFETY ANALYSIS (JSA)				
	Basic Job Steps	Describe Energy Hazard	Controls	Person Responsible
1	Site Work	Motion	Slip/Trip/Fall: -LMRA -Plan Route -Be/Stay Aware of Surroundings	All
2	Site Work	Motion	Contact - Vehicles/Equipment: -High-Vis. Clothing -Eye Contact with Operator -Avoid Blind Spots	
3	Site Work	Biological	Flora/Fauna: -Preventative Sprays and/or Clothing -Daily Tick Checks After Completion of Work Tasks	
4	Site Work	Chemical	Hazardous Soils: -Limit Exposure -Proper PPE	
5	Site Work	Thermal	Heat/Cold Stress: -Have Warming/Cooling Environments Available (Trucks/Job Trailer) -Proper PPE -Fluid Intake (cool/warm) -Be Aware of Signs of Stress	
6	Site Work	Gravity	Rigging: -Stay Well Clear of Overhead/ Rigged Equipment Including Fall Zone -Understand Lifting Plan	
7				
8				

Pre-Work Tailgate Safety Meeting Form

CRITICAL RISKS						
 Driving	 Working at Heights	 Traffic Control	 Wildlife, Insects and Vegetation	 Mobile and Heavy Equipment	 Environments with water or ice
☑ Yes	☐ Yes	☐ Yes	☑ Yes	☑ Yes	☐ Yes
 Ground Disturbance	 Ergonomic Hazards and Manual Handling	 Hazardous Materials and Environments	 Control of Hazardous Energy	 Hot Work	 Confined Spaces
☑ Yes	☑ Yes	☑ Yes	☐ Yes	☐ Yes	☐ Yes

ENERGY HAZARD			
	**Thermal:** Open flame, electric ignition sources (including phones and friction), hot or cold surfaces, liquids or gasses, weather conditions including humidity levels and snow/ice		**Gravity**: Falling objects, collapsing objects, slipping, tripping or falling
	**Chemical:** Flammable vapors, reactive hazards, carcinogens or other toxic compounds, corrosives, pyrophorics, combustibles, oxygen deficient atmospheres, fumes, dusts, naturally occurring gases		**Motion**: Vehicles (car, truck, ATV, ARGO, boat, snowmobile, bicycles, transit, mobile equipment, trailer), workers and other people (lifting, pushing, pulling, carrying, use of hand and power tools, body position, walking), flowing water, sprung branches
	**Biological**: Animals, bacteria, viruses, insects, blood borne pathogens (needles), poisonous and noxious plants, contaminated water, human behaviors (protesters, concerned citizens, onlookers)		**Mechanical**: Rotating equipment (augers, pulleys, drive shafts), compressed springs, drive belts, conveyors and motors
	**Radiation**: Welding, NORMs (Naturally Occurring Radioactive Material), X rays, Nuclear Densometers, Lasers, Microwaves, Solar, Radioactive waste and sources		**Electrical**: Power and communication lines (overhead and buried), static charge, lightning, energized equipment, wiring, batteries, GFCI cords/plugs, lighting levels, double insulated tools, wet environment
	**Noise**: Stationary or mobile equipment, impact noise, high pressure release, impact of noise on communication		**Pressure**: pressure piping, compressed cylinders (fire extinguisher, calibration gas, propane), control lines, vessels, tanks, hoses, pneumatic and hydraulic equipment

Meeting details	
Day 1	
Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:

Pre-Work Tailgate Safety Meeting Form

Day 2	
Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:
Day 3	
Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:
Day 4	
Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:

Pre-Work Tailgate Safety Meeting Form

Day 5

Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:

Day 6

Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:

Day 7

Date:	Weather:
Pre-start time:	
Notes:	
Mid-day time:	
Notes:	
End of day time:	
Notes:	
Toolbox Discussion Leader Name:	Toolbox Leader Signature:

Pre-Work Tailgate Safety Meeting Form

Review/Sign-off
Print the company that you work for, your name and indicate which fitness level you are under the corresponding time column:
Fit for Duty = F Alternate Plan = AP

		Date:			Date:			Date:			Date:		
Company name	**Print your name**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**
T&R	Kyle Stone	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
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		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:

Pre-Work Tailgate Safety Meeting Form

Review / Sign-off

Print the company that you work for, your name and indicate which fitness level you are under the corresponding time column:
Fit for Duty = F Alternate Plan = AP

		Date:			**Date:**			**Date:**		
Company name	**Print your name**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**	**Time:**
T&R	Kyle Stone	F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:
		F:	F:	F:	F:	F:	F:	F:	F:	F:
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		F:	F:	F:	F:	F:	F:	F:	F:	F:
		AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP:	AP: