

KATZMAN RECYCLING SITE WASHINGTON COUNTY GRANVILLE, NEW YORK

Basis of Design Report

NYSDEC Site Number: 558035



Prepared for:



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March 2024



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Acronyms and Abbreviations

ASP Analytical Services Protocol bgs Below Ground Surface

CAMP Community Air Monitoring Plan

CGE Clean Globe Environmental of Amagansett, New York

COCs Contaminants of Concern

CUSCOs Commercial Use Soil Cleanup Objectives
DER Division of Environmental Remediation

DPT Direct Push Technology
FFS Focused Feasibility Study
GPS Global Positioning System
IDW Investigation Derived Waste
IRM Interim Remedial Measure

NYCRR New York Code of Rules and Regulations

NYSDEC New York State Department of Environmental Conservation

NYSDOH New York State Department of Health

mg/kg Milligrams per Kilogram

MS/MSD matrix spike/matrix spike duplicate

PCBs Polychlorinated Biphenyls
PDI Pre-Design Investigation

PFAS Per- and Polyfluoroalkyl Substances

PID Photo-Ionization Detector

ppm Parts Per Million
PVC Poly-Vinyl Chloride

QA/QC Quality Assurance/Quality Control

RI Remedial Investigation
ROD Record of Decision

SCGs Standards, Criteria, and Guidance SIR Subsurface Investigation Report

SMS Short Message Service
TAL Target Analyte List
TCL Target Compound List
TRC TRC Engineers, Inc.

USEPA United States Environmental Protection Agency
UUSCOs Unrestricted Use Soil Cleanup Objectives

VOCs Volatile Organic Compounds

WA Work Assignment µg/L Micrograms per Liter





1.0 Introduction

This report presents the basis for the Remedial Design (RD) for the Katzman Recycling Site (the Site) located at 24 County Road 26, near the intersection with NY-22, in Granville, Washington County, New York (**Figure 1**). The data and concept-level descriptions of the planned remedial action in this Basis of Design Report will be used for the development of the contract documents for the remedial action.

The Site was owned by Samuel Katzman from 1949 to 2007 and operated as a scrap metal recycling facility, with an onsite incinerator. Prior to 1949, the Site consisted of undisturbed wetlands and forested areas. Historical investigations associated with the Site identified polychlorinated biphenyls (PCBs) in soil and the Site was assigned New York State Department of Environmental Conservation (NYSDEC or the Department) Site No. 558035. In July 2015, the Department issued a Remedial Investigation (RI)/Feasibility Study (FS) work assignment to TRC Engineers, Inc. (TRC) to further characterize surface soil, subsurface soil, sediment, surface water, and groundwater impacts potentially related to the Site. The RI field investigation was implemented between December 2015 and June 2017 and was completed in accordance with the NYSDEC Division of Environmental Remediation (DER) Work Assignment (WA) No. D007620-24 Notice to Proceed dated July 7, 2015, the NYSDEC-approved Scope of Work dated November 30, 2015, emails to the Department dated March 13, 2017 summarizing proposed additional field activities, subsequent discussions with the Department, and DER-10 - Technical Guidance for Site Investigation and Remediation. The results of the RI are presented in the July 2018 RI Report prepared by TRC.

A Focused Feasibility Study (FFS), prepared by TRC, was completed in August 2018 to evaluate remedial alternatives for PCB impacts in soil. A Record of Decision (ROD) was subsequently issued in February 2020, describing the selected remedy: excavation and off-site disposal of on-site soil with concentrations of PCBs which exceed the soil cleanup objectives (SCOs) for PCBs established in Commissioner Policy CP-51 of 1 part per million (ppm) in surface soil and 10 ppm in subsurface soil.

In April 2021, the Department issued a Remedial Design (RD) work assignment to TRC to complete delineation of PCB impacts at the Site, and prepare the RD for the subsequent Remedial Action. The work assignment also included asbestos and hazardous materials surveys, assistance with consolidation of debris piles and demolition of the incinerator building, completion of pre-design investigations and delineation sampling, and remedial design and pre-award services.

TRC has recently completed the PDI sampling and is currently preparing the preliminary design. This report has been prepared in accordance with the NYSDEC DER WA No. D009812-16 Notice to Proceed dated April 26, 2021, the NYSDEC-approved Supplemental Pre-Design Investigation (PDI) Scope of Work dated December 23, 2022, subsequent discussions with the Department, and DER-10.

The purpose of this report is to present the results of the PDI (**Sections 3.0** and **4.0**), present the estimated extent and volume of contamination (**Section 5.0**), identify relevant regulatory requirements (**Section 6.0**), and describe the recommended remedial action and summarize the planned remedial design activities to be implemented, including the Remedial Design and Remedial Action schedule (**Section 7.0**).



2.0 Site Description and History

2.1 Site Location and Setting

The Katzman Recycling Site is located at 24 County Road 26 in the Town of Granville, Washington County, New York (Washington County Tax Map ID: 126.-1-26) (**Figure 2**). The Site is located in a mixed commercial and residential area. According to the Washington County property description records, the property is zoned commercial. The Site encompasses approximately 20.3 acres and is bounded by County Route 26 and additional commercial properties to the west. Adjacent to the Site along the southwest is 8626 State Route 22 (and Moores' Corners, Inc. a tractor equipment supplier) and New York State Route 22. The southern portion of the property is undeveloped land. Warner's Auto Body, a used auto sales and repair facility, borders the property to the north (vehicles have been identified encroaching on the Katzman Recycling property along the northern border of the Site). Further north are athletic fields and farmland. Directly east of the property is a former Delaware and Hudson Railroad roadbed which has been converted into a recreational trail. Agricultural land and wooded land extend farther to the east.

There is a wetland which has consistent standing water, located in the southwestern part of the Site and a second delineated wetland which transects the Site (in a north-south orientation) near the center of the property, east of the former waste accumulation area (Figure 3). The Site drainage flows towards the Indian River, located southwest of Route 22, which ultimately flows into the Mettawee River. The Site entrance from Route 26 is secured by a locked gate with sections of fencing extending to the north and south along the western Site border. However, the Site northern, eastern, and southern boundaries are not fenced, but are overgrown with vegetation, making access from these directions difficult. The gravel road leading from Route 26 onto the western part of the Site provides access to the former scrap metal recycling areas that were the focus of the RI and the PDI. The majority of the Site is undeveloped, and the eastern part of the property is heavily wooded. The Site is mounded near the center of the former waste accumulation area (WAA) and slopes gently downward in all directions. Toward the southwest, the slope steepens in the vicinity of the wetland, due to the higher elevation resulting from WAA and debris piles. The elevation of the wetland is approximately 30 feet lower than the top of the slope of the WAA.

2.2 Site History / Past Use

In or around 1949, the property was purchased by Samuel Katzman, who subsequently operated the Site as a facility which accepted various metal products for recovery and recycling. This operation continued for about 58 years, until approximately 2007. A former incinerator building used during historical operations was centrally located on the Site (refer to **Figure 3**). Associated incinerator waste (i.e., used auto parts, carburetors, chain saws, automobiles, heavy equipment, white goods, transformer carcasses, capacitors and other electrical equipment) is present to the north, west, and south of the former structure, as well as in a pile along the embankment in the southwest part of the Site. The area east of the former incinerator building has been identified as a location where capacitors and transformers were likely dismantled. Additionally, to the east of the former incinerator building, several older model automobiles were discovered, scattered throughout the woods. There is a dilapidated pole barn, which was potentially used for storage and mechanical work, near the northwestern corner of the Site. Note that detailed operational records for the Site are not available. The above ground portions of the incinerator building (primarily sheet metal and



steel with no evidence of contamination) were demolished in April and May 2022. The debris generated from the incinerator building demolition was shipped to MB Auto Salvage, located in Granville, New York, for recycling.

2.3 Investigation and Remediation History

Investigation of the Site began in 2006, when NYSDEC conducted a limited Site sampling event to identify COC (Contaminants of Concern) south and east of the former incinerator building. Based on the findings, the Site was classified as a Class 2 Inactive Hazardous Waste Disposal Site by NYSDEC and assigned Site No. 558035.

Between October 2014 and January 2015, an Interim Remedial Measure (IRM) was implemented which included the excavation of surface soil and former transformer "windings" impacted with PCBs, lead, and arsenic, south and east of the incinerator building. Approximately 2,200 tons of soil and waste were removed and transported off-Site for disposal. The excavations were reportedly backfilled to ground surface with imported soil.

Between December 2015 and June 2017, the RI was undertaken. Field activities consisted of wetland and waterbody delineation; a land survey of property boundaries, topography, prominent Site features/structures, and RI sampling locations; excavation of test pits and advancement of direct push soil borings; installation of groundwater monitoring wells; collection and laboratory analysis of soil, groundwater, surface water, and sediment samples; and the removal of a 2,000-gallon aboveground storage tank from the former incinerator building. Detailed descriptions of the RI field activities and findings are included in the RI Report and are summarized within this document.

The RI results indicated that PCB impacts were present in soil in several areas across the Site, but most consistently associated with areas surrounding the former incinerator building (which is identified herein as the former waste accumulation area (or WAA), refer to **Figure 3**).

The RI results indicated the presence of arsenic, chromium, and lead in sediment above Class C sediment guidance values (SGVs) at one sediment sample location. However, no other elevated concentrations were identified, and these metals exceedances are not considered compounds of concern for the Site. There were no PCBs detected above Class C SGVs in the sediment samples collected during the RI.

The RI surface water sampling results indicated pesticide concentrations in groundwater above Technical and Operational Guidance Series (TOGS) 1.1.1 Class H(FC) and W values at two of the five sample locations, and iron concentrations above Type A(C) in four out of five locations. These parameters are not considered compounds of concern for the Site. All five surface water samples were analyzed for PCBs, however no PCBs were detected above Type A(A), A(C), H(FC) or W values in surface water. Three of the five surface water samples were analyzed for dioxins. Two of the three samples analyzed for dioxins (KTZ-SW-1 and KTZ-SW-3) contained concentrations of dioxins above Type H(FC) standard for 2,3,7,8-TCDD equivalency.

The FFS was completed by TRC in August 2018, and the ROD was subsequently issued in February 2020. The selected remedy, outlined in the ROD, includes the following elements:



- Remedial Design: A remedial design program will be implemented to provide the details necessary for the construction, operation, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31.
- Excavation: Existing on-site buildings will be demolished and materials which cannot be beneficially reused on Site will be shipped off-Site for proper disposal in order to implement the remedy. On-site soil which exceeds the soil cleanup objectives (SCOs) for PCBs established in Commissioner Policy CP-51 of 1 ppm in surface soil (to 1-foot bgs) and 10 ppm in subsurface soil [greater than 1-foot below ground surface (bgs)] will be excavated and disposed off-site. Clean fill meeting the requirements of Title 6 of New York Codes, Rules and Regulations (6 NYCRR) Part 375-6.7(d) will be imported to establish the final restoration grades at the Site.
- Cover System: A Site cover will be required to allow for commercial use of the Site in areas where the upper one foot of exposed surface soil will exceed the applicable SCOs. The ROD further stipulated that where a soil cover is to be used it will be a minimum of one foot of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material for the use of the Site as set forth in 6 NYCRR Part 375-6.7(d). Substitution of other materials and components may be allowed where such components already exist or are a component of the tangible property to be placed as part of site redevelopment. Such components may include, but are not necessarily limited to: pavement, concrete, paved surface parking areas, sidewalks, building foundations and building slabs. The area of existing trees and other vegetative growth in areas of the Site may remain as part of the Site cover.
- **Institutional Controls:** Imposition of an institutional control in the form of an environmental easement for the controlled property that:
 - requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8(h)(3);
 - allows the use and development of the controlled property for commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
 - restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH); and
 - o requires compliance with the Department approved Site Management Plan.
- Site Management Plan: A Site Management Plan is required, which includes the following:
 - o An Institutional Control and Engineering Control Plan.
 - A Monitoring Plan.
 - o The SMP will include:



- an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- descriptions of the provisions of the environmental easement including any land use restrictions;
- provisions for the management and inspection of the identified engineering controls;
- maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

The Site Management Plan is described in more detail in **Section 7.1.6**.





3.0 Soil Investigation and Delineation Activities

The Pre-Design Investigation (PDI) field activities described in this section were completed by TRC in two mobilizations. The initial PDI mobilization/field work was completed between June 15 and July 13, 2022. The work was performed in accordance with the NYSDEC approved PDI Scope of Work dated April 18, 2021. The second mobilization, the supplemental PDI, was completed between March 8 and March 13, 2023. The Supplemental PDI was performed in accordance with the NYSDEC approved Supplemental PDI Scope of Work dated March 1, 2023. The initial PDI Scope of Work and the Supplemental PDI Scope of Work were shared with United States Environmental Protection Agency (USEPA). There were no comments received from USEPA. Overall, the PDI field activities included the following:

- Surface soil sampling (completed in 2022);
- Soil borehole sampling and analysis (completed between 2022 and 2023);
- Geotechnical soil borings (completed in June 2022);
- Groundwater sampling and analysis (completed in 2023);
- Land surveying of PDI monitoring and sampling locations; and
- Community air monitoring (during subsurface intrusive activities).

The field implementation methods for the activities listed above are described below in **Sections 3.1** through **3.5**. TRC determined initial and Supplemental PDI locations utilizing a handheld global positioning system (GPS) device. Following sampling, a licensed land surveyor was contracted to measure final locations and prepare an existing conditions map, as discussed in detail in **Section 3.4**.

Standard chain-of-custody procedures were followed for sample management. Pursuant to the Department approved scopes of work, laboratory quality assurance/quality control (QA/QC) samples including field blind duplicates and matrix spike/matrix spike duplicates (MS/MSDs), were collected at a minimum frequency of 1 per 20 samples. Many of the blind duplicate samples collected during the Supplemental PDI were included in "hold" sets, and therefore were not analyzed.

Samples collected during the initial PDI mobilization (June and July 2022) were submitted to Con-test Laboratory (A Pace Analytical Laboratory), of East Longmeadow, Massachusetts, under a task order call-out through the Department. Samples collected during the Supplemental PDI (March 2023) were submitted to Test America/Eurofins Environmental Testing of Buffalo, New York (Eurofins Buffalo), under subcontract to TRC. NYSDEC ASP Category B data deliverable packages were provided by each laboratory, and TRC provided in-house data validation services.

3.1 Surface Soil Sampling

During the initial PDI mobilization (June and July 2022), TRC collected a total of 16 surface soil samples (0 – 2 inches bgs) via hand sampling methods. The surface soil locations were selected to confirm the conditions observed during the RI (conducted between December 2015 and June 2017) and to provide additional data for delineation of contamination in the surface soil. In general, the surface soil locations



were co-located with soil borings (refer to **Figure 4**) discussed in **Section 3.2**. The surface soil samples collected during the PDI program are listed below:

Surface Soil Sampling Locations

KTZ-SS-2	KTZ-SS-202	KTZ-SS-230	KTZ-SS-236
KTZ-SS-5	KTZ-SS-208	KTZ-SS-231	KTZ-SS-237
KTZ-SS-16	KTZ-SS-210	KTZ-SS-232	KTZ-SS-238
KTZ-SS-201	KYZ-SS-229	KTZ-SS-234	KTZ-SS-239

Surface soil samples were submitted to the analytical laboratory for analysis of PCBs by USEPA Method 8082A, with USEPA Method 3540 - soxhlet extraction. Analytical results for the surface soil samples are discussed in **Section 4.2**.

3.2 Soil Borehole Sampling

The initial PDI Scope of Work was prepared in May 2022, and described the proposed activities related to further defining the lateral and vertical extent of PCB impacts at the Site. The PDI scope of work was developed targeting a Site-wide PCB delineation value of 1 milligram per kilogram (mg/kg) – for surface and subsurface), in response to USEPA requirements. Delineation and removal of surface soil with PCB concentrations greater than 1 mg/kg is consistent with the ROD. However, remediation of subsurface soil with concentrations greater than 1 mg/kg PCBs is not a requirement of the ROD. Therefore, impacted subsurface soil with PCB concentrations above 1 mg/kg and less than or equal to 10 mg/kg PCBs will be identified, documented and included in the Site Management Plan as part of the overall remedy.

The initial PDI Scope of Work was implemented in June 2022, following demolition of the incinerator building, consolidation of larger debris on-Site, and off-Site transport of approximately 1,000 tons of scrap metal (with no evidence of contamination) for recycling (completed earlier in 2022).

Parratt Wolff Inc., under subcontract with TRC, completed the soil borings. Each soil boring was advanced through unconsolidated soil with varying surface conditions (e.g., debris, vegetation, gravel fill, etc.) to termination depth utilizing direct push technology (DPT). Continuous soil cores were collected from each boring location utilizing 1.5-inch diameter by 4-foot-long PVC Macro-Cores®. Soil cores were visually classified, screened with a photo-ionization detector (PID) and inspected for evidence of impacts. PID measurements were recorded immediately following the opening of each Macro-Core®. The PID was equipped with a 10.6 eV lamp and calibrated to 100 parts per million (ppm) of isobutylene.

The PDI soil boring locations are shown on **Figures 4 through 11**, and depths of samples analyzed for PCBs are presented on **Table 2**. Soil boring logs are included in **Appendix A**. Analytical results for subsurface soil samples are discussed in **Section 4.2**. The initial PDI scope included the following:

Soil borings KTZ-SB-201 through KTZ-SB-214: these borings were advanced in and around areas
that were previously inaccessible (below waste piles and beneath the former incinerator building).
The borings were completed to a depth of 12 feet bgs and sampled continuously at 2-foot intervals.
Approximately 85 samples were submitted to the analytical laboratory for analysis of PCBs by
USEPA Method 8082A.



- Soil borings KTZ-SB-215 through KTZ-SB-219: these borings were advanced within the footprint
 of the large debris/former waste accumulation area (WAA) located southwest of the former
 incinerator building. The borings were advanced to a depth of up to 20 feet bgs or 2 feet into native
 material, whichever was encountered first, and sampled continuously at 2-foot intervals.
 Approximately 22 samples were submitted to the analytical laboratory for analysis.
- Soil borings KTZ-SB-220 through KTZ-SB-228: these borings were advanced in areas where PCBs were previously found at concentrations at or above 50 mg/kg, to further delineate (laterally), with the objective of minimizing the volume of soil that will need to be managed as TSCA-regulated material. Approximately 30 samples were submitted to the analytical laboratory for analysis of PCBs by USEPA Method 8082A.
- Soil borings KTZ-SB-229 through KTZ-SB-240: these borings were advanced around the perimeter
 of the former WAA, focusing on locations where PCBs were previously detected at concentrations
 above 1 mg/kg in surface and/or subsurface soil. Approximately 35 samples were submitted to the
 analytical laboratory for analysis of PCBs by USEPA Method 8082A.
- Soil borings KTZ-SB-C4, KTZ-SB-C5, KTZ-SB-C6, and KTZ-SB-D4: these previously investigated locations were advanced to greater depths to further delineate the vertical extent of contamination. Each boring was extended from the previous depth of 10 feet to an overall depth of 14 feet bgs, and 2 samples collected from each boring (10 12 feet bgs and 12 14 feet bgs intervals) were submitted to the analytical laboratory for analysis for PCBs by USEPA Method 8082A.
- Soil borings KTZ-SB-401 through KTZ-SB-407: these borings were advanced beyond the former WAA as well as in the eastern portion of the Site. The locations were selected in the field based on surface conditions and access. Samples were collected from 0 2 feet bgs and from 2 4 feet bgs at each location and were submitted to the analytical laboratory for analysis of PCBs by USEPA Method 8082A.
- Soil borings KTZ-SS-02, KTZ-SS-05 and KTZ-SS-16: these previously sampled locations were revisited to confirm the PCB concentrations detected during the RI in "outlying" locations. Samples were collected from 0 – 2 feet bgs at each location, and were submitted to the analytical laboratory for analysis of PCBs by USEPA Method 8082A.
- Three composite soil samples collected from selected borings (KTZ-SB-211, KTZ-SB-237, and KTZ-SB-238) were submitted for analysis for waste characterization purposes. The samples were submitted to the analytical laboratory for analysis of full waste characterization parameters.

The Supplemental PDI Scope of Work was subsequently implemented in March 2023, again utilizing Parratt Wolff Inc., under subcontract with TRC, for soil boring advancement, and included the elements listed below. The Supplemental PDI soil boring locations are illustrated, with the initial PDI sampling locations, on **Figures 4 through 11**, and depths of samples analyzed for PCBs are presented on **Table 2**. Typically, the uppermost sample interval from the Supplemental PDI soil borings was submitted for immediate analysis, while the laboratory was instructed to hold samples from deeper sample intervals pending receipt of the results of analysis of the sample collected from the uppermost interval. This strategy was deployed



to minimize costs and avoid schedule delays associated with additional mobilizations. Analytical results for subsurface soil samples are discussed in **Section 4.2**.

- Soil borings KTZ-SB-501 through KTZ-SB-504 and KTZ-SB-535: these borings were advanced immediately outside of the northeastern edge of the former WAA to complete delineation in that location. In general, the borings were completed to a depth of 6 feet bgs and samples were collected continuously from each 2-foot interval. Each sample collected from 0 2 feet bgs was immediately analyzed for PCBs by USEPA Method 8082A, while the samples collected from the deeper intervals were held pending analysis of the 0 2 feet bgs samples.
- Soil borings KTZ-SB-505 through KTZ-SB-507, KTZ-SB-536 and KTZ-SB-537: these borings were advanced near the western limits of the WAA to delineate the horizontal limits of contamination in that area. The borings were completed to a depth of 6 feet bgs and samples were collected continuously from each 2-foot interval. Each sample collected from 0 2 feet bgs was immediately analyzed for PCBs by USEPA Method 8082A, while the samples collected from the deeper intervals were held pending analysis of the 0 2 feet bgs samples.
- Soil borings KTZ-SB-508 through KTZ-SB-510: these borings were advanced surrounding the locations of KTZ-SS-16 and KTZ-SB-401, to complete the horizontal delineation of contamination around the RI and PDI locations. Each boring was completed to a depth of 6 feet bgs and samples were collected continuously from each 2-foot interval. Each sample collected from 0 2 feet bgs was immediately analyzed for PCBs by USEPA Method 8082A, while the samples collected from the deeper intervals were held pending analysis of the 0 2 feet bgs samples. Only analysis of the 0 2-foot bgs samples from these borings was required.
- Soil borings KTZ-SB-511 through KTZ-SB-517: these borings were advanced surrounding the locations of KTZ-SB-402 and KTZ-SB-403, to complete the horizontal delineation of contamination around the initial PDI locations. Each boring was completed to a depth of 6 feet bgs and samples were collected continuously from each 2-foot interval. Each sample collected from 0 2 feet bgs was immediately analyzed for PCBs by USEPA Method 8082A, while the samples collected from the deeper intervals were held pending analysis of the 0 2 feet bgs samples.
- Soil borings KTZ-SB-518 and KTZ-SB-519: these borings were advanced surrounding the location of TP-28, to complete the horizontal delineation of contamination around this RI location. The borings were completed to a depth of 6 feet bgs and samples were collected continuously from each 2-foot interval. Each sample collected from 0 2 feet bgs was immediately analyzed for PCBs by USEPA Method 8082A, while the samples collected from the deeper intervals were held pending analysis of the 0 2 feet bgs samples. Only analysis of the 0 2-foot bgs samples from these borings was required.
- Soil borings KTZ-SB-520 through KTZ-SB-525: these borings were advanced surrounding the locations of RI samples KTZ-SS-2 and KTZ-SS-5, to complete the horizontal delineation of contamination around the RI sample locations. Each boring was completed to a depth of 6 feet bgs and samples were collected continuously from each 2-foot interval. Each sample collected from 0 2 feet bgs was immediately analyzed for PCBs by USEPA Method 8082A, while the samples



collected from the deeper intervals were held pending analysis of the 0-2 feet bgs samples. Only analysis of the 0-2-foot bgs samples from these borings was required.

• Soil borings KTZ-SB-526 through KTZ-SB-533: these borings were advanced near the toe of the former WAA slope, adjacent to the southern wetland area. The purpose of these borings was to confirm the limits of contamination along the southern limits of the former WAA. Each boring was completed to a depth of 6 feet bgs and samples were collected continuously from each 2-foot interval. Each sample collected from 0 – 2 feet bgs was immediately analyzed for PCBs by USEPA Method 8082A, while the samples collected from the deeper intervals were held pending analysis of the 0 – 2 feet bgs samples. Only analysis of the 0 – 2-foot bgs samples from these borings was required.

Excess soil volume from each of three (3) PDI soil boreholes (KTZ-SB-211, KTZ-SB-237, and KTZ-SB-238) was combined to create three (3) composite samples. The soil from each boring was composited and analyzed for the purposes of identifying potential restrictions on disposal, other than PCBs, in support of the Remedial Action (RA). The composite samples were submitted to the analytical laboratory for analysis of target compound list (TCL) volatile organic compounds (VOCs) by USEPA Method 8260D, TCL semi-volatile organic compounds (SVOC) by USEPA Method 8270E, TCL pesticides and herbicides by USEPA Method 8081B and 8151A, target analyte list (TAL) metals (including cyanide) by USEPA Method 6010D, and ignitability, pH and reactive sulfide and cyanide.

Investigation derived waste (IDW) included soil from drilling activities and water from equipment decontamination. As no field evidence of gross contamination was observed in any completed soil boring, soil IDW was returned to the boreholes. Decontamination fluids were consolidated into 55-gallon steel drums and staged on-Site pending characterization and off-Site disposal.

3.3 Geotechnical Soil Borings

Two geotechnical borings were advanced within the waste accumulation area to determine physical characteristics and determine the depth of competent material for support of excavation design. Standard Penetration Testing (SPT) was performed at each geotechnical boring. Soil samples were collected continuously at 2-foot intervals from ground surface to completion depth at each boring, and visually classified by soil type.

The soil samples were shipped to TRC's Geotechnical Laboratory for analysis of the following parameters:

- Grain size distribution (2 samples, 1 per boring);
- Atterberg limits (2 samples, 1 per boring);
- Permeability (2 samples, 1 per boring); and
- Unconsolidated undrained compressive triaxial (2 samples, 1 per boring).

The geotechnical information will be included in a Limited Site Data Document to be provided to bidders for their consideration in preparing bid submissions.

3.4 Groundwater Sampling

During the August 2016 RI groundwater sampling event, a sample collected from one monitoring well contained PCB concentrations above the Technical and Operational Guidance Series (TOGS) 1.1.1, Class



GA groundwater standard. Monitoring well KTZ-MW-3 contained a total PCB concentration of 2.7 micrograms per liter (μg/L), which is above the Class GA value of 0.09 μg/L. The monitoring well was pumped dry during purging, and a sample was subsequently collected the next day, without establishing groundwater stability in the monitoring well due to the lack of groundwater. Subsequently, a sample was collected from KTZ-MW-3 in April 2017. PCBs were not detected in the sample collected during the April 2017 event. Overall, the initial sampling result was believed to be related to turbidity and suspended (filterable) solids in the sample.

Consistent with the above, the ROD, which was issued in February 2020 states that "PCBs were detected at a concentration marginally above the Class GA Value in one groundwater sample collected in August 2016 (2.7 μ g/L). This isolated marginal exceedance of the Class GA Value is not considered to be a significant concern for the Site. Data does not indicate any off-site impacts in groundwater related to this Site".

Two monitoring wells located within the former WAA, KTZ-MW-3 and KTZ-MW-4, were again sampled during the Supplemental PDI. The samples were shipped to the Eurofins/TestAmerica for analysis of TCL VOCs, TCL SVOCs (total and dissolved), PCBs (total and dissolved), TCL pesticides and herbicides (total and dissolved), and TAL metals including mercury and cyanide (total and dissolved), to determine treatment needs (if any) associated with potential dewatering of remedial excavations. Due to damaged glassware, the sample volume from KTZ-MW-3 did not include sufficient volume for analysis of total herbicides. Analysis of this sample for dissolved herbicides, however, was completed.

3.5 Land Surveying

The land surveying task was undertaken following the completion of PDI (and Supplemental PDI) activities, and included the following:

- Surveying and marking of property boundaries at each corner/turning point;
- Surveying locations and elevations (ground and top of casing) for each Site-related groundwater monitoring well (8 monitoring wells total);
- Surveying the final locations of the new soil borings, including locations and elevations; and
- Surveying of the final topography across the Waste Accumulation Area, the former incinerator building, and the debris waste piles, supplementing the Site-wide topographic survey completed during the RI.

The key deliverable for the land surveying task is a signed, sealed, and certified topographic map depicting the property boundaries, sitewide topography (1-foot contour intervals), and the points surveyed under the task. The map has been signed, sealed and certified by a Professional Land Surveyor licensed to practice in the State of New York, and is included in Appendix B. Coordinates and elevations of the survey are in the New York Plane Coordinate System [North American Datum (NAD 1983) and North American Vertical Datum (NAVD) of 1988].



3.6 Community Air Monitoring Plan

In accordance with the NYSDOH Generic Community Air Monitoring Plan (CAMP) (DER-10, Appendix 1A), air monitoring was conducted during ground intrusive activities, for both the 2022 and 2023 investigation phases. The CAMP included monitoring for fugitive (total) dust and organic vapors. Fugitive dust and organic vapor action levels provided in the NYSDOH Generic CAMP were utilized during the implementation of the work (150 micrograms per cubic meter and 5 ppm, respectively).

Two CAMP enclosures were deployed at the work site on a daily basis relative to the primary work location (i.e., drill rig): one in the upwind direction and one in the downwind direction. Both enclosures contained a Dust Trak II unit for dust monitoring and a MiniRAE 3000 PID (equipped with a 10.6 eV lamp) for organic vapor monitoring. Each enclosure was connected to a Netronix telemetry system which uploaded real-time data and automatically calculated running 15-minute average concentrations for both the Dust Trak and PID. The system was programmed to notify field personnel via short message service (SMS) text message or email in the instance of an exceedance to facilitate rapid investigation/corrective action. Additionally, one handheld PID was utilized within the work area to field screen soil samples/drill cuttings and monitor work zone breathing air vapor concentrations.

No action levels were exceeded (for fugitive dust and/or organic vapors) during the ground intrusive activities.



4.0 Soil Investigation and Delineation Results

The following subsections discuss the regulatory standards, criteria, and guidance (SCGs) used to evaluate field observations and the sample analytical results are presented.

4.1 Standards, Criteria, and Guidance

The regulatory SCGs used to evaluate the soil analytical results are outlined below:

- Surface and Subsurface Soil: 40 CFR 761.61(a)(4), Cleanup Level for High Occupancy Areas (1 mg/kg) without further restriction;
- Surface and Subsurface Soil: NYSDEC Commissioner Policy 51 (CP-51) Soil Cleanup Guidance, Part V(I): Soil Cleanup Objectives (SCOs) for PCBs (1 mg/kg in surface soils, 10 mg/kg in subsurface soils); and,
- Groundwater: NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations: Class GA Groundwater.

4.2 Surface and Subsurface Soil Sampling Results

As observed from the approximately 98 PDI soil boring locations, Site soils primarily consist of brownish sands and silt, with varying amounts of clay, gravel and cobbles. Based on these field observations, native surficial geology at the Site was found to be consistent with the Surficial Geology Map of New York – Hudson-Mohawk Sheet (1987), as well as the United States Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS), which suggest that soil at the Site and in the surrounding area is classified as Hartland-Belgrade, very fine sandy loam (HcC) and silt loam (BeB). However, when encountered within the former WAA, native soil was observed to be beneath fill material consisting of abundant debris, ash and scrap material. The fill material was identified consistently in the area around the former incinerator building, as well as throughout the debris piles extending toward the south-southwest, and was found to range from a thin layer to multiple feet thick.

Groundwater was not observed in any completed soil boring.

Samples collected from only a limited number of borings did exhibit evidence of impacts or elevated PID readings. PID readings in screened soil ranged from 0.0 ppm to 174.4 ppm (KTZ-SB-214 at a depth of 0 to 2 feet bgs).

It should be noted that six (6) surface soil samples collected during the RI contained metals concentrations above RI screening criteria (Commercial Use SCOs). Arsenic, barium, cadmium, copper, lead, and/or mercury were detected at concentrations above Commercial Use SCOs. Five (5) of the six (6) samples with metals concentrations above SCOs were collected from borings advanced within the former WAA, and were generally collocated with samples exhibiting elevated concentrations of PCBs. The one outlying sample, surface soil sample KTZ-SS-1, located near the western edge of the Site, while not within the former WAA, was similarly impacted with PCBs above the screening criteria (and is within a location that will be targeted for excavation). In subsurface soils, concentrations of metals and PCBs above the screening criteria were encountered throughout the Site, though primarily within the former WAA and



around the former incinerator building. In most instances, metals in subsurface samples were again collocated with elevated concentrations of PCBs. For this reason, metals were not separately evaluated as part of the PDI. TRC completed data validation as part of the pre-design investigation activities. Data usability summary reports (DUSRs) are included in **Appendix C**.

0 - 2 feet bgs:

Sixteen (16) surface soil samples were collected from the 0 - 2 inches bgs interval during the PDI and Supplemental PDI (Table 1) and eighty-two (82) surface/shallow subsurface (or near surface) soil samples were collected from the 0-2 feet bgs interval (**Table 2**), and submitted for laboratory analysis. Forty-four (44) of the ninety-eight (98) soil samples exhibited total PCB concentrations above the screening criteria of 1 mg/kg. Figure 4 illustrates the results of analysis of the surface and near surface samples collected during the 2022 and 2023 PDI sampling events. This figure also shows the locations of RI samples KTZ-SS-1, KTZ-SS-5 and KTZ-SS-27 to demonstrate the rationale for the PDI delineation sample locations around these points. Figure 4 also presents a compilation of investigation results from 2016 through 2023 (refer to Section 4.3 for further discussion). Although most of the locations with samples that exceeded the screening criteria are within the former WAA, several exceedances were detected in samples collected in isolated locations to the south and east of the former WAA. The highest concentration of PCBs, 268 mg/kg, was detected in the sample collected from KTZ-SB-226, located within the former WAA. The concentrations detected in samples collected in the outlying locations ranged from 1.07 mg/kg (KTZ-SS-237) up to 200 mg/kg (KTZ-SB-403, 0 - 2 inches bgs). The detection of elevated concentrations of PCBs in surface soil at location KTZ-SB-403 (targeted for remediation) is believed to be the result of tracking of contaminated soil during IRM activities (refer to Section 2.3).

2 – 4 feet bgs:

Seventy-eight (78) subsurface soil samples were collected from the 2 – 4 feet bgs interval and shipped to the analytical laboratory. The laboratory was ordered to immediately analyze forty-one (41) of the samples, and hold the remaining (37) samples pending analysis of overlying samples from the 0 – 2 feet bgs interval. Ultimately, forty-six (46) of these seventy-eight (78) samples were analyzed by the laboratory (**Table 2**). Fourteen (14) of the forty-six (46) soil samples exhibited total PCB concentrations above the screening criteria of 1 mg/kg, and only eight (8) exhibited PCB concentrations above the subsurface SCO of 10 mg/kg (CP-51). **Figure 5** illustrates the results of analysis of the samples collected during the 2022 and 2023 PDI sampling events. **Figure 5** also presents a compilation of investigation results from 2016 through 2023 (refer to **Section 4.3** for further discussion). Most of the locations with samples that exceeded the screening criteria are again within the former WAA, and serve to further delineate the volume of soil with PCBs at concentrations of 50 mg/kg or greater (to be managed as TSCA-regulated waste). The highest concentration of PCBs, 980 mg/kg, was detected in the sample collected from KTZ-SB-228, within the former WAA. Only two (2) of the eight (8) samples that exhibited concentrations greater than the CP-51 SCO for subsurface soil are at or near the limits of the former WAA (KTZ-SB-224: 250 mg/kg and KTZ-SB-505: 15.7 mg/kg).



4 – 6 feet bgs:

Sixty-six (66) subsurface soil samples were collected from the 4 – 6 feet bgs interval and shipped to the analytical laboratory. The laboratory was ordered to immediately analyze thirty-two (32) of the samples, and hold the remaining (34) samples pending analysis of overlying samples from the 2 – 4 feet bgs interval. Ultimately, thirty-three (33) of the sixty-six (66) subsurface soil samples were analyzed by the laboratory (**Table 2**). Eleven (11) of the thirty-three (33) soil samples exhibited total PCB concentrations above the screening criteria of 1 mg/kg, and only six (6) exhibited PCB concentrations above the subsurface SCO of 10 mg/kg (CP-51). **Figure 6** illustrates the results of analysis of the samples collected during the 2022 and 2023 PDI sampling events. **Figure 6** also presents a compilation of investigation results from 2016 through 2023 (refer to **Section 4.3** for further discussion). The highest concentration of PCBs, 38.3 mg/kg, was detected in the sample collected from KTZ-SB-228, within the former WAA. Each subsurface soil sample location that exceeded the screening criteria is within the former WAA. The sampling results serve to further delineate the volume of soil with PCB concentrations below 50 mg/kg.

6 - 8 feet bgs:

Twenty-six (26) subsurface soil samples were collected from the 6 – 8 feet bgs interval and shipped to the analytical laboratory. The laboratory was ordered to immediately analyze twenty-three (23) of the samples, and hold the remaining (3) samples pending analysis of overlying samples from the 4 – 6 feet bgs interval and samples collected from nearby. Ultimately, only the initial twenty-three (23) subsurface soil samples were analyzed by the laboratory (**Table 2**). Only three (3) of the twenty-three (23) soil samples exhibited total PCB concentrations above the screening criteria of 1 mg/kg, and none exhibited a PCB concentration above the subsurface SCO of 10 mg/kg (CP-51). **Figure 7** illustrates the results of the analysis of the samples collected during the 2022 and 2023 PDI sampling events. **Figure 7** also presents a compilation of investigation results from 2016 through 2023 (refer to **Section 4.3** for further discussion).

8 - 10 feet bgs:

Twenty-two (22) subsurface soil samples were collected from the 8 − 10 feet bgs interval and shipped to the analytical laboratory. The laboratory was ordered to immediately analyze nineteen (19) of the samples, and hold the remaining (3) samples pending analysis of overlying samples from the 6 − 8 feet bgs interval and samples collected from nearby. Ultimately, only the initial nineteen (19) subsurface soil samples were analyzed by the laboratory (**Table 2**). Only five (5) of the nineteen (19) soil samples exhibited total PCB concentrations above the screening criteria of 1 mg/kg, and only two (2) exhibited PCB concentrations above the subsurface SCO of 10 mg/kg (KTZ-SB-207: 19.8 mg/kg, and KTZ-SB-217: 13.6 mg/kg). Both KTZ-SB-207 and KTZ-SB-217 are within the former WAA and are intended to be used for estimating the limits of soil with concentrations of PCBs ≥50 mg/kg (to be managed as TSCA-regulated waste). **Figure 8** illustrates the results of analysis of the samples collected during the 2022 and 2023 PDI sampling events. **Figure 8** also presents a compilation of investigation results from 2016 through 2023 (refer to **Section 4.3** for further discussion).

10 – 12 feet bgs:

Twenty-six (26) subsurface soil samples were collected from the 8 - 10 feet bgs interval and shipped to the analytical laboratory. The laboratory was ordered to immediately analyze twenty-five (25) of the samples,



and hold the remaining sample pending analysis of the overlying sample from the 8 – 10 feet bgs interval and samples collected from nearby. Ultimately, all twenty-six (26) subsurface soil samples were analyzed by the laboratory (**Table 2**). Ten (10) of the twenty-six (26) soil samples exhibited total PCB concentrations above the screening criteria of 1 mg/kg, and only six (6) exhibited PCB concentrations above the subsurface SCO of 10 mg/kg. The six (6) locations are within the former WAA and are intended to be used for estimating the limits of soil with concentrations of PCBs ≥50 mg/kg (to be managed as TSCA-regulated waste). The highest concentration of PCBs, 51 mg/kg, was detected in the sample collected from KTZ-SB-215, within the former WAA. **Figure 9** illustrates the results of analysis of the samples collected during the 2022 and 2023 sampling events. **Figure 9** also presents a compilation of investigation results from 2016 through 2023 (refer to **Section 4.3** for further discussion).

12 - 14 feet bgs:

Ten (10) subsurface soil samples were collected from the 12 − 14 feet bgs interval (**Table 2**) and were submitted for laboratory analysis (none of the samples from this interval were held pending results of other samples). Only two (2) of the soil samples exhibited total PCB concentrations above the screening criteria of 1 mg/kg, and only one (1) exhibited a PCB concentration above the subsurface SCO of 10 mg/kg. PCBs were detected at a concentration of 10.1 mg/kg in the sample collected from 12 to 14 feet bgs from boring KTZ-SB-216, again within the former WAA and intended for estimating the limits of soil with concentrations of PCBs ≥50 mg/kg (to be managed as TSCA-regulated waste). **Figure 10** illustrates the results of analysis of the samples collected during the 2022 and 2023 PDI sampling events. **Figure 10** also presents a compilation of investigation results from 2016 through 2023 (refer to **Section 4.3** for further discussion).

14 - 16 feet bgs:

Six (6) subsurface soil samples were collected from the 14 − 16 feet bgs interval and shipped to the analytical laboratory. The laboratory was ordered to immediately analyze three (3) of the samples, and hold the remaining (3) samples pending analysis of overlying samples from the 12 − 14 feet bgs interval and samples collected from nearby. Ultimately, only the initial three (3) subsurface soil samples were analyzed by the laboratory (**Table 2**). Two (2) of the soil samples exhibited total PCB concentrations above the screening criteria of 1 mg/kg, and only one (1) of which exceeded the subsurface SCO of 10 mg/kg. PCBs were detected at a concentration of 31.9 mg/kg in the sample collected from 14 to 16 feet bgs from boring KTZ-SB-218, which is within the former WAA and intended to be used for estimating the limits of soil with concentrations of PCBs ≥50 mg/kg (to be managed as TSCA-regulated waste). **Figure 11** illustrates the results of analysis of the samples collected during the 2022 and 2023 PDI sampling events. **Figure 11** also presents a compilation of investigation results from 2016 through 2023 (refer to **Section 4.3** for further discussion).

Discussion of PCB Aroclors

There was no discernible trend or pattern of PCB Aroclors detected during the PDI.

The most dominant/prevalent PCB Aroclors detected in surface and subsurface soils on-Site included Aroclor 1242, Aroclor 1254, and Aroclor 1260. Aroclor 1248 was also detected in samples to a lesser extent. The highest concentration of PCBs detected on-Site between the RI and the PDI was in a sample collected from a test pit, TP-17 (from 1-foot bgs). The sample contained 6,600 mg/kg total PCBs (all Aroclor



1254). A sample from another test pit, TP-15 (sample from 2.5 feet bgs), contained 3,000 mg/kg total PCBs (all Aroclor 1242).

4.3 Compilation of Surface and Subsurface Soil Investigation Results

Investigation data aimed at delineation of PCB contaminated soil on-Site and collected during the RI (2016) and the Initial and Supplemental PDI (2022 and 2023), have been compiled into a series of figures, **Figures 4 through 11**. Each boring location where samples were collected and analyzed have been assigned a color based on total PCB concentrations (refer to legend below). Depth intervals where soil samples were not submitted for analysis are shown on the figures in purple/black.

Color/ Symbol	PCB Concentration	Indication
		Concentration at or below the SCO for surface soil (CP-
Green	PCBs ≤ 1 mg/kg	51: 1 mg/kg) and the target delineation concentration of
		1 mg/kg.
	1 mg/kg < PCBs ≤ 10 mg/kg	Concentration at or below the SCO for subsurface soil
Yellow		(CP-51: 10 mg/kg) but exceeds the target delineation
		concentration of 1 mg/kg.
Red	10 mg/kg < PCBs	Concentration exceeds the CUSCO for subsurface soil
Reu		and the target delineation concentration of 1 mg/kg.
Purple/	N/A	Sample was not recovered, collected or analyzed at the
Black	IN/A	location/interval.
		Triangle (surface soil sample) or circle (subsurface soil
ΙΟΔ	▲ N/A	sample) without cross-hatch indicates sample collected
-		during the RI (2016 or earlier)
	N/A	Triangle (surface soil sample) or circle (subsurface soil
$ \otimes \mathbf{A} $		sample) with cross-hatch indicates sample collected
-		during June/July 2022 or March 2023 (PDI).

4.4 Composite Soil Sampling Results

The composite soil samples collected from KTZ-SB-211, KTZ-SB-237 and KTZ-SB-238, were analyzed for TCL VOCs, SVOC, pesticides and herbicides, TAL metals (including cyanide), and ignitability, pH, and reactive sulfide and cyanide.

The results of analysis of the composite soil samples, to be used for the purposes of identifying potential restrictions on disposal in support of the Remedial Action (RA), are presented in **Table 3**. In order to highlight results that do not meet the criteria for re-use without restrictions, the results have also been compared to the Unrestricted Use Soil Cleanup Objectives (UUSCOs). The only analytes detected at concentrations above the UUSCOs are arsenic (14 mg/kg and 16 mg/kg, the UUSCO is 13 mg/kg), nickel (34 mg/kg and 39 mg/kg, the UUSCO is 30 mg/kg) and zinc (120 mg/kg and 130 mg/kg, the UUSCO is 109 mg/kg). It should be noted that, due to the extensive sampling and analysis for PCBs at this Site, the composite samples were not analyzed for PCBs.



4.5 Groundwater Investigation Results

As discussed in **Section 3.4**, groundwater samples from two monitoring wells located within the former WAA, KTZ-MW-3 and KTZ-MW-4, were collected during the Supplemental PDI. The samples were analyzed for TCL VOCs, TCL SVOCs, PCBs, TCL pesticides and herbicides, and TAL metals including mercury and cyanide, to determine treatment needs (if any) associated with potential dewatering of excavations during the RA. Additional sample volume was also provided to the laboratory to perform filtration for the same constituents (SVOCs, PCBs, pesticides, herbicides and metals). The groundwater analytical results are presented in **Table 4**. These results provide confirmation that groundwater has not been impacted, and that the single detection of PCBs in the sample collected from KTZ-MW-3 during the RI was related to sediment in the groundwater sample. The groundwater sampling results will be made available to prospective bidders on the remedial action contract for the purpose of estimating water treatment needs, evaluating potential for acceptance at off-Site wastewater treatment plants (as applicable), and potential permitting under the New York State Pollutant Discharge Elimination System (SPDES) program.



5.0 Estimated Extent of Contamination

TRC created a 3-dimensional model of the waste mass on-Site, illustrating the estimated limits of PCB contamination >1 mg/kg (surface SCO), ≥10 mg/kg (subsurface SCO), and ≥50 mg/kg (to be managed as TSCA-regulated waste). The model provides a means to estimate the volumes of each of these categories of soil for use in the remedial design. Under 40 CFR 761.61(a)(5), soil with PCB concentrations ≥50 mg/kg (TSCA-regulated waste) must be disposed in a TSCA-permitted disposal facility or a RCRA hazardous waste landfill; and soil with PCB concentrations <50 ppm may be disposed in a RCRA non-hazardous waste (Subtitle D) landfill.

Conceptually, the ROD allows for the reuse of excavated surficial soil with concentrations of PCBs <10 mg/kg (meeting the subsurface soil SCO for PCBs) as backfill in the deeper excavations. However, since all excavated material is expected to exhibit impacts or have significant debris content, reuse of soil at the Site is not expected. It should be noted that the modeling was performed and the volumes were estimated on the basis that no excavated soil would be reused.

The estimated extents of PCB concentrations in soil >1 mg/kg, ≥10 mg/kg, and ≥50 mg/kg, for each 2-foot elevation interval, are illustrated in Appendix D, Figures D1 through D13. Due to the varying surface topography at the Site, "surface" soil contamination areas outside the former WAA, such as at sampling locations KTZ-SS-1 and KTZ-SS-27, KTZ-SS-2, KTZ-SS-5, TP-28, KTZ-SB-402 and KTZ-SB-403, and KTZ-SS-16 and KTZ-SB-401, are illustrated on the maps corresponding to the respective ground surface elevations. These outlying areas that are not contiguous with the waste mass within the former WAA, will be managed separately via excavations to a depth of approximately 2 feet bgs, and to the horizontal limits delineated by adjacent clean soil samples.

Based on the modeling, the estimated volume of waste with concentrations of PCBs >1 mg/kg is approximately 16,000 cubic yards (CY). The estimated volumes of waste with concentrations of PCBs ≥10 mg/kg and ≥50 mg/kg are approximately 5,000 CY and 2,000 CY, respectively.

The conceptual cleanup plan includes excavation of surface soil to the surface soil SCO of 1 mg/kg. The surface soil excavation will continue until the design surface soil excavation grade is reached, to approximately 1 foot or greater below design final grades. After surface soil excavation is complete, subsurface soil with concentrations of PCBs >10 mg/kg will be excavated in 2-foot-thick lifts (generally consistent with the RI and PDI sample collection intervals). Since the majority of the mass of the former WAA will be removed, the final design restored grades are not expected to match current elevations but will be contoured to approximately match estimated historic and surrounding grades in the area.

Locations and depth intervals with soil concentrations of PCBs ≥50 mg/kg will be removed and managed separately (from each lift, including surface soils) for off-Site disposal as TSCA-regulated waste.



6.0 Federal Regulatory Considerations

The PCB contaminated soil at the Site is considered PCB remediation waste as defined under Title 40 of the Code of Federal Regulations, Part 761.3 (40 CFR 761.3) and cleanup and disposal is regulated under 40 CFR 761.61.

Under 40 CFR 761.61, cleanup of PCB remediation wastes may be performed following one of three different paths known as (a) self-implementing, (b) performance-based or (c) risk-based approaches. The self-implementing approach, which is the proposed remediation approach for this Site, includes prescribed clean up levels for soil based on future use or occupancy, and prescribed sampling and disposal requirements. Institutional controls, such as capping and recording of a deed notice may be required depending upon PCB concentrations remaining at the Site.

As such, a self-implementing plan (SIP) has been prepared for the cleanup and disposal of bulk PCB remediation waste (soil) at the Site. In addition, since the Site is being remediated in accordance with New York State rules and regulations, the SIP seeks approval of several specific variances from 40 CFR 761.61 (where federal regulations differ from State regulations, primarily), as listed below. It is important to note that the remedial design and remedial action planned for the Site will be performed under the direct supervision of NYSDEC.

- "As Found" Concentrations and Volume [40 CFR 761.61(a)(2), Subpart N]: The Department has requested USEPA approval of the completed Site characterization strategy (i.e., approximately a 40-foot sampling grid and 2-foot sample depth intervals) as presented in the RI and PDI summaries.
- Removal and Disposal of PCB Remediation Waste Based on Characterization Data [40 CFR 761.283(b), Subpart N]: The Department requests USEPA concurrence/approval for delineation of soils with concentrations of PCBs ≥50 mg/kg [regulated by the Toxic Substance Control Act (TSCA)] based on existing data sets followed by confirmation sampling. The TSCA-regulated waste will be excavated separately from each excavation lift, in advance of removal of the soil with concentrations of PCBs <50 mg/kg.
- Verification Sampling Frequency [40 CFR 761.61(a)(6), Subpart O]: The Department has
 requested concurrence/approval for conducting the cleanup verification sampling in accordance
 with NYSDEC DER-10, rather than USEPA regulations. Under DER-10, a sampling frequency of
 1 sample per 900 square feet of area and 1 sample per 30 feet of excavation sidewall would be
 used.
- Alternate Capping Approach [40 CFR 761.61(a)(7)]: The Department has determined that the capping approach in the ROD will be protective and will not present an unreasonable risk of injury to health or the environment considering that the waste mass will be removed, only soil with low PCB concentrations will remain under the clean soil cover and vegetation, documentation of no PCB-related impacts to groundwater and surface water, the limitations which will be placed on future use of the property, and the long-term monitoring and maintenance requirements that will be established in the SMP for the Site. The Department has requested USEPA concurrence/approval for this alternate capping approach (consistent with NYSDEC CP-51) for the Site.



• Timing and Certification Requirements for Environmental Easement [40 CFR 761.61(a)(8)]: The federal regulations require deed restrictions and owner certifications to be completed within 60 days of completion of the cleanup activity. To comply with the Environmental Easement requirements, since the Department expects a protracted time period to obtain signatures and certifications from the landowner/administrator of the Katzman Estate, the Department has requested an exemption from the above timing and certification requirement.

The SIP, including further discussion and justification of these variances, has been prepared under separate cover, and submitted separately to USEPA for concurrence.



7.0 Planned Remedial Design Activities

7.1 General

The RD for the Site is currently underway and is expected to be completed early in 2024. This section is intended to provide concept-level descriptions of the components of the RD that are being incorporated into the contract documents.

The following paragraphs discuss the key elements of the project to be included in the RD.

7.1.1 Site Preparation

The Contract Specifications will require that the selected Contractor undertake the following site preparation activities:

- Preparation of a site-specific Health and Safety Plan (HASP);
- Preparation of a Field Sampling Plan (FSP) and Construction Quality Assurance / Quality Control (QA/QC) Plan;
- Development of a Community Air Monitoring Plan (CAMP);
- Public and private utility location and protection;
- Site clearing and establishment of temporary facilities and staging areas; and
- Installation of sediment and erosion controls that may be necessary or part of best management practices.

Health and Safety Plan

A site-specific HASP will be prepared by the selected Contractor for the work which will comply with 29 CFR 1910.120, the Hazardous Waste Operations and Emergency Response regulations. The HASP will be prepared in accordance with the Department's Standard Specification Section 01 35 29 – Contractor's Health and Safety Plan. The primary anticipated hazards include potential worker and public exposure to construction hazards and potential chemical exposure. Worker and public safety hazards will include those typically found at a construction site using heavy equipment. Potential chemical exposures are anticipated to include inhalation of particulates containing PCBs, and direct dermal contact with soil containing PCBs. The following engineering controls will be established to minimize the potential for these exposures:

- The excavation surfaces will be maintained damp to minimize dust generation.
- A stabilized construction entrance/exit (tracking pad) will be installed to minimize sediment transport via truck tires.
- Continuous air monitoring will be conducted while work is being performed to measure airborne contaminants and to verify that control measures are adequate.
- Work zones will be established, including exclusion zones, contaminant reduction zones, and support zones, and workers will wear personal protective equipment as specified in the HASP.



Additionally, worker training and medical monitoring requirements will be specified and the HASP will be maintained at the Site during remedial construction.

Field Sampling Plan and Construction Quality Assurance / Quality Control Plan

Site-specific FSP and Construction QA/QC Plan documents will be prepared by the Contractor, and will detail the requirements for sample collection, identification, handling and shipment, sample analyses, reporting, personnel, including the Quality Assurance Officer, and data evaluation. These documents will cover the following site-specific samples to be collected by the Contractor:

- Confirmation and post-excavation soil samples.
- Imported materials samples.
- Waste characterization samples.
- Discharge water samples.
- Decontamination procedures and wipe samples to confirm decontamination of Contractor's or rental equipment.
- Management of other potential wastes generated during the Work.

The FSP will be prepared in accordance with the Department's Standard Specification Section 01 43 36 - Field Samples and Analysis. The QA/QC Plan will be prepared in accordance with the Department's Standard Specification Section 01 45 00 – Contractor Quality Control. The FSP and Construction QA/QC Plan will be reviewed by the Department as part of the pre-construction submittal process. All field sampling and analysis will be conducted in accordance with these approved plans.

Community Air Monitoring Plan (CAMP)

A site-specific CAMP will be prepared by the selected Contractor, and will identify measures and/or actions to confirm that the public living and working near the Site as well as employees or visitors to the Site are protected from exposure to Site contaminants during intrusive activities. In general, the CAMP will require the following air monitoring actions:

 Particulate monitoring will be performed using a direct sensing, real-time monitor, with telecommunications functions and data logging capabilities. The device selected will be suitable for detection of airborne particulates at levels below the CAMP particulate action level. Due to the relatively low concentrations of PCBs in soil on-Site, the NYSDEC generic CAMP action levels will be used during the RA.

Public and Private Utility Location

The remedial construction contract will require contacting the New York one-call system before starting work to mark public utilities around the Site. If deemed necessary, use of a private utility locator may also be specified to locate and mark utilities within the work area.

Traffic and work patterns will also be established to minimize the potential for contact with overhead power lines.



Site Clearing and Temporary Facilities

The remedial construction contract will specify requirements for Site preparation, including project support areas, site offices and sanitary facilities, and clearing and grubbing of vegetation within the work area. Temporary facilities and controls will also be specified and will likely include:

- Provision of temporary electric, potable water, and communications;
- Provision of temporary signage for project identification;
- Installation of a stabilized construction entrance and necessary traffic controls at the entrance;
- Installation of crushed stone surface improvements for site parking, equipment and material staging, and in other construction support areas;
- Installation of fully equipped construction office trailers for Contractor, Engineer, and Department;
- Installation of equipment and personnel decontamination and hygiene facilities; and
- Installation of instrumentation including weather monitoring systems.

Erosion and Sedimentation Controls

The remedial construction contract will require the Contractor to prepare a Stormwater Pollution Prevention Plan (SWPPP) for the remedial action. Best Management Practices (BMPs) will be described in the SWPPP and will be implemented, to mitigate the amount of erosion and sedimentation in surface water runoff. As needed, structural and non-structural BMPs will be selected/designed/planned in accordance with New York State Standards and Specifications for Erosion and Sediment Control.

The BMPs will include the installation of sediment controls, such as silt fence and/or silt socks at downgradient locations. Temporary silt fence will also be placed around excavations, as needed, and soil berms may be constructed on the upgradient sides of excavations as necessary to prevent surface water from entering open excavations. Excavations will be backfilled in a timely manner, and exposed surfaces will be restored promptly after excavation limits are approved. Erosion and sediment controls will be removed after backfilling is completed and vegetation is established in the affected area(s).

The excavation surface will be maintained damp and additional dust suppression water will be applied, as needed, to minimize dust emissions resulting from construction activities. Dust suppression will be applied when exposed ground surfaces are dry and wind or vehicular traffic result in visible dust generation. Dust suppression will also be utilized when action levels in the HASP or CAMP are exceeded. Dust suppression applications will consist of applying potable water via a mobile broadcast applicator in a controlled manner.

7.1.2 Soil Excavation

A prerequisite task related to soil excavation will be an initial pre-construction survey documenting the existing topography throughout the work area, existing physical features such as monitoring wells, existing surface improvements (i.e., limits of grass and stone areas), fencing, trees, and drainage features, limits of surface water, and other relevant surface features. The initial pre-construction survey will also include mark out of horizontal excavation limits, TSCA-regulated waste excavation limits, and provide vertical control points throughout the excavation area for depth control.



Soil excavation will be performed using standard excavation equipment (i.e., excavators), and wastes are expected to be direct loaded for off-Site shipment. In each excavation lift, TSCA-regulated waste will be removed first, employing measures to prevent the migration of TSCA-regulated waste to other excavation areas or on the Site in general. After confirmation sampling is completed (**Section 7.1.3**), excavation of soils with lower PCB concentrations from the same excavation lift will begin. Once the specified excavation horizontal limits have been reached (and the excavation lift is completed), post-excavation samples will be collected from sidewalls, and horizontal surfaces will be sampled at specified excavation bottom elevations.

The next, subsequent (lower) excavation lift will then be surveyed and marked out, including mark out of the TSCA-regulated waste removal excavation limits and of the overall excavation limits, and provision of vertical control points throughout the excavation area. Work in each lift will continue in the same manner until final elevations are reached throughout the Site.

7.1.3 Confirmation and Post-Excavation Sampling

Confirmation and post-excavation sampling will be conducted in accordance with NYSDEC DER-10. A survey will be conducted to layout a maximum 30-foot by 30-foot sampling grid within each completed excavation area or excavation lift. Confirmation samples (following removal of the TSCA-regulated waste), or post-excavation samples (following removal of additional PCB-impacted material to specified limits), will be collected from each 30-foot by 30-foot excavation grid as soon as practicable, and results will be expedited, in order to maintain the construction schedule. Post-excavation samples will be extracted using USEPA Method 3540C (Soxhlet extraction) and analyzed for PCBs by USEPA Method 8082A. Work-in-progress samples, such as confirmation samples (to confirm that the limits of the TSCA-regulated waste have been reached), may be analyzed for PCBs by USEPA Method 8082A, without Soxhlet extraction.

Confirmation and post-excavation samples will be collected by hand, using new or pre-cleaned stainless-steel spoons, and transferred directly into sample jars prepared and supplied by the analytical laboratory.

If needed, additional excavation will be performed, and subsequent confirmation or post-excavation sampling conducted until the target conditions are reached.

7.1.4 Soil Management and Disposal

TSCA-regulated waste (concentrations of PCBs ≥50 mg/kg) will be disposed of in a RCRA Section 3004 or 3006 permitted hazardous waste landfill or an approved TSCA-permitted PCB disposal facility (e.g., incinerator, chemical waste landfill, an approved alternate disposal method or coordinated approval). Based on recent similar projects, it is likely that TSCA-regulated waste will be shipped via trucks with dump trailers to Belleville, Michigan, for disposal at US Ecology Wayne Disposal facility or to Emelle, Alabama for disposal at Chemical Waste Management. In accordance with 40 CFR 761.208, a Uniform Hazardous Waste Manifest will accompany shipments of TSCA-regulated waste.

It is expected that soil with concentrations of PCBs <50 mg/kg will be disposed of at an appropriately licensed and NYSDEC permitted solid waste landfill. Based on recent similar projects, it is likely that this material will be shipped via trucks with dump trailers to Waterloo, New York, for disposal at Seneca Meadows Landfill, or to Stanley, New York, for disposal at Ontario County Landfill.



7.1.5 Backfilling and Restoration

Backfilling and restoration will be undertaken as soon as practicable following post-excavation sampling and analysis and confirmation of acceptable results. Backfill material and placement specifications will be prepared during the RD. The remedial construction documents will specify requirements for backfill testing and analysis (frequency and parameters) in accordance with NYSDEC DER-10. Backfill material will be placed in lifts and compaction will be performed in accordance with standard practice.

A demarcation layer (geotextile fabric, or similar) will be placed at a depth of at least 1 foot below the proposed final grade, above any soil remaining in place with concentrations of PCBs >1 ppm and ≤10 ppm (subsurface SCO). This layer will serve as a warning barrier to mitigate unplanned disturbance of remaining contaminated material.

Imported topsoil (also tested and analyzed in accordance with NYSDEC DER-10) will be placed to meet specified grades throughout the restored area. Final restoration will be designed to meet the surrounding areas (wooded habitat, wetland buffer area, grassed areas, etc.).

In accordance with NYSDEC regulations, the soil cover will be a minimum of one foot of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer.

7.1.6 Demobilization and Closeout

The contract documents will provide detailed requirements for Substantial Completion, Final Inspection (by Department, Engineer, and Contractor), and Final Completion. The Final Inspection will confirm that all remedial action requirements have been met, and that the Site filling, restoration, and stabilization (with vegetation) is complete. Upon Final Completion of the remedial construction, all temporary facilities and utilities will be removed, and all equipment utilized in the work as well as unused excess materials will be decontaminated if needed, and removed from the Site.

7.1.7 Final Documentation

A Final Engineering Report (FER) will be prepared and certified by a NYS registered professional engineer, in accordance with NYSDEC DER-10. The FER will document implementation of the complete remedial program and is considered a mandatory prerequisite to the issuance of a certificate of completion or closure letter. The scope of the FER will include:

- A summary of the results of IRMs and Construction Completion Reports (CCRs);
- Description of any problems encountered during construction and a description of their resolution;
- Data and information describing the final remedial action implemented in accordance with NYSDEC DER-10;
- Data and figures identifying where contamination remains at the site that needs to be addressed in the SMP;
- Descriptions of institutional controls required, including mechanisms to implement, maintain, monitor and enforce such controls:
- Identification of the site boundaries and include by reference the SMP; and



• Certification of the completed remedial program.

In addition, a site-specific Site Management Plan (SMP) will be developed in accordance with NYSDEC DER-10, since contamination will remain on-Site and future use of the Site will be restricted to commercial or industrial purposes. The SMP will provide a general description of the Site, the controls in-place as well as a description of the nature and extent of the remaining contamination at the Site. The SMP:

- Must be approved prior to the approval of the FER.
- Will include separate plans summarized as follows:
 - Institutional Control and Engineering Control (IC/EC) Plan. The IC/EC Plan will identify use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure that the prescribed institutional and/or engineering controls remain in place and effective. The IC/EC Plan requirements are described in subsection 6.2.1 of NYSDEC DER-10; this plan is required in every SMP;
 - Monitoring Plan. The Monitoring Plan is described in subsection 6.2.2 of NYSDEC DER-10. This plan is required for monitoring, inspections, and reporting of the performance and/or effectiveness of the remedy. The Monitoring Plan will include inspections and maintenance for the final cover;
 - Excavation Plan. The Excavation Plan will detail the provisions for management of future excavations in areas of remaining contamination; and
 - Operation and Maintenance Plan. The Operation and Maintenance (O&M) plan is required where the remedial program includes the operation and maintenance of a component of the remedy. NYSDEC does not expect that an O&M plan will be needed for this Site.

Implementation of the SMP will commence immediately upon the Department's approval of the plan.

7.2 Remedial Design

The Remedial Design will provide detailed specifications and drawings for the planned Remedial Action: source removal via excavation and off-site disposal of contaminated soil. Each of the below referenced Remedial Design deliverables will be prepared in accordance with NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation, Commissioner Policy (CP) 51 - Soil Cleanup Guidance, and the Self-Implementing Plan (SIP) prepared for USEPA review.

Environmental Permit Review and Application

The following permitting activities will be conducted as part of the Remedial Design:

- In preparation for the potential need to provide on-Site treatment of dewatering fluids and other construction water generated during the Remedial Action, TRC will coordinate with NYSDEC Division of Water to obtain a State Pollutant Discharge Elimination System (SPDES) Permit Equivalent.
- State Pollutant Discharge Elimination System (SPDES) Permit for Construction Activities (GP-0-20-001) Based on the likelihood that the remedial activities will impact greater than one acre and that a Construction SPDES permit will be required for construction activities, a draft Construction



Stormwater Pollution Prevention Plan (SWPPP) and electronic Notice of Intent (eNOI) will be prepared for the project. The eNOI will be submitted to the NYSDEC Division of Water (DOW) for acknowledgement.

- Section 7 (USFWS) Consultation/NYSDEC Listed Species: Threatened and Endangered Species Review and Consultation Based on a preliminary review of the Site on the NYSDEC Environmental Assessment Form (EAF) Mapper and the NYSDEC Environmental Resource Mapper (ERM), the Site is not located in the vicinity of federal or state listed species or habitats. An Official Species List from the USFWS Information for Planning and Consultation (IPaC) online system will be prepared. It is expected that no species will be identified and therefore no agency consultation will be required. The results of the online reviews will be included as part of the Remedial Design submittals, as appropriate.
- Section 106 of the National Historic Preservation Act and Section 14.09 of the New York State
 Historic Preservation Act of 1980: Cultural and Historic Resources Review and Consultation –
 Based on a preliminary review of the Site on the State Historic Preservation Office (SHPO) Cultural
 Resource Information System (CRIS) mapper, the Site is partially located within a mapped
 archaeologically sensitive area. A consultation with the SHPO will be performed by submitting the
 project for review on CRIS. It is expected that no work beyond the initial consultation will be
 required.
- Local approvals or permits by the Town of Granville are not expected to be required for the
 proposed remedial action. The project is likely classified as a "Land Disturbance Activity" per the
 Town of Granville Site Plan Review Local Law (2018); however, per Article II, Section 2.2, the
 activity proposed is not classified as a development or land use activity subject to Site Plan Review.
 Per Article II, Section 2.7, a written jurisdictional determination from the Town Planning Board
 confirming that the proposed activity does not require Site Plan Review will be sought.
- As part of the Remedial Investigation, two US Army Corps of Engineers (USACE) regulated
 wetlands were identified on-Site; however, these wetlands will not be impacted as part of remedial
 activities. The wetlands are not regulated by the NYSDEC under Article 24 of the Environmental
 Conservation Law (ECL). Therefore, permitting for impacts to wetlands and/or adjacent areas is
 not expected for the remedial action. Based on discussions with NYSDEC, design reviews are
 expected to be required by the Division of Fish and Wildlife.

Under the permitting task, TRC will also identify dewatering discharge options, including evaluating the viability for discharging to the municipal sewer system, and associated treatment system operator licensing requirements.

Climate Change Vulnerability Assessment and Green Resiliency Corrective Action Report

TRC will prepare a Climate Change Vulnerability Assessment and Green Resiliency Corrective Action Report (CCVA Report) to assess climate change vulnerabilities for the Site. The CCVA Report will provide an assessment of the potential for climate change to impact the selected remedy for the Site (i.e., engineering controls) and provide recommendations, or corrective actions, to address potential vulnerabilities arising from climate change for incorporation into the Remedial Design. The contents of the CCVA Report will include:



- Brief background overview of the Site, including the physical setting and history concerning contamination and remedial actions;
- Climate change assessment and documentation of the methodologies and sources used for development of the potential ranges for climate projections;
- Information regarding general climate change trends, and regional projections;
- Site-specific projections using proprietary GIS-based software;
- Summary and assessment of vulnerabilities that may affect the Site to determine if and how climate change might compromise the protectiveness of the remedy;
- Corrective actions, if needed, for each vulnerability identified in the assessment;
- Evaluation of the corrective actions, with respect to sustainability metrics to assess the environmental footprint of each, as appropriate; and
- A final summary of the CCVA findings, and outline of the best management practices (BMPs) recommended for inclusion in the Remedial Design.

Green and Sustainable Remediation Metrics Assessment

Using the Department's Green and Sustainable Remediation (GSR) Metrics Assessment worksheet, TRC will evaluate the Katzman Recycling Site Remediation beginning at the stage of Remedial Design completion. Actual Contractor performance with respect to the GSR metrics will be monitored continuously by TRC during construction, and evaluated and reported on a monthly or bi-monthly basis. If TRC determines that progress with respect to GSR metrics is not achieving expectations, recommendations for improvement will be provided for NYSDEC consideration. Finally, the overall performance with respect to GSR metrics will be evaluated following completion of the site work. TRC will prepare draft GSR Metrics Assessment worksheets for review by NYSDEC, and will include stage-specific SEFA output files and illustrations/graphs. Following review of the draft submittal(s), TRC will prepare final deliverables for NYSDEC records.

Design Elements

The Remedial Design will be completed and submitted for review to NYSDEC at the 30% complete (Preliminary Design), 60% complete (Intermediate Design), 95% complete (Draft Final Design), and 100% complete (Final Design, Issued for Bid) stages.

The Final Design will include NYSDEC Contract Documents, NYSDEC Standard Specifications, Supplementary Specifications prepared specifically for the work, Construction Drawings, and an Engineering Construction Cost Estimate. The final deliverable will incorporate comments from the Department on previous design stage submittals, and will be ready for use for contractor procurement by the Department. The Final Design/Issued for Bid Contract Documents will be signed and sealed by a New York State Licensed Professional Engineer.

Below is a list of typical design drawings that are expected to be included in the Final Design. Note that not all drawings listed may be applicable.

Drawing No.	Drawing Name	
G-001	Title Sheet, Site Location, and Drawing Index	



Drawing No.	Drawing Name
G-002	Legend and Notes
G-100	Existing Site Conditions – Topographical Survey
G-101	Site Preparation - Sediment and Erosion Controls
C-100	Soil Excavation Plan
C-101	Surface Soil Excavation Plan
C-102	Subsurface Soil Excavation Plan (Elevation 423.0 FT to 425.0 FT)
C-103	Subsurface Soil Excavation Plan (Elevation 421.0 FT to 423.0 FT)
C-104	Subsurface Soil Excavation Plan (Elevation 419.0 FT to 421.0 FT)
C-105	Subsurface Soil Excavation Plan (Elevation 417.0 FT to 419.0 FT)
C-106	Subsurface Soil Excavation Plan (Elevation 415.0 FT to 417.0 FT)
C-107	Subsurface Soil Excavation Plan (Elevation 413.0 FT to 415.0 FT)
C-108	Subsurface Soil Excavation Plan (Elevation 411.0 FT to 413.0 FT)
C-109	Subsurface Soil Excavation Plan (Elevation 409.0 FT to 411.0 FT)
C-110	Subsurface Soil Excavation Plan (Elevation 407.0 FT to 409.0 FT)
C-111	Subsurface Soil Excavation Plan (Elevation 405.0 FT to 407.0 FT)
C-112	Subsurface Soil Excavation Plan (Elevation 403.0 FT to 405.0 FT)
C-113	Site Restoration Plan
C-500	Details 1 of 2
C-501	Details 2 of 2

Supplementary Specifications will be prepared using a standard Construction Specifications Institute (CSI) format. The specifications will include requirements for submittals, products, execution, quality control and testing. Detailed requirements for confirmation soil sampling (following removal of TSCA-regulated waste) and post-excavation sampling (following removal of soils to the design limits) will be provided in the specifications. The Specifications will include detailed requirements for waste characterization sampling and analysis for emerging contaminants including Per- and Polyfluoroalkyl substances (PFAS) and 1,4-dioxane, as well as waste profiling and disposal facility acceptance.

Relevant historical site data and information will be attachments to the Contract Documents for use by the contractors during bidding. Additionally, TRC will prepare the Bid Sheet, Measurement for Payment section, obtain prevailing wage rate documentation, and finalize the other sections of the Contract Documents for bidding.

Soil-to-Air and CAMP Action Level Calculations

TRC will compile investigation data collected between the RI and completion of the Supplemental PDI, and, using NYSDOH calculation spreadsheets, will prepare calculations supporting community air monitoring plan dust action levels for use in the remedial action. This subtask will be completed in the two parts listed below:

 95% Upper Confidence Level Concentrations – TRC will utilize the investigation data set indicated above, separated into PCB concentrations in soil greater than or equal to 50 milligrams per kilogram (mg/kg) and PCB concentrations in soil less than 50 mg/kg. The data sets will be entered into the



ProUCL Version 5.1 – Statistical Software for Environmental Applications for Data Sets with and without Nondetect Observations (ProUCL), and the output will provide average, Site-specific, insitu PCB concentrations for each of the segregated data sets.

 Soil_to_Air Concentration Calculation – TRC will utilize the SOIL_TO_AIR spreadsheet provided by NYSDOH to calculate site-specific action levels for use in the community air monitoring program. The calculation will be run using each of the 95% UCL Site-specific, average in-situ PCB concentrations in soil indicated above, and will provide confirmation of the use of the standard CAMP dust monitoring level of 150 micrograms per cubic meter (ug/m³), or justification for the use of an alternate, lower action level, as appropriate.

7.3 Schedule

The Remedial Design is currently underway, and milestone deliverables are expected to be submitted in accordance with the following target schedule:

Task	Target Completion Date
Preliminary (30%) Design Submittal	January 2024
Intermediate (60%) Design Submittal	March 2024
Draft Final (95%) Design Submittal	May 2024
Final (100%) Design Submittal, Issued for Bid	July 2024
Publication of Advertisement for Bids (Public Bid)	July 2024
Pre-Bid Meeting	August 2024
Bid Due Date	September 2024
Contracting and Award	September - December 2024
Remedial Construction Start	After January 2025

A detailed Remedial Action Schedule will be a required submittal with the selected Remediation Contractor's initial Work Plan (to be submitted during the Contracting and Award phase).



TABLES

Table 1

New York State Department of Environmental Conservation Katzman Recycling - Granville, New York

Summary of Results of Analysis of Shallow Surface Soil Samples for PCBs (June/July 2022)

	Sample Location:	KTZ-SS-2	KTZ-SS-5	KTZ-SS-16	KTZ-SS-201	KTZ-SS-202	KTZ-SS-208	KTZ-SS-210	KTZ-SS-229	KTZ-SS-230	KTZ-SS-231	KTZ-SS-232	KTZ-SS-234	KTZ-SS-236	KTZ-SS-237	KTZ-SS-238	KTZ-SS-239
	Sample Date:	7/13/2022	7/13/2022	7/13/2022	6/16/2022	6/16/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/20/2022	6/20/2022	6/20/2022	6/15/2022
	Sample Depth:	0-6 in	0-6 in	0-6 in	0-2 in	0-2 in	0-2 in	0-2 in	0-2 in	0-2 in	0-2 in	0-2 in	0-2 in	0-2 in	0-2 in	0-2 in	0-2 in
	Screening																
Analysis	Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs																	
Aroclor-1016	NS	0.14 U	0.14 U	0.11 U	0.089 U	2 U	1.9 U	2.2 U	0.099 U	0.098 U	0.083 U	0.12 U	0.087 U	2.7 U	0.11 U	0.098 U	0.52 U
Aroclor-1221	NS	0.14 U	0.14 U	0.11 U	0.089 U	2 U	1.9 U	2.2 U	0.099 U	0.098 U	0.083 U	0.12 U	0.087 U	2.7 U	0.11 U	0.098 U	0.52 U
Aroclor-1232	NS	0.14 U	0.14 U	0.11 U	0.089 U	2 U	1.9 U	2.2 U	0.099 U	0.098 U	0.083 U	0.12 U	0.087 U	2.7 U	0.11 U	0.098 U	0.52 U
Aroclor-1242	NS	0.14 U	0.14 U	0.11 U	0.089 U	2 U	1.9 U	2.2 U	0.099 U	0.12	0.083 U	0.12 U	0.087 U	2.7 U	0.11 U	0.098 U	0.52 U
Aroclor-1248	NS	0.56	0.14 U	1.8	0.62	9.5	16	16	0.099 U	0.098 U	0.30	0.076 J	0.21 J	2.7 U	0.11 U	0.042 J	0.72
Aroclor-1254	NS	2.2	0.14 U	0.95 J	0.73	10	19	7.7	0.099 U	0.57	0.94	0.29	0.40	8.5	0.31	0.12	2.9
Aroclor-1260	NS	1.5	0.41	0.48 J	0.30	3.5	1.9 U	1.8 J	0.099 U	0.36	0.33	0.74	0.087 U	9.6	0.76	0.098 U	1.6
Aroclor-1262	NS	0.14 U	0.14 U	0.11 U	0.089 U	2 U	1.9 U	2.2 U	0.099 U	0.098 U	0.083 U	0.12 U	0.087 U	2.7 U	0.11 U	0.098 U	0.52 U
Aroclor-1268	NS	0.14 U	0.14 U	0.11 U	0.089 U	2 U	1.9 U	2.2 U	0.099 U	0.098 U	0.083 U	0.12	0.087 U	2.7 U	0.11 U	0.098 U	0.52 U
Total PCBs	1.0	4.26	0.41	3.23 J	1.65	23	35	25.5 J	0.099 U	1.05	1.57	1.226 J	0.61 J	18.1	1.07	0.162 J	5.22

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

J - Estimated value.

NS - Screening Criteria not applicable to individual Aroclors.

U - Analyte was not detected at specified quantitation limit.

BOLD Values indicate the analyte was detected.

Shading indicates results exceed screening criteria. PCBs - Polychlorinated Biphenyls.

* - Delineation Criteria of 1 mg/kg total PCBs per 40 CFR 761.61



Summary of Results of Analysis of Soil Boring Samples for PCBs (June/July 2022 and March 2023)

	Sample Location:			KTZ-S	SB-201					KTZ-S	SB-202		
	Sample Date:	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022
	Sample Depth:	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft	10-12 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft	10-12 ft
Analysis	Delineation Criteria*	mg/kg											
PCBs													
Aroclor-1016	NS	0.085 U	0.084 U	0.097 U	0.1 U	0.1 U	0.11 U	0.5 U	0.46 U	0.097 U	0.099 U	0.1 U	0.1 U
Aroclor-1221	NS	0.085 U	0.084 U	0.097 U	0.1 U	0.1 U	0.11 U	0.5 U	0.46 U	0.097 U	0.099 U	0.1 U	0.1 U
Aroclor-1232	NS	0.085 U	0.084 U	0.097 U	0.1 U	0.1 U	0.11 U	0.5 U	0.46 U	0.097 U	0.099 U	0.1 U	0.1 U
Aroclor-1242	NS	0.72 J	0.084 U	0.097 U	0.1 U	0.1 U	0.11 U	2.2 NJ	0.46 U	0.097 U	0.099 U	0.1 U	0.1 U
Aroclor-1248	NS	0.085 U	0.084 U	0.097 U	0.1 U	0.1 U	0.11 U	0.5 U	0.46 U	0.040 J	0.049 J	0.095 J	0.1 U
Aroclor-1254	NS	1.1	0.084 U	0.097 U	0.1 U	0.1 U	0.11 U	5.3	1.3 J	0.097 U	0.099 U	0.1 U	0.1 U
Aroclor-1260	NS	0.46 J	0.084 U	0.097 U	0.1 U	0.1 U	0.11 U	1.9	5.7	0.097 U	0.099 U	0.1 U	0.1 U
Aroclor-1262	NS	0.085 U	0.084 U	0.097 U	0.1 U	0.1 U	0.11 U	0.5 U	0.46 U	0.097 U	0.099 U	0.1 U	0.1 U
Aroclor-1268	NS	0.085 U	0.084 U	0.097 U	0.1 U	0.1 U	0.11 U	0.5 U	0.46 U	0.097 U	0.099 U	0.1 U	0.1 U
Total PCBs	1.0	2.28 J	0.084 U	0.097 U	0.1 U	0.1 U	0.11 U	9.4 NJ	7.0 J	0.040 J	0.049 J	0.095 J	0.1 U

	Sample Location:			KTZ-S	SB-203					KTZ-S	SB-204		
	Sample Date:	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022
	Sample Depth:	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft	10-12 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft	10-12 ft
Analysis	Delineation Criteria*	mg/kg											
PCBs													
Aroclor-1016	NS	0.11 U	0.11 U	0.096 U	0.096 U	0.1 U	0.11 U	1.8 U	0.1 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1221	NS	0.11 U	0.11 U	0.096 U	0.096 U	0.1 U	0.11 U	1.8 U	0.1 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1232	NS	0.11 U	0.11 U	0.096 U	0.096 U	0.1 U	0.11 U	1.8 U	0.1 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1242	NS	0.11 U	0.11 U	0.096 U	0.096 U	0.1 U	0.11 U	16	0.1 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1248	NS	0.81	0.11 U	0.096 U	0.096 U	0.1 U	0.11 U	1.8 U	0.1 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1254	NS	1.1	0.11 U	0.096 U	0.096 U	0.1 U	0.11 U	7.0	0.1 U	0.1 U	0.1 U	0.041 J	0.11 U
Aroclor-1260	NS	0.35	0.11 U	0.096 U	0.096 U	0.1 U	0.11 U	2.6	0.1 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1262	NS	0.11 U	0.11 U	0.096 U	0.096 U	0.1 U	0.11 U	1.8 U	0.1 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1268	NS	0.11 U	0.11 U	0.096 U	0.096 U	0.1 U	0.11 U	1.8 U	0.1 U	0.1 U	0.1 U	0.11 U	0.11 U
Total PCBs	1.0	2.26	0.11 U	0.096 U	0.096 U	0.1 U	0.11 U	25.6	0.1 U	0.1 U	0.1 U	0.041 J	0.11 U

	Sample Location:			KTZ-	SB-205						KTZ-	SB-206			
	Sample Date:	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	3/10/2023	3/10/2023
	Sample Depth:	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft	10-12 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft	10-12 ft	12-14 ft	14-16 ft**
Analysis	Delineation Criteria*	mg/kg													
PCBs															
Aroclor-1016	NS	0.5 U	0.11 U	0.1 U	0.11 U	0.11 U	0.11 U	0.99 U	4.9 U	1 U	0.1 U	0.11 U	1.3 U	0.26 U	0.25 U
Aroclor-1221	NS	0.5 U	0.11 U	0.1 U	0.11 U	0.11 U	0.11 U	0.99 U	4.9 U	1 U	0.1 U	0.11 U	1.3 U	0.26 U	0.25 U
Aroclor-1232	NS	0.5 U	0.11 U	0.1 U	0.11 U	0.11 U	0.11 U	0.99 U	4.9 U	1 U	0.1 U	0.11 U	1.3 U	0.26 U	0.25 U
Aroclor-1242	NS	0.5 U	0.11 U	0.1 U	0.11 U	0.11 U	0.11 U	2.4	10	1.0 J	0.1 U	0.11 U	1.1 J	0.26 U	0.25 U
Aroclor-1248	NS	4.3	0.11 U	0.1 U	0.11 U	0.11 U	0.11 U	0.99 U	4.9 U	1 U	0.1 U	0.11 U	1.3 U	0.26 U	0.25 U
Aroclor-1254	NS	2.9	0.11 U	0.1 U	0.11 U	0.11 U	0.11 U	4.7	22	2.3	0.1 U	0.11 U	3.1	0.26 U	0.25 U
Aroclor-1260	NS	1.7	0.11 U	0.1 U	0.11 U	0.11 U	0.11 U	19	93	9.1	0.11	0.077 J	13	0.30	0.25 U
Aroclor-1262	NS	0.5 U	0.11 U	0.1 U	0.11 U	0.11 U	0.11 U	0.99 U	4.9 U	1 U	0.1 U	0.11 U	1.3 U	NA	NA
Aroclor-1268	NS	0.5 U	0.11 U	0.1 U	0.11 U	0.11 U	0.11 U	0.99 U	4.9 U	1 U	0.1 U	0.11 U	1.3 U	NA	NA
Total PCBs	1.0	8.9	0.11 U	0.1 U	0.11 U	0.11 U	0.11 U	26.1	125	12.4 J	0.11	0.077 J	17.2 J	0.30	0.25 U

Notes

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm). J - Estimated value.

J+ - Estimated value; biased high.

NA - Sample not analyzed for the listed analyte.

NJ - Estimated value; presumptive evidence of compound.

NS - Screening Criteria not applicable to individual Aroclors.

U - Analyte was not detected at specified quantitation limit.

BOLD Values indicate the analyte was detected.

Shading indicates results exceed screening criteria.

PCBs - Polychlorinated Biphenyls.

* - Delineation Criteria of 1 mg/kg total PCBs per 40 CFR 761.61

 $\ensuremath{^{**}}$ - Indicates field duplicate sample of the sample to the left.



Summary of Results of Analysis of Soil Boring Samples for PCBs (June/July 2022 and March 2023)

	Sample Location:				KTZ-SB-207						KTZ-SB-208		
	Sample Date:	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	3/10/2023	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022
	Sample Depth:	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft	10-12 ft	12-14 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft
Analysis	Delineation Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs													
Aroclor-1016	NS	5.2 U	0.1 U	0.1 U	0.5 U	2 U	2 U	0.26 U	0.024 U	0.026 U	0.026 U	0.11 U	0.11 U
Aroclor-1221	NS	5.2 U	0.1 U	0.1 U	0.5 U	2 U	2 U	0.26 U	0.024 U	0.026 U	0.026 U	0.11 U	0.11 U
Aroclor-1232	NS	5.2 U	0.1 U	0.1 U	0.5 U	2 U	2 U	0.26 U	0.024 U	0.026 U	0.026 U	0.11 U	0.11 U
Aroclor-1242	NS	96	0.26	0.69	3.9	14	14	0.26 U	0.024 U	0.026 U	0.026 U	0.11 U	0.11 U
Aroclor-1248	NS	5.2 U	0.1 U	0.1 U	0.5 U	2 U	2 U	0.26 U	0.055	0.026 U	0.16	0.087 J	0.084 J
Aroclor-1254	NS	10	0.1 U	0.1 U	0.59	2.8	2.9	0.26 U	0.051	0.026 U	0.17	0.091 J	0.13
Aroclor-1260	NS	5.2	0.1 U	0.29	0.57	3.0	2.6	0.26 U	0.024 U	0.026 U	0.026 U	0.11 U	0.11 U
Aroclor-1262	NS	5.2 U	0.1 U	0.1 U	0.5 U	2 U	2 U	NA	0.024 U	0.026 U	0.026 U	0.11 U	0.11 U
Aroclor-1268	NS	1.4 J	0.1 U	0.1 U	0.5 U	2 U	2 U	NA	0.024 U	0.026 U	0.026 U	0.11 U	0.11 U
Total PCBs	1.0	112.6 J	0.26	0.98	5.06	19.8	19.5	0.26 U	0.106	0.026 U	0.33	0.178 J	0.214 J

	Sample Location:			K	TZ-	SB-209								K	TZ-	SB-210					
	Sample Date:	6/16/20	22	6/16/20	22	6/16/20	22	6/16/20	22	6/15/20	122	6/15/20	22	6/15/20	22	6/15/20)22	6/15/20	22	6/15/20	22
	Sample Depth:	0-2 ft		2-4 f	t	4-6 ft	t	6-8 ft		0-2 f	t	2-4 ft		4-6 ft		6-8 f	t	8-10 1	ît	10-12	ft
Analysis	Delineation Criteria*	mg/kg	g	mg/k	g	mg/kg	g	mg/kg	;	mg/k	g	mg/kg	g	mg/kg	g	mg/kg	g	mg/kg	g	mg/kg	g
PCBs																					
Aroclor-1016	NS	0.1	U	0.1	U	0.099	U	0.1	U	0.098	U	0.099	U	0.1	U	0.1	U	0.1	U	0.11	U
Aroclor-1221	NS	0.1	U	0.1	U	0.099	U	0.1	U	0.098	U	0.099	U	0.1	U	0.1	U	0.1	U	0.11	U
Aroclor-1232	NS	0.1	U	0.1	U	0.099	U	0.1	U	0.098	U	0.099	U	0.1	U	0.1	U	0.1	U	0.11	U
Aroclor-1242	NS	0.1	U	0.1	U	0.099	U	0.1	U	0.098	U	0.099	U	0.1	U	0.1	U	0.1	U	0.11	U
Aroclor-1248	NS	0.14		0.1	U	0.048	J	0.1	U	0.66	J+	0.099	U	0.1	U	0.1	U	0.21		0.11	U
Aroclor-1254	NS	0.28		0.1	U	0.050	J	0.1	U	0.32	J+	0.099	U	0.1	U	0.1	U	0.077	J	0.11	U
Aroclor-1260	NS	0.1	U	0.1	U	0.099	U	0.1	U	0.098	U	0.099	U	0.1	U	0.1	U	0.1	U	0.11	U
Aroclor-1262	NS	0.1	U	0.1	U	0.099	U	0.1	U	0.098	U	0.099	U	0.1	U	0.1	U	0.1	U	0.11	U
Aroclor-1268	NS	0.1	U	0.1	U	0.099	U	0.1	U	0.098	U	0.099	U	0.1	U	0.1	U	0.1	U	0.11	U
Total PCBs	1.0	0.42		0.1	U	0.098	J	0.1	U	0.98	J+	0.099	U	0.1	U	0.1	U	0.287	J	0.11	U

	Sample Location:							KTZ-SB-	211											K	TZ-S	SB-212					
	Sample Date:	6/20/202	2	6/20/20	22	6/20/20	22	6/20/20	22	6/20/20	22	6/20/20	22	6/20/20	22	6/16/20	22	6/16/20	22	6/16/20)22	6/16/20)22	6/16/20)22	6/16/2	022
	Sample Depth:	0-2 ft		2-4 ft	t	4-6 ft		6-8 ft		8-10 f	t	10-12	ft	N/A		0-2 ft		2-4 ft		4-6 f	t	6-8 f	t	8-10	ft	10-12	2 ft
Analysis	Delineation Criteria*	mg/kg		mg/kg	g	mg/kg	g	mg/kg	3	mg/kg	g	mg/kg	g	mg/kg	g	mg/kg	3	mg/kg	3	mg/k	g	mg/k	g	mg/k	g	mg/l	κg
PCBs																											
Aroclor-1016	NS	0.098	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.11	U	0.1	U
Aroclor-1221	NS	0.098	U	0.11	IJ	0.11	U	0.1	U	0.11	U	0.11	D	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.11	U	0.1	U
Aroclor-1232	NS	0.098	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.11	U	0.1	U
Aroclor-1242	NS	0.098	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.11	U	0.1	U
Aroclor-1248	NS	0.098	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.11	U	0.1	U
Aroclor-1254	NS	0.098	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.1	U	0.11	U	0.10		0.1	U	0.1	U	0.11	U	0.1	U
Aroclor-1260	NS	0.098	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.1	U	0.16		0.23		0.048	J	0.080	J	0.11	U	0.1	U
Aroclor-1262	NS	0.098	U	0.11	IJ	0.11	U	0.1	U	0.11	U	0.11	D	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.11	U	0.1	U
Aroclor-1268	NS	0.098	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.11	U	0.1	U
Total PCBs	1.0	0.098	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.1	U	0.16		0.33		0.048	J	0.080	J	0.11	U	0.1	U

Notes

 $\mbox{mg/kg}$ - $\mbox{milligrams}$ per kilogram (dry weight) or parts per million (ppm).

J - Estimated value. J+ - Estimated value; biased high.

NA - Sample not analyzed for the listed analyte.

NJ - Estimated value; presumptive evidence of compound.

NS - Screening Criteria not applicable to individual Aroclors.

U - Analyte was not detected at specified quantitation limit.

BOLD Values indicate the analyte was detected.

Shading indicates results exceed screening criteria.

PCBs - Polychlorinated Biphenyls.

* - Delineation Criteria of 1 mg/kg total PCBs per 40 CFR 761.61



Summary of Results of Analysis of Soil Boring Samples for PCBs (June/July 2022 and March 2023)

	Sample Location:				KTZ-SB-213						KTZ-	SB-214		1
	Sample Date:	6/20/2022	6/20/2022	6/20/2022	6/20/2022	6/20/2022	6/20/2022	3/9/2023	6/20/2022	6/20/2022	6/20/2022	6/20/2022	6/20/2022	6/20/2022
	Sample Depth:	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft	10-12 ft	12-14 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft	10-12 ft
Analysis	Delineation Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs														
Aroclor-1016	NS	0.49 U	0.098 U	0.1 U	0.1 U	0.1 U	0.12 U	0.28 U	0.091 U	0.097 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1221	NS	0.49 U	0.098 U	0.1 U	0.1 U	0.1 U	0.12 U	0.28 U	0.091 U	0.097 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1232	NS	0.49 U	0.098 U	0.1 U	0.1 U	0.1 U	0.12 U	0.28 U	0.091 U	0.097 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1242	NS	0.49 U	0.098 U	0.12	0.1 U	0.1 U	2.0	0.28 U	0.091 U	0.097 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1248	NS	7.4	0.098 U	0.1 U	0.1 U	0.1 U	0.12 U	0.28 U	0.67	0.097 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1254	NS	4.8	0.098 U	0.21	0.1 U	0.1 U	0.26	0.28 U	0.63 J	0.097 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1260	NS	4.4 U	0.098 U	0.31	0.1 U	0.1 U	0.11 J	0.28 U	1.4	0.097 U	0.1 U	0.1 U	0.038 J	0.11 U
Aroclor-1262	NS	0.49 U	0.098 U	0.1 U	0.1 U	0.1 U	0.12 U	NA	0.091 U	0.097 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1268	NS	0.49 U	0.098 U	0.1 U	0.1 U	0.1 U	0.12 U	NA	0.091 U	0.097 U	0.1 U	0.1 U	0.11 U	0.11 U
Total PCBs	1.0	12.2	0.098 U	0.64	0.1 U	0.1 U	2.37 J	0.28 U	2.70 J	0.097 U	0.1 U	0.1 U	0.038 J	0.11 U

	Sample Location:		KTZ-S	SB-215				KTZ-SB-216					KTZ-SB-217		
	Sample Date:	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/20/2022	6/20/2022	6/20/2022	6/20/2022	6/20/2022
	Sample Depth:	0-2 ft	2-4 ft	6-8 ft	10-12 ft	0-2 ft	4-6 ft	8-10 ft	12-14 ft	14-16 ft	0-2 ft	4-6 ft	8-10 ft	12-14 ft	14-16 ft
Analysis	Delineation Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg						
PCBs															
Aroclor-1016	NS	1.1 U	0.11 U	0.099 U	2.6 U	0.11 U	0.56 U	0.55 U	0.51 U	0.46 U	0.1 U	0.55 U	0.56 U	0.12 U	0.099 U
Aroclor-1221	NS	1.1 U	0.11 U	0.099 U	2.6 U	0.11 U	0.56 U	0.55 U	0.51 U	0.46 U	0.1 U	0.55 U	0.56 U	0.12 U	0.099 U
Aroclor-1232	NS	1.1 U	0.11 U	0.099 U	2.6 U	0.11 U	0.56 U	0.55 U	0.51 U	0.46 U	0.1 U	0.55 U	0.56 U	0.12 U	0.099 U
Aroclor-1242	NS	1.1 U	0.11 U	0.099 U	10	2.4	4.3	0.55 U	0.51 U	0.46 U	0.28	0.55 U	0.56 U	0.12 U	0.099 U
Aroclor-1248	NS	9.3	0.32	0.19	2.6 U	0.11 U	0.56 U	3.1	3.9	0.46 U	0.1 U	2.6	3.8	0.12 U	0.099 U
Aroclor-1254	NS	7.3	0.56	0.38	16	2.0	7.6	3.8	4.7	2.0	1.4	7.1	8.0	0.21	0.047 J
Aroclor-1260	NS	5.0	0.39	0.15	25	0.58	1.8	1.6	1.5	5.5	0.47	1.5	1.8	0.25	0.099 U
Aroclor-1262	NS	1.1 U	0.11 U	0.099 U	2.6 U	0.11 U	0.56 U	0.55 U	0.51 U	0.46 U	0.1 U	0.55 U	0.56 U	0.12 U	0.099 U
Aroclor-1268	NS	1.1 U	0.11 U	0.099 U	2.6 U	0.11 U	0.56 U	0.55 U	0.51 U	0.46 U	0.1 U	0.55 U	0.56 U	0.12 U	0.099 U
Total PCBs	1.0	21.6	1.27	0.72	51	4.98	13.7	8.5	10.1	7.5	2.15	11.2	13.6	0.46	0.047 J

	Sample Location:			KTZ-SB-218				KTZ-SB-219			KTZ-SB-220			KTZ-SB-221	
	Sample Date:	6/20/2022	6/20/2022	6/20/2022	6/20/2022	6/20/2022	6/21/2022	6/21/2022	6/21/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022
	Sample Depth:	4-6 ft	8-10 ft	10-12 ft	12-14 ft	14-16 ft	0-2 ft	2-4 ft	6-8 ft	0-2 ft	2-4 ft	4-6 ft	0-2 ft	2-4 ft	4-6 ft
Analysis	Delineation Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs															
Aroclor-1016	NS	1.1 U	0.11 U	0.54 U	0.1 U	2.1 U	48 U	0.12 U	0.5 U	1.8 U	8.4 U	0.097 U	9.4 U	0.11 U	0.098 U
Aroclor-1221	NS	1.1 U	0.11 U	0.54 U	0.1 U	2.1 U	48 U	0.12 U	0.5 U	1.8 U	8.4 U	0.097 U	9.4 U	0.11 U	0.098 U
Aroclor-1232	NS	1.1 U	0.11 U	0.54 U	0.1 U	2.1 U	48 U	0.12 U	0.5 U	1.8 U	8.4 U	0.097 U	9.4 U	0.11 U	0.098 U
Aroclor-1242	NS	3.9 J	0.77	1.3	0.1 U	1.2 J	94 J	0.32	0.60	9.8	18	0.097 U	36	0.30 J	0.12 J
Aroclor-1248	NS	1.1 U	0.11 U	0.54 U	0.1 U	2.1 U	48 U	0.12 U	0.5 U	1.8 U	8.4 U	0.097 U	9.4 U	0.11 U	0.098 U
Aroclor-1254	NS	3.5	2.4	3.8	0.35	5.7	70	1.6	2.0	15	53	0.20	21	0.14 J	0.060 J
Aroclor-1260	NS	2.7	2.2	2.6	1.3	25	48 U	1.2	4.3	2.9	12	0.083 J	7.6 J	0.16	0.098 U
Aroclor-1262	NS	1.1 U	0.11 U	0.54 U	0.1 U	2.1 U	48 U	0.12 U	0.5 U	1.8 U	8.4 U	0.097 U	9.4 U	0.11 U	0.098 U
Aroclor-1268	NS	1.1 U	0.11 U	0.54 U	0.1 U	2.1 U	48 U	0.12 U	0.5 U	1.8 U	8.4 U	0.097 U	9.4 U	0.11 U	0.098 U
Total PCBs	1.0	10.1 J	5.37	7.7	1.65	31.9 J	164 J	3.12	6.9	27.7	83	0.283 J	64.6 J	0.60 J	0.18 J

Notes

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm). J - Estimated value.

J+ - Estimated value; biased high.

NA - Sample not analyzed for the listed analyte.

NJ - Estimated value; presumptive evidence of compound.

NS - Screening Criteria not applicable to individual Aroclors.

U - Analyte was not detected at specified quantitation limit.

BOLD Values indicate the analyte was detected.

Shading indicates results exceed screening criteria.

PCBs - Polychlorinated Biphenyls.

* - Delineation Criteria of 1 mg/kg total PCBs per 40 CFR 761.61



Summary of Results of Analysis of Soil Boring Samples for PCBs (June/July 2022 and March 2023)

	Sample Location:		KTZ-SB-222		T .	KT7.5	SB-223		I	KTZ-SB-224				KTZ-SB-225		1
	Sample Date:	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022
	Sample Depth:	0-2 ft	2-4 ft	10-12 ft	0-2 ft	2-4 ft	4-6 ft	10-12 ft	2-4 ft	4-6 ft	6-8 ft	0-21/2022	2-4 ft	4-6 ft	6-8 ft	10-12 ft
Analysis	Delineation Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs																
Aroclor-1016	NS	0.48 U	0.49 U	0.98 U	0.98 U	0.099 U	0.5 U	2 U	25 U	0.11 U	0.1 U	0.42 U	2.1 U	2.2 U	0.095 U	0.1 U
Aroclor-1221	NS	0.48 U	0.49 U	0.98 U	0.98 U	0.099 U	0.5 U	2 U	25 U	0.11 U	0.1 U	0.42 U	2.1 U	2.2 U	0.095 U	0.1 U
Aroclor-1232	NS	0.48 U	0.49 U	0.98 U	0.98 U	0.099 U	0.5 U	2 U	25 U	0.11 U	0.1 U	0.42 U	2.1 U	2.2 U	0.095 U	0.1 U
Aroclor-1242	NS	0.48 U	0.49 U	0.98 U	2.7	0.17	6.0	22	25 U	0.11 U	0.1 U	2.9	19	22	0.59	2.2
Aroclor-1248	NS	4.0	7.3	2.6	0.98 U	0.099 U	0.5 U	2 U	25 U	0.27	0.042 J	0.42 U	2.1 U	2.2 U	0.095 U	0.1 U
Aroclor-1254	NS	2.3 J	2.3	5.0	3.7	0.22	0.70	3.5	220	0.46	0.088 J	1.8	4.2	4.7	0.23	0.52 J
Aroclor-1260	NS	1.5	2.4	13	2.3	0.11	0.18 J	1.0 J	30	0.11 J	0.1 U	0.46	1.0 J	1.9 J	0.077 J	0.50
Aroclor-1262	NS	0.48 U	0.49 U	0.98 U	0.98 U	0.099 U	0.5 U	2 U	25 U	0.11 U	0.1 U	0.42 U	2.1 U	2.2 U	0.095 U	0.1 U
Aroclor-1268	NS	0.48 U	0.49 U	0.98 U	0.98 U	0.099 U	0.5 U	2 U	25 U	0.11 U	0.1 U	0.42 U	2.1 U	2.2 U	0.095 U	0.1 U
Total PCBs	1.0	7.8 J	12.0	20.6	8.7	0.50	6.88 J	26.5 J	250	0.84 J	0.13 J	5.16	24.2 J	28.6 J	0.897 J	3.22 J

	Sample Location:		KTZ-S	SB-226		KTZ-SB-227		KTZ-S	SB-228		KTZ-SB-229	KTZ-SB-230			KTZ-SB-231		
	Sample Date:	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022
	Sample Depth:	0-2 ft	2-4 ft	4-6 ft	10-12 ft	2-4 ft	0-2 ft	2-4 ft	4-6 ft	10-12 ft	0-2 ft	0-2 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft	10-12 ft
Analysis	Delineation Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs																	
Aroclor-1016	NS	24 U	24 U	0.11 U	0.1 U	0.11 U	49 U	49 U	4.9 U	0.11 U	0.022 U	0.43 U	0.022 U	0.025 U	0.026 U	0.028 U	0.027 U
Aroclor-1221	NS	24 U	24 U	0.11 U	0.1 U	0.11 U	49 U	49 U	4.9 U	0.11 U	0.022 U	0.43 U	0.022 U	0.025 U	0.026 U	0.028 U	0.027 U
Aroclor-1232	NS	24 U	24 U	0.11 U	0.1 U	0.11 U	49 U	49 U	4.9 U	0.11 U	0.022 U	0.43 U	0.022 U	0.025 U	0.026 U	0.028 U	0.027 U
Aroclor-1242	NS	230	340	0.93	0.14	0.11 U	55 J	60	7.3	0.75	0.022 U	2.7	0.022 U	0.025 U	0.026 U	0.028 U	0.027 U
Aroclor-1248	NS	24 U	24 U	0.11 U	0.1 U	0.40	49 U	49 U	4.9 U	0.11 U	0.022 U	0.43 U	0.16	0.025 U	0.026 U	0.028 U	0.027 U
Aroclor-1254	NS	23 J	44	0.10 J	0.1 U	0.87	71	220	4.9 U	0.11 U	0.022 U	2.6	0.30	0.025 U	0.026 U	0.028 U	0.027 U
Aroclor-1260	NS	15 J	32	0.057 J	0.1 U	0.35	44 J	700	31	0.39	0.022 U	1.4	0.17	0.025 U	0.026 U	0.028 U	0.027 U
Aroclor-1262	NS	24 U	24 U	0.11 U	0.1 U	0.11 U	49 U	49 U	4.9 U	0.11 U	0.022 U	0.43 U	0.022 U	0.025 U	0.026 U	0.028 U	0.027 U
Aroclor-1268	NS	24 U	24 U	0.11 U	0.1 U	0.11 U	49 U	49 U	4.9 U	0.11 U	0.022 U	0.43 U	0.022 U	0.025 U	0.026 U	0.028 U	0.027 U
Total PCBs	1.0	268 J	416	1.087 J	0.14	1.62	170 J	980	38.3	1.14	0.022 U	6.7	0.63	0.025 U	0.026 U	0.028 U	0.027 U

	Sample Location:	KTZ-S	SB-232		KTZ-SB-233		KTZ-	SB-234		KTZ-	SB-235				KTZ-	SB-236		
	Sample Date:	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/16/2022	6/16/2022	6/16/2022	3/10/2023	6/20/2022	6/20/2022	6/20/2022	6/20/2022	6/20/2022	6/20/2022
	Sample Depth:	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft	0-2 ft	2-4 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft	10-12 ft
Analysis	Delineation Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs																		
Aroclor-1016	NS	0.027 U	0.025 U	0.095 U	0.026 U	0.026 U	0.022 U	0.024 U	0.44 U	0.097 U	0.1 U	0.33 U	0.11 U	0.099 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1221	NS	0.027 U	0.025 U	0.095 U	0.026 U	0.026 U	0.022 U	0.024 U	0.44 U	0.097 U	0.1 U	0.33 U	0.11 U	0.099 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1232	NS	0.027 U	0.025 U	0.095 U	0.026 U	0.026 U	0.022 U	0.024 U	0.44 U	0.097 U	0.1 U	0.33 U	0.11 U	0.099 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1242	NS	0.027 U	0.025 U	0.095 U	0.026 U	0.026 U	0.022 U	0.024 U	7.4	0.097 U	1.2	0.33 U	0.11 U	0.099 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1248	NS	0.017 J	0.025 U	0.12	0.020 J	0.026 U	0.19	0.024 U	0.44 U	0.097 U	0.1 U	0.33 U	0.079 J	0.099 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1254	NS	0.066	0.025 U	0.41	0.063	0.026 U	0.26	0.024 U	0.44 U	0.097 U	0.1 U	0.33 U	0.29	0.066 J	0.1 U	0.1 U	0.076 J	0.11 U
Aroclor-1260	NS	0.076	0.025 U	0.48	0.067	0.078	0.14	0.024 U	2.0	0.097 U	0.067 J	0.33 U	0.33	0.077 J	0.034 J	0.1 U	0.058 J	0.11 U
Aroclor-1262	NS	0.027 U	0.025 U	0.095 U	0.026 U	0.026 U	0.022 U	0.024 U	0.44 U	0.097 U	0.1 U	NA	0.11 U	0.099 U	0.1 U	0.1 U	0.11 U	0.11 U
Aroclor-1268	NS	0.027 U	0.025 U	0.095 U	0.026 U	0.026 U	0.022 U	0.024 U	0.44 U	0.097 U	0.1 U	NA	0.11 U	0.099 U	0.1 U	0.1 U	0.11 U	0.11 U
Total PCBs	1.0	0.159 J	0.025 U	1.01	0.150 J	0.078	0.59	0.024 U	9.4	0.097 U	1.267 J	0.33 U	0.699 J	0.143 J	0.034 J	0.1 U	0.134 J	0.11 U

Notes

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm). J - Estimated value.

J+ - Estimated value; biased high.

NA - Sample not analyzed for the listed analyte.

NJ - Estimated value; presumptive evidence of compound.

NS - Screening Criteria not applicable to individual Aroclors.

U - Analyte was not detected at specified quantitation limit.

BOLD Values indicate the analyte was detected.

Shading indicates results exceed screening criteria.

PCBs - Polychlorinated Biphenyls.

* - Delineation Criteria of 1 mg/kg total PCBs per 40 CFR 761.61



Summary of Results of Analysis of Soil Boring Samples for PCBs (June/July 2022 and March 2023)

	Sample Location:	KTZ-S	SB-237	KTZ-	SB-238	KTZ-SB-239			KTZ-	SB-240			KTZ-	SB-401	KTZ-	SB-402
	Sample Date:	6/20/2022	6/20/2022	6/20/2022	6/20/2022	6/15/2022	6/20/2022	6/20/2022	6/20/2022	6/20/2022	6/20/2022	6/20/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022
	Sample Depth:	0-2 ft	N/A	0-2 ft	N/A	0-2 ft	0-2 ft	2-4 ft	4-6 ft	6-8 ft	8-10 ft	10-12 ft	0-2 ft	2-4 ft	0-2 ft	2-4 ft
Analysis	Delineation Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs																
Aroclor-1016	NS	0.092 U	0.094 U	0.097 U	0.097 U	0.1 U	0.11 U	0.099 U	0.099 U	0.1 U	0.11 U	0.1 U	0.12 U	0.1 U	12 U	0.1 U
Aroclor-1221	NS	0.092 U	0.094 U	0.097 U	0.097 U	0.1 U	0.11 U	0.099 U	0.099 U	0.1 U	0.11 U	0.1 U	0.12 U	0.1 U	12 U	0.1 U
Aroclor-1232	NS	0.092 U	0.094 U	0.097 U	0.097 U	0.1 U	0.11 U	0.099 U	0.099 U	0.1 U	0.11 U	0.1 U	0.12 U	0.1 U	12 U	0.1 U
Aroclor-1242	NS	0.092 U	0.094 U	0.097 U	0.097 U	0.1 U	0.73	0.65	0.67	0.41	0.40 J+	0.1 U	0.12 U	0.1 U	12 U	0.1 U
Aroclor-1248	NS	0.092 U	0.094 U	0.097 U	0.097 U	0.1 U	0.11 U	0.099 U	0.099 U	0.1 U	0.11 U	0.1 U	0.60	0.043 J	140	0.083 J
Aroclor-1254	NS	0.092 U	0.094 U	0.097 U	0.097 U	0.068 J	1.2	1.9	1.4	1.0	0.56	0.1 U	0.50	0.064 J	41	0.066 J
Aroclor-1260	NS	0.092 U	0.094 U	0.097 U	0.097 U	0.1 U	0.78	1.0	0.87	0.65	0.19	0.1 U	0.20	0.13	11 J	0.1 U
Aroclor-1262	NS	0.092 U	0.094 U	0.097 U	0.097 U	0.1 U	0.11 U	0.099 U	0.099 U	0.1 U	0.11 U	0.1 U	0.12 U	0.1 U	12 U	0.1 U
Aroclor-1268	NS	0.092 U	0.094 U	0.097 U	0.097 U	0.1 U	0.11 U	0.099 U	0.37	0.1 U	0.11 U	0.1 U	0.12 U	0.1 U	12 U	0.1 U
Total PCBs	1.0	0.092 U	0.094 U	0.097 U	0.097 U	0.068 J	2.71	3.55	3.31	2.06	1.15 J+	0.1 U	1.3	0.237 J	192 J	0.149 J

	Sample Location:	KTZ-	SB-403	KTZ-	SB-404	KTZ-S	SB-405	KTZ-	SB-406	KTZ-	SB-407	KTZ-S	SB-501	KTZ-SB-502	KTZ-SB-503	KTZ-SB-504
	Sample Date:	6/21/2022	6/21/2022	7/13/2022	7/13/2022	7/13/2022	7/13/2022	7/13/2022	7/13/2022	7/13/2022	7/13/2022	3/8/2023	3/8/2023	3/8/2023	3/8/2023	3/8/2023
	Sample Depth:	0-2 ft	2-4 ft	0-2 ft	4-6 ft**	0-2 ft	0-2 ft	0-2 ft								
Analysis	Delineation Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg									
PCBs																
Aroclor-1016	NS	11 U	0.1 U	0.11 U	0.099 U	0.11 U	0.096 U	0.11 U	0.098 U	0.099 U	0.096 U	0.30 U	0.24 U	0.28 U	0.28 U	0.30 U
Aroclor-1221	NS	11 U	0.1 U	0.11 U	0.099 U	0.11 U	0.096 U	0.11 U	0.098 U	0.099 U	0.096 U	0.30 U	0.24 U	0.28 U	0.28 U	0.30 U
Aroclor-1232	NS	11 U	0.1 U	0.11 U	0.099 U	0.11 U	0.096 U	0.11 U	0.098 U	0.099 U	0.096 U	0.30 U	0.24 U	0.28 U	0.28 U	0.30 U
Aroclor-1242	NS	11 U	0.1 U	0.11 U	0.099 U	0.11 U	0.096 U	0.11 U	0.098 U	0.099 U	0.096 U	0.30 U	0.24 U	0.28 U	0.28 U	0.30 U
Aroclor-1248	NS	140	0.1 U	0.060 J	0.099 U	0.11 U	0.096 U	0.11 U	0.098 U	0.099 U	0.096 U	0.30 U	0.24 U	0.28 U	0.28 U	0.30 U
Aroclor-1254	NS	47	0.1 U	0.041 J	0.099 U	0.042 J	0.096 U	0.11 U	0.098 U	0.099 U	0.096 U	0.30 U	0.24 U	0.28 U	0.28 U	0.30 U
Aroclor-1260	NS	13	0.1 U	0.11 U	0.099 U	0.11 U	0.096 U	0.11 U	0.098 U	0.099 U	0.096 U	0.30 U	0.24 U	0.28 U	0.28 U	0.30 U
Aroclor-1262	NS	11 U	0.1 U	0.11 U	0.099 U	0.11 U	0.096 U	0.11 U	0.098 U	0.099 U	0.096 U	NA	NA	NA	NA	NA
Aroclor-1268	NS	11 U	0.1 U	0.11 U	0.099 U	0.11 U	0.096 U	0.11 U	0.098 U	0.099 U	0.096 U	NA	NA	NA	NA	NA
Total PCBs	1.0	200	0.1 U	0.101 J	0.099 U	0.042 J	0.096 U	0.11 U	0.098 U	0.099 U	0.096 U	0.30 U	0.24 U	0.28 U	0.28 U	0.30 U

	Sample Location:		KTZ-SB-50)5	KTZ-SB-506	KTZ-SB-507	KTZ-SB-508	KTZ-SB-509	KTZ-SB-510	KTZ-SB-511	KTZ-	SB-512	KTZ-	SB-513	KTZ-S	B-514
	Sample Date:	3/10/2023	3/10/2023	3/10/2023	3/10/2023	3/10/2023	3/8/2023	3/8/2023	3/8/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023
	Sample Depth:	0-2 ft	2-4 ft	4-6 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	2-4 ft	0-2 ft	2-4 ft **	0-2 ft	2-4 ft
Analysis	Delineation Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs																
Aroclor-1016	NS	0.20	J 0.22 U	J 0.26 U	0.32 U	0.23 U	0.26 U	0.33 U	0.24 U	0.28 U	0.29 U	0.24 U	0.30 U	0.29 U	0.27 U	0.28 U
Aroclor-1221	NS	0.20	J 0.22 U	J 0.26 U	0.32 U	0.23 U	0.26 U	0.33 U	0.24 U	0.28 U	0.29 U	0.24 U	0.30 U	0.29 U	0.27 U	0.28 U
Aroclor-1232	NS	0.20	J 0.22 U	J 0.26 U	0.32 U	0.23 U	0.26 U	0.33 U	0.24 U	0.28 U	0.29 U	0.24 U	0.30 U	0.29 U	0.27 U	0.28 U
Aroclor-1242	NS	0.20	J 8.1	0.26 U	0.32 U	0.23 U	0.26 U	0.33 U	0.24 U	0.28 U	0.29 U	0.24 U	0.30 U	0.29 U	0.27 U	0.28 U
Aroclor-1248	NS	3.1	0.22 U	J 0.26 U	0.32 U	0.14 J	0.90	0.93	0.44	0.28 U	11 J+	0.24 U	0.30 U	0.29 U	1.4	0.077 J
Aroclor-1254	NS	0.20	J 0.22 U	J 0.26 U	0.32 U	0.23 U	0.26 U	0.33 U	0.24 U	0.28 U	0.29 U	0.24 U	0.30 U	0.29 U	0.27 U	0.28 U
Aroclor-1260	NS	2.0	7.6	0.26 U	0.32 U	0.23 U	0.26 U	0.33 U	0.24 U	0.28 U	0.29 U	0.24 U	0.30 U	0.29 U	0.27 U	0.28 U
Aroclor-1262	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1268	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1.0	5.1	15.7	0.26 U	0.32 U	0.14 J	0.90	0.93	0.44	0.28 U	11 J+	0.24 U	0.30 U	0.29 U	1.4	0.077 J

Notes

 $\mbox{mg/kg}$ - $\mbox{milligrams}$ per kilogram (dry weight) or parts per million (ppm).

J - Estimated value.

J+ - Estimated value; biased high.

NA - Sample not analyzed for the listed analyte.

NJ - Estimated value; presumptive evidence of compound.

NS - Screening Criteria not applicable to individual Aroclors.

U - Analyte was not detected at specified quantitation limit.

BOLD Values indicate the analyte was detected.

Shading indicates results exceed screening criteria.

PCBs - Polychlorinated Biphenyls.

* - Delineation Criteria of 1 mg/kg total PCBs per 40 CFR 761.61



Summary of Results of Analysis of Soil Boring Samples for PCBs (June/July 2022 and March 2023)

	Sample Location:	KTZ-S	SB-515	KTZ-SB-516	KTZ-SB-517	KTZ-	SB-518	KTZ-SB-519	KTZ-SB-520	KTZ-S	SB-521	KTZ-SB-522	KTZ-SB-523	KTZ-SB-524	KTZ-SB-525	KTZ-SB-526
	Sample Date:	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/10/2023	3/10/2023	3/13/2023	3/13/2023	3/9/2023
	Sample Depth:	0-2 ft	2-4 ft	0-2 ft	0-2 ft	0-2 ft	4-6 ft**	0-2 ft	0-2 ft	0-2 ft	4-6 ft **	0-2 ft				
Analysis	Delineation Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs																
Aroclor-1016	NS	0.23 U	0.27 U	0.36 U	0.23 U	0.24 U	0.27 U	0.30 U	0.27 U	0.25 U	0.26 U	0.25 U	0.25 U	0.25 U	0.26 U	0.27 U
Aroclor-1221	NS	0.23 U	0.27 U	0.36 U	0.23 U	0.24 U	0.27 U	0.30 U	0.27 U	0.25 U	0.26 U	0.25 U	0.25 U	0.25 U	0.26 U	0.27 U
Aroclor-1232	NS	0.23 U	0.27 U	0.36 U	0.23 U	0.24 U	0.27 U	0.30 U	0.27 U	0.25 U	0.26 U	0.25 U	0.25 U	0.25 U	0.26 U	0.27 U
Aroclor-1242	NS	0.23 U	0.27 U	0.36 U	0.23 U	0.24 U	0.27 U	0.30 U	0.27 U	0.25 U	0.26 U	0.25 U	0.25 U	0.25 U	0.26 U	0.27 U
Aroclor-1248	NS	6.4	0.14 J	0.36 U	0.23 U	0.24 U	0.098 J	0.30 U	0.27 U	0.25 U	0.26 U	0.25 U	0.25 U	0.25 U	0.26 U	0.27 U
Aroclor-1254	NS	0.23 U	0.27 U	0.36 U	0.23 U	0.24 U	0.27 U	0.30 U	0.27 U	0.25 U	0.26 U	0.25 U	0.25 U	0.25 U	0.26 U	0.27 U
Aroclor-1260	NS	0.23 U	0.27 U	0.36 U	0.23 U	0.24 U	0.27 U	0.30 U	0.27 U	0.25 U	0.26 U	0.37	0.25 U	0.25 U	0.26 U	0.27 U
Aroclor-1262	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1268	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1.0	6.4	0.14 J	0.36 U	0.23 U	0.24 U	0.098 J	0.30 U	0.27 U	0.25 U	0.26 U	0.37	0.25 U	0.25 U	0.26 U	0.27 U

	Sample Location:	KTZ-SB-527	KTZ-SB-528	KTZ-SB-529	KTZ-	SB-530	KTZ-SB-531	KTZ-SB-532	KTZ-SB-533		KTZ-SB-535			KTZ-SB-536	
	Sample Date:	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/9/2023	3/8/2023	3/8/2023	3/8/2023	3/10/2023	3/10/2023	3/10/2023
	Sample Depth:	0-2 ft	0-2 ft	0-2 ft	0-2 ft	4-6 ft **	0-2 ft	0-2 ft	0-2 ft	0-2 ft	2-4 ft	4-6 ft	0-2 ft	2-4 ft	4-6 ft
Analysis	Delineation Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs															
Aroclor-1016	NS	0.29 U	0.31 U	0.35 U	0.30 U	0.26 U	0.22 U	0.31 U	0.29 U	0.25 U	0.24 U	0.24 U	0.21 U	0.26 U	0.27 U
Aroclor-1221	NS	0.29 U	0.31 U	0.35 U	0.30 U	0.26 U	0.22 U	0.31 U	0.29 U	0.25 U	0.24 U	0.24 U	0.21 U	0.26 U	0.27 U
Aroclor-1232	NS	0.29 U	0.31 U	0.35 U	0.30 U	0.26 U	0.22 U	0.31 U	0.29 U	0.25 U	0.24 U	0.24 U	0.21 U	0.26 U	0.27 U
Aroclor-1242	NS	0.29 U	0.31 U	0.35 U	0.30 U	0.26 U	0.22 U	0.31 U	0.29 U	0.25 U	0.24 U	0.24 U	0.21 U	0.26 U	0.27 U
Aroclor-1248	NS	0.29 U	0.31 U	0.35 U	0.30 U	0.26 U	0.22 U	0.31 U	0.29 U	0.25 U	0.24 U	0.24 U	0.60	0.26 U	0.27 U
Aroclor-1254	NS	0.29 U	0.31 U	0.35 U	0.30 U	0.26 U	0.22 U	0.31 U	0.29 U	0.25 U	0.24 U	0.24 U	0.21 U	0.26 U	0.27 U
Aroclor-1260	NS	0.29 U	0.31 U	0.35 U	0.21 J	0.26 U	0.22 U	0.31 U	0.29 U	0.25 U	0.24 U	0.24 U	3.5	0.26 U	0.27 U
Aroclor-1262	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1268	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1.0	0.29 U	0.31 U	0.35 U	0.21 J	0.26 U	0.22 U	0.31 U	0.29 U	0.25 U	0.24 U	0.24 U	4.1	0.26 U	0.27 U

	Sample Location:		KTZ-SB-537	7	KTZ-	SB-C4	KTZ-	SB-C5	KTZ-	-SB-C6	KTZ-	SB-D4	KTZ-SS-02	KTZ-SS-05	KTZ-SS-16	KTZ-TP-28
	Sample Date:	3/10/2023	3/10/2023	3/10/2023	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	3/13/2023	3/9/2023	3/8/2023	3/9/2023
	Sample Depth:	0-2 ft	2-4 ft	4-6 ft	10-12 ft	12-14 ft	10-12 ft	12-14 ft	10-12 ft	12-14 ft	10-12 ft	12-14 ft	0-2 ft	0-2 ft	0-2 ft	2-4 ft
Analysis	Delineation Criteria*	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs																
Aroclor-1016	NS	0.33 U	0.32 U	0.25 U	2.4 U	0.11 U	0.1 U	0.11 U	0.11 U	0.1 U	0.11 U	0.1 U	0.27 U	0.28 U	0.34 U	0.23 U
Aroclor-1221	NS	0.33 U	0.32 U	0.25 U	2.4 U	0.11 U	0.1 U	0.11 U	0.11 U	0.1 U	0.11 U	0.1 U	0.27 U	0.28 U	0.34 U	0.23 U
Aroclor-1232	NS	0.33 U	0.32 U	0.25 U	2.4 U	0.11 U	0.1 U	0.11 U	0.11 U	0.1 U	0.11 U	0.1 U	0.27 U	0.28 U	0.34 U	0.23 U
Aroclor-1242	NS	0.33 U	0.32 U	0.25 U	2.4 U	0.11 U	0.050 J	0.58	0.071 J	0.32	0.18 J+	0.71	0.27 U	0.28 U	0.34 U	0.23 U
Aroclor-1248	NS	7.7	1.2	0.21 J	6.4	0.11 U	0.1 U	0.11 U	0.11 U	0.1 U	0.11 U	0.1 U	0.27 U	0.28 U	0.99	0.23 U
Aroclor-1254	NS	0.33 U	0.32 U	0.25 U	12	0.11 U	0.042 J	0.16	0.063 J	0.28	0.11 U	0.1 U	0.27 U	0.28 U	0.34 U	0.23 U
Aroclor-1260	NS	4.8	0.79	0.25 U	17	0.038 J	0.1 U	0.13	0.066 J	0.10	0.11 U	0.1 U	0.27 U	0.28 U	0.34 U	0.23 U
Aroclor-1262	NS	NA	NA	NA	2.4 U	0.11 U	0.1 U	0.11 U	0.11 U	0.1 U	0.11 U	0.1 U	NA	NA	NA	NA
Aroclor-1268	NS	NA	NA	NA	2.4 U	0.11 U	0.1 U	0.11 U	0.11 U	0.1 U	0.11 U	0.1 U	NA	NA	NA	NA
Total PCBs	1.0	12.5	1.99	0.21 J	35.4	0.038 J	0.092 J	0.87	0.20 J	0.70	0.18 J+	0.71	0.27 U	0.28 U	0.99	0.23 U

Notes

 $\mbox{mg/kg}$ - $\mbox{milligrams}$ per kilogram (dry weight) or parts per million (ppm).

J - Estimated value.

J+ - Estimated value; biased high.

NA - Sample not analyzed for the listed analyte.

NJ - Estimated value; presumptive evidence of compound.

NS - Screening Criteria not applicable to individual Aroclors.

U - Analyte was not detected at specified quantitation limit.

BOLD Values indicate the analyte was detected.

Shading indicates results exceed screening criteria.

PCBs - Polychlorinated Biphenyls.

* - Delineation Criteria of 1 mg/kg total PCBs per 40 CFR 761.61

 $\ensuremath{^{**}}$ - Indicates field duplicate sample of the sample to the left.



		Sample Location:	KTZ-SB-21	1	KTZ-SB-23	7	KTZ-SB-23	8
		Sample Date:	6/20/2022		6/20/2022		6/20/2022	
		Unrestricted Use						
Analysis	Unit	SCO*	Composite*	*	Composite*	k	Composite*	*
VOCs	Cint	БСО	Composite		Composite		Composite	
Acetone	mg/kg	0.05	0.05	U	0.05	U	0.05	U
Benzene		0.03	0.03	U	0.03	U	0.03	U
Bromochloromethane	mg/kg	NS	0.001	U	0.001	U	0.001	U
Bromodichloromethane	mg/kg mg/kg	NS NS	0.003	U	0.003	U	0.003	U
Bromoform		NS NS	0.0023	U	0.0025	U	0.0023	U
	mg/kg	NS NS	0.025	U	0.025	U	0.025	U
Bromomethane 2-Butanone (MEK)	mg/kg	0.12	0.0125	U	0.0125	U	0.0125	U
2-Butanone (MEK) Carbon Disulfide	mg/kg	0.12 NS	0.0125	U	0.0125	U	0.0125	U
	mg/kg					_		
Carbon Tetrachloride	mg/kg	0.76	0.005	U	0.005	U	0.005	U
Chlorobenzene	mg/kg	1.1	0.0025	U	0.0025	U	0.0025	U
Chloroethane	mg/kg	NS	0.005	U	0.005	U	0.005	U
Chloroform	mg/kg	0.37	0.0025	U	0.0025	U	0.0025	U
Chloromethane	mg/kg	NS	0.0125	U	0.0125	U	0.0125	U
Chlorodibromomethane	mg/kg	NS	0.0025	U	0.0025	U	0.0025	U
1,2-Dibromo-3-Chloropropane (DBCP)	mg/kg	NS	0.025	U	0.025	U	0.025	U
1,2-Dibromoethane	mg/kg	NS	0.0025	U	0.0025	U	0.0025	U
1,2-Dichlorobenzene	mg/kg	1.1	0.005	U	0.005	U	0.005	U
1,3-Dichlorobenzene	mg/kg	2.4	0.005	U	0.005	U	0.005	U
1,4-Dichlorobenzene	mg/kg	1.8	0.005	U	0.005	U	0.005	U
Dichlorodifluoromethane (Freon 12)	mg/kg	NS	0.0025	U	0.0025	U	0.0025	U
1,1-Dichloroethane	mg/kg	0.27	0.0025	U	0.0025	U	0.0025	U
1,2-Dichloroethane	mg/kg	0.02	0.0025	U	0.0025	U	0.0025	U
1,1-Dichloroethylene	mg/kg	0.33	0.0025	U	0.0025	U	0.0025	U
cis-1,2-Dichloroethylene	mg/kg	0.25	0.0025	U	0.0025	U	0.0025	U
trans-1,2-Dichloroethylene	mg/kg	0.19	0.005	U	0.005	U	0.005	U
1,2-Dichloropropane	mg/kg	NS	0.005	U	0.005	U	0.005	U
cis-1,3-Dichloropropene	mg/kg	NS	0.0025	U	0.0025	U	0.0025	U
trans-1,3-Dichloropropene	mg/kg	NS	0.005	U	0.005	U	0.005	U
Ethyl Benzene	mg/kg	1	0.0025	U	0.0025	U	0.000782	J
2-Hexanone (MBK)	mg/kg	NS	0.025	U	0.025	U	0.025	U
Isopropylbenzene (Cumene)	mg/kg	NS	0.0025	U	0.0025	U	0.0025	U
Methyl Acetate	mg/kg	NS	0.025	U	0.025	U	0.025	U
Methyl tert-Butyl Ether (MTBE)	mg/kg	0.93	0.001	U	0.001	U	0.001	U
Methyl Cyclohexane	mg/kg	NS	0.005	U	0.005	U	0.005	U
Methylene Chloride	mg/kg	0.05	0.025	U	0.025	U	0.025	U
4-Methyl-2-pentanone (MIBK)	mg/kg	NS	0.025	U	0.025	U	0.025	U
Styrene	mg/kg	NS	0.0125	U	0.0125	U	0.0125	U
1,1,2,2-Tetrachloroethane	mg/kg	NS	0.0025	U	0.0025	U	0.0025	U
Tetrachloroethylene	mg/kg	1.3	0.0025	U	0.0025	U	0.0025	U
Toluene	mg/kg	0.7	0.00195	J	0.00208	J	0.00294	J
1,2,3-Trichlorobenzene	mg/kg	NS	0.0125	U	0.0125	U	0.0125	U
1,2,4-Trichlorobenzene	mg/kg	NS	0.0125	U	0.0125	U	0.0125	U
1,1,1-Trichloroethane	mg/kg	0.68	0.0025	U	0.0025	U	0.0025	U
1,1,2-Trichloroethane	mg/kg	NS	0.0025	U	0.0025	U	0.0025	U
Trichloroethylene	mg/kg	0.47	0.001	U	0.001	U	0.001	U
Trichlorofluoromethane (Freon 11)		NS	0.0025	U	0.0025	U	0.0025	U
Themororidoromeniane (Freon 11)	mg/kg	IND	0.0023					
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	mg/kg mg/kg	NS NS	0.0025	U	0.0025	U	0.0025	U
` /				_		_		U



		Sample Location:	KTZ-SB-21	1	KTZ-SB-23	7	KTZ-SB-23	8
	1	Sample Date:	6/20/2022		6/20/2022		6/20/2022	
nalysis	Unit	Unrestricted Use SCO*	Composite*	*	Composite*	*	Composite*	*
SVOCs		1 1	-				_	
Atrazine	mg/kg	NS	0.85	U	0.79	U	0.82	U
Benzaldehyde	mg/kg	NS	0.43	U	0.4	U	0.41	U
,1'-Biphenyl	mg/kg	NS	0.85	U	0.79	U	0.82	U
aprolactam	mg/kg	NS	0.43	U	0.4	U	0.41	U
cenaphthene	mg/kg	20	0.21	U	0.2	U	0.21	U
cenaphthylene	mg/kg	100	0.21	U	0.2	U	0.21	U
cetophenone	mg/kg	NS	0.43	U	0.4	U	0.41	U
nthracene	mg/kg	100	0.21	U	0.2	U	0.21	U
enzo(a)anthracene	mg/kg	1	0.21	U	0.2	U	0.21	U
enzo(a)pyrene	mg/kg	1	0.21	U	0.2	U	0.21	U
enzo(b)fluoranthene	mg/kg	1	0.21	U	0.2	U	0.21	U
enzo(g,h,i)perylene	mg/kg	100	0.21	U	0.2	U	0.21	U
enzo(k)fluoranthene	mg/kg	0.8 NS	0.21	U	0.2	U U	0.21 0.41	U
s(2-chloroethoxy)methane s(2-chloroethyl)ether	mg/kg mg/kg	NS NS	0.43	U	0.4	U	0.41	U
is(2-chloroisopropyl)ether	mg/kg	NS	0.43	U	0.4	U	0.41	U
is(2-ethylhexyl)phthalate	mg/kg	NS NS	0.43	U	0.4	U	0.41	U
Bromophenyl phenyl ether	mg/kg	NS	0.43	U	0.4	U	0.41	U
utylbenzylphthalate	mg/kg	NS	0.43	U	0.4	U	0.41	U
arbazole	mg/kg	NS	0.21	U	0.2	U	0.21	U
-Chloroaniline	mg/kg	NS	0.83	U	0.78	U	0.8	U
Chloro-3-methylphenol	mg/kg	NS	0.83	U	0.78	U	0.8	U
Chloronaphthalene	mg/kg	NS	0.43	U	0.4	U	0.41	U
Chlorophenol	mg/kg	NS	0.43	U	0.4	U	0.41	U
Chlorophenylphenyl ether	mg/kg	NS	0.43	U	0.4	U	0.41	U
nrysene	mg/kg	1	0.21	U	0.2	U	0.21	U
benz(a,h)anthracene	mg/kg	0.33	0.21	U	0.2	U	0.21	U
benzofuran	mg/kg	7	0.43	U	0.4	U	0.41	U
-n-butylphthalate	mg/kg	NS	0.43	U	0.4	U	0.41	U
3'-Dichlorobenzidine	mg/kg	NS	0.21	U	0.2	U	0.21	U
4-Dichlorophenol	mg/kg	NS	0.43	U	0.4	U	0.41	U
ethylphthalate	mg/kg	NS	0.43	U	0.4	U	0.41	U
4-Dimethylphenol methylphthalate	mg/kg	NS NS	0.43	U	0.4	U U	0.41	U
5-Dinitro-2-methylphenol	mg/kg mg/kg	NS NS	0.43	U	0.4	U	0.41	U
4-Dinitrophenol	mg/kg	NS	0.43	U	0.78	U	0.41	U
4-Dinitrotoluene	mg/kg	NS	0.43	U	0.4	U	0.41	U
6-Dinitrotoluene	mg/kg	NS	0.43	U	0.4	U	0.41	U
-n-octylphthalate	mg/kg	NS	0.43	U	0.4	U	0.41	U
uoranthene	mg/kg	100	0.21	U	0.2	U	0.21	U
iorene	mg/kg	30	0.21	U	0.2	U	0.21	U
exachlorobenzene	mg/kg	0.33	0.43	U	0.4	U	0.41	U
exachlorobutadiene	mg/kg	NS	0.43	U	0.4	U	0.41	U
exachlorocyclopentadiene	mg/kg	NS	0.43	U	0.4	U	0.41	U
exachloroethane	mg/kg	NS	0.43	U	0.4	U	0.41	U
deno(1,2,3-cd)pyrene	mg/kg	0.5	0.21	U	0.2	U	0.21	U
ophorone	mg/kg	NS	0.43	U	0.4	U	0.41	U
Methylnaphthalene	mg/kg	NS 0.22	0.21	U	0.2	U	0.21	U
cresol	mg/kg	0.33	0.43	U	0.4	U	0.41	U
& 4-Methylphenol (m,p-Cresol)	mg/kg	NS 12	0.43	U	0.4	U U	0.41	U
aphthalene trobenzene	mg/kg mg/kg	NS	0.21	U	0.2	U	0.21	U
Nitroaniline	mg/kg	NS NS	0.43	U	0.4	U	0.41	U
Nitroaniline Nitroaniline	mg/kg	NS NS	0.43	U	0.4	U	0.41	U
Nitroaniline	mg/kg	NS	0.43	U	0.4	U	0.41	U
Nitrophenol	mg/kg	NS	0.43	U	0.4	U	0.41	U
Vitrophenol	mg/kg	NS	0.83	U	0.78	U	0.8	U
Nitrosodiphenylamine	mg/kg	NS	0.43	U	0.4	U	0.41	U
Nitroso-di-n-propylamine	mg/kg	NS	0.43	U	0.4	U	0.41	U
entachlorophenol	mg/kg	0.8	0.43	U	0.4	U	0.41	U
nenanthrene	mg/kg	100	0.21	U	0.2	U	0.21	U
nenol	mg/kg	0.33	0.43	U	0.4	U	0.41	U
yrene	mg/kg	100	0.21	U	0.2	U	0.21	U
,2,4,5-Tetrachlorobenzene	mg/kg	NS	0.43	U	0.4	U	0.41	U
4,5-Trichlorophenol	mg/kg	NS	0.43	U	0.4	U	0.41	U
4,6-Trichlorophenol	mg/kg	NS	0.43	U	0.4	U	0.41	II

		Sample Location:	KTZ-SB-21	1	KTZ-SB-23	7	KTZ-SB-23	8
		Sample Date:	6/20/2022		6/20/2022		6/20/2022	
		Unrestricted Use						
Analysis	Unit	SCO*	Composite*	*	Composite*	*	Composite*	*
Pesticides			•		•		•	
Alachlor	mg/kg	NS	0.025	U	0.024	U	0.024	U
Aldrin	mg/kg	0.005	0.0063	U	0.0059	U	0.0061	U
alpha-BHC	mg/kg	0.02	0.0063	U	0.0059	U	0.0061	U
beta-BHC	mg/kg	0.036	0.0063	U	0.0059	U	0.0061	U
delta-BHC	mg/kg	0.04	0.0063	U	0.0059	U	0.0061	U
gamma-BHC (Lindane)	mg/kg	0.1	0.0025	U	0.0024	U	0.0024	U
Chlordane	mg/kg	NS	0.025	U	0.024	U	0.024	U
4,4-DDD	mg/kg	0.0033	0.0051	U	0.0047	U	0.0049	U
4,4-DDE	mg/kg	0.0033	0.0051	U	0.0047	U	0.0049	U
4,4-DDT	mg/kg	0.0033	0.0051	U	0.0047	U	0.0049	U
Dieldrin	mg/kg	0.005	0.0051	U	0.0047	U	0.0049	U
Endosulfan I	mg/kg	2.4	0.0063	U	0.0059	U	0.0061	U
Endosulfan II	mg/kg	2.4	0.01	U	0.0094	U	0.0097	U
Endosulfan Sulfate	mg/kg	2.4	0.01	U	0.0094	U	0.0097	U
Endrin	mg/kg	0.014	0.01	U	0.0094	U	0.0097	U
Endrin Aldehyde	mg/kg	NS	0.01	U	0.0094	U	0.0097	U
Endrin Ketone	mg/kg	NS	0.01	U	0.0094	U	0.0097	U
Heptachlor	mg/kg	0.042	0.0063	U	0.0059	U	0.0061	U
Heptachlor Epoxide	mg/kg	NS	0.0063	U	0.0059	U	0.0061	U
Hexachlorobenzene	mg/kg	0.33	0.0076	U	0.0071	U	0.0073	U
Methoxychlor	mg/kg	NS	0.063	U	0.059	U	0.061	U
Toxaphene	mg/kg	NS	0.13	U	0.12	U	0.12	U
Herbicides								
2,4-D	mg/kg	NS	0.13	U	0.12	U	0.12	U
2,4-DB	mg/kg	NS	0.13	U	0.12	U	0.12	U
2,4,5-TP (Silvex)	mg/kg	3.8	0.013	U	0.012	U	0.012	U
2,4,5-T	mg/kg	NS	0.013	U	0.012	U	0.012	U
Dalapon	mg/kg	NS	0.32	U	0.29	U	0.3	U
Dicamba	mg/kg	NS	0.013	U	0.012	U	0.012	U
Dichloroprop	mg/kg	NS	0.13	U	0.12	U	0.12	U
Dinoseb	mg/kg	NS	0.063	U	0.059	U	0.061	U
MCPA	mg/kg	NS	13	U	12	U	12	U
MCPP	mg/kg	NS	13	U	12	U	12	U
Metals, total								
Aluminum	mg/kg	NS	24,000		23,000		29,000	
Antimony	mg/kg	NS	3.6		3.5		4.4	
Arsenic	mg/kg	13	14		12		16	
Barium	mg/kg	350	100		78		130	
Beryllium	mg/kg	7.2	0.60		0.49		0.69	
Cadmium	mg/kg	2.5	0.41	U	0.21	J	0.4	U
Calcium	mg/kg	NS	1,200		410		250	
Chromium	mg/kg	NS	24		24		27	
Cobalt	mg/kg	NS	18		13		22	
Copper	mg/kg	50	33		39		41	
Iron	mg/kg	NS	45,000		40,000		52,000	
Lead	mg/kg	63	16		24		19	
Magnesium	mg/kg	NS	9,300		8,400		11,000	
Manganese	mg/kg	1,600	990		540		1,100	
Mercury	mg/kg	0.18	0.021	J	0.031		0.039	
Nickel	mg/kg	30	34		29		39	
Potassium	mg/kg	NS	1,900		1,500		2,100	
Selenium	mg/kg	3.9	4.1	U	3.7	U	4	U
Silver	mg/kg	2	0.41	U	0.37	U	0.4	U
Sodium	mg/kg	NS	93	J	76	J	110	J
Thallium	mg/kg	NS	2.1	U	1.9	U	2	U
Vanadium	mg/kg	NS	20		20		22	



		Sample Location:	KTZ-SB-21	1	KTZ-SB-23	7	KTZ-SB-23	8
		Sample Date:	6/20/2022		6/20/2022		6/20/2022	
Analysis	Unit	Unrestricted Use SCO*	Composite*	*	Composite*	*	Composite*	*
General Chemistry								
Cyanide	mg/kg	27	0.43	J	0.44	J	0.53	J
Ignitability		NS	Absent		Absent		Absent	
pH (H)	su	NS	5.5		6.0		5.2	
Reactive Cyanide	mg/kg	NS	3.9	U	4	U	4	U
Reactive Sulfide	mg/kg	NS	20	U	20	U	20	U

Notes:

 $\mbox{mg/kg}$ - $\mbox{milligrams}$ per kilogram (dry weight) or parts per million (ppm). su - Standard unit.

J - Estimated value.

NS - No standards exist for this analyte.

U - Analyte was not detected at specified quantitation limit.

Values in **bold** indicate the analyte was detected.

Shading indicates results are equal to or above the listed SCO.

VOCs - Volatile Organic Compounds.

SVOCs - Semivolatile Organic Compounds.

SCO - Soil Cleanup Objective.

* - New York State Department of Environmental Conservation,

Soil Cleanup Objectives, December 14, 2006.

 $\ensuremath{^{**}}$ - Soil composited from entire boring - refer to Table 2 for soil boring depths.



	Sample Location:		KTZ-	MW-03		KTZ-N	IW-04
	Sample Date:	3/7/2023	3/7/2023	3/7/2023	3/7/2023	3/7/2023	3/7/2023
	Class GA			Field Dup.	Field Dup.		
Analyte	Values*	Totals	Dissolved	Totals	Dissolved	Totals	Dissolved
VOCs (ug/L)							
1,1,1-Trichloroethane	5	1.0 U	NA	2.0 U	NA	10 U	NA
1,1,2,2-Tetrachloroethane	5	1.0 U	NA	2.0 U	NA	10 U	NA
1,1,2-Trichloroethane	1	1.0 U	NA	2.0 U	NA	10 U	NA
1,1,2-Trichloro- 1,2,2-trifluoroethane	5	1.0 U	NA	2.0 U	NA	10 U	NA
1,1-Dichloroethane	5	1.0 U	NA	2.0 U	NA	10 U	NA
1,1-Dichloroethene	5	1.0 U	NA	2.0 U	NA	10 U	NA
1,2,4-Trichlorobenzene	5	1.0 U	NA	2.0 U	NA	10 U	NA
1,2-Dibromo-3-chloropropane	0.04	1.0 U	NA	2.0 U	NA	10 U	NA
1,2-Dichlorobenzene	3	1.0 U	NA	2.0 U	NA	10 U	NA
1,2-Dichloroethane	0.6	1.0 U	NA	2.0 U	NA	10 U	NA
1,2-Dichloropropane	1	1.0 U	NA	2.0 U	NA	10 U	NA
1,3-Dichlorobenzene	3	1.0 U	NA	2.0 U	NA	10 U	NA
1,4-Dichlorobenzene	3	1.0 U	NA	2.0 U	NA	14	NA
2-Butanone (MEK)	50	10 U	NA	20 U	NA	100 U	NA
2-Hexanone	50	5.0 U	NA	10 U	NA	50 U	NA
4-Methyl-2-pentanone	NC	5.0 U	NA	10 U	NA	50 U	NA
Acetone	50	10 U	NA	20 U	NA	100 U	NA
Benzene	1	1.0 U	NA	2.0 U	NA	10 U	NA
Bromodichloromethane	50	1.0 U	NA	2.0 U	NA	10 U	NA
Bromoform	50	1.0 U	NA	2.0 U	NA	10 U	NA
Bromomethane	5	1.0 U	NA	2.0 U	NA	10 U	NA
Carbon disulfide	60	1.0 U	NA	2.0 U	NA	10 U	NA
Carbon tetrachloride	5	1.0 U	NA	2.0 U	NA	10 U	NA
Chlorobenzene	5	1.0 U	NA	2.0 U	NA	100	NA
Chloroethane	5	1.0 U	NA	2.0 U	NA	10 U	NA
Chloroform	7	1.0 U	NA	2.0 U	NA	10 U	NA
Chloromethane	5	1.0 U	NA	2.0 U	NA	10 U	NA
cis-1,2-Dichloroethene	5	1.0 U	NA	2.0 U	NA	10 U	NA
cis-1,3-Dichloropropene	0.4(a)	1.0 U	NA	2.0 U	NA	10 U	NA
Cyclohexane	NC	1.0 U	NA	2.0 U	NA	10 U	NA
Dibromochloromethane	50	1.0 U	NA	2.0 U	NA	10 U	NA
Dichlorodifluoromethane	5	1.0 U	NA	2.0 U	NA	10 U	NA
Ethylbenzene	5	1.0 U	NA	2.0 U	NA	10 U	NA
1,2-Dibromoethane (Ethylene dibromide)	0.0006	1.0 U	NA	2.0 U	NA	10 U	NA
Isopropylbenzene	5	1.0 U	NA	2.0 U	NA	10 U	NA
Methyl acetate	NC	2.5 U	NA	5.0 U	NA	25 U	NA
Methyl tert-butyl ether	10	1.0 U	NA	2.0 U	NA	10 U	NA
Methylcyclohexane	NC	1.0 U	NA	2.0 U	NA	10 U	NA
Methylene chloride	5	1.0 U	NA	2.0 U	NA	10 U	NA
Styrene	5	1.0 U	NA	2.0 U	NA	10 U	NA
Tetrachloroethene	5	1.0 UT	NA	2.0 U	NA	10 U	NA
Toluene	5	1.0 U	NA	2.0 U	NA	10 U	NA
trans-1,2-Dichloroethene	5	1.0 U	NA	2.0 U	NA	10 U	NA
trans-1,3-Dichloropropene	0.4(a)	1.0 U	NA	2.0 U	NA	10 U	NA
Trichloroethene	5	1.0 U	NA	2.0 U	NA	10 U	NA
Trichlorofluoromethane	5	1.0 U	NA	2.0 U	NA	10 U	NA
Vinyl chloride	2	1.0 U	NA	2.0 U	NA	10 U	NA
Xylenes, total	5	2.0 U	NA	4.0 U	NA	20 U	NA



S	ample Location:		KTZ-N	MW-03		KTZ-N	IW-04
	Sample Date:	3/7/2023	3/7/2023	3/7/2023	3/7/2023	3/7/2023	3/7/2023
	Class GA			Field Dup.	Field Dup.		
Analyte	Values*	Totals	Dissolved	Totals	Dissolved	Totals	Dissolved
SVOCs (ug/L)							
1,1'-Biphenyl	5	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Bis(2-chloroisopropyl)ether	5	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
2,4,5-Trichlorophenol	NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
2,4,6-Trichlorophenol	NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
2,4-Dichlorophenol	5	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
2,4-Dimethylphenol	50	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
2,4-Dinitrophenol	10	11 U	10 U	10 U	10 U	11 U	50 U
2,4-Dinitrotoluene	5	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
2,6-Dinitrotoluene	5	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
2-Chloronaphthalene	10	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
2-Chlorophenol	NC	5.4 U	5.0 U	5.2 U	5.0 U	0.79 J	25 U
2-Methylphenol (o-cresol)	NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
2-Methylnaphthalene	NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
2-Nitroaniline	5	11 U	10 U	10 U	10 U	11 U	50 U
2-Nitrophenol	NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
3,3'-Dichlorobenzidine	5	5.4 UT	5.0 UT	5.2 U	5.0 U	5.4 U	25 U
3-Nitroaniline	5	11 U	10 U	10 U	10 U	11 U	50 U
4,6-Dinitro-2-methylphenol	NC	11 U	10 UT	10 U	10 U	11 U	50 U
4-Bromophenyl phenyl ether	NC	5.4 U	5.0 UT	5.2 U	5.0 U	5.4 U	25 U
4-Chloro-3-methylphenol	NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
4-Chloroaniline	5	5.4 U	5.0 UT	5.2 U	5.0 U	5.4 U	25 U
4-Chlorophenylphenyl ether	NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
4-Methylphenol (p-cresol)	NC	11 U	10 U	10 U	10 U	11 U	50 U
4-Nitroaniline	5	11 U	10 U	10 U	10 U	11 U	50 U
4-Nitrophenol	NC	11 U	10 U	10 U	10 U	11 U	50 U
Acenaphthene	20	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Acenaphthylene	NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Acetophenone	NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Anthracene	50	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Atrazine	7.5	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Benzaldehyde	NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Benzo(a)anthracene	0.002	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Benzo(a)pyrene	ND	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Benzo(b)fluoranthene	0.002	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Benzo(g,h,i)perylene	NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Benzo(k)fluoranthene	0.002	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Bis(2-chloroethoxy)methane	5	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Bis(2-chloroethyl)ether	1	5.4 U	5.0 UT	5.2 U	5.0 U	5.4 U	25 U
Bis(2-ethylhexyl)phthalate	5	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Butylbenzylphthalate	50	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Caprolactam	NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Carbazole	NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Chrysene	0.002	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Dibenz(a,h)anthracene	NC 50	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Di-n-butylphthalate	50	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Di-n-octylphthalate	NC NC	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Dibenzofuran	NC 50	11 U	10 U	10 U	10 U	11 U	50 U
Diethylphthalate	50	5.4 U	5.0 U	5.2 U	5.0 U	1.9 J	25 U
Dimethylphthalate	50	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Fluoranthene	50	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Fluorene	50	5.4 U	5.0 U	5.2 U	5.0 U	0.57 J	25 U
Hexachlorobenzene	0.04	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U 5.4 U	25 U
Hexachlorobutadiene	0.5	5.4 U	5.0 U	5.2 U	5.0 U		25 U
Hexachlorocyclopentadiene	5	5.4 U	5.0 U	5.2 U	5.0 U	5.4 U	25 U
Hexachloroethane	5 0.002	5.4 U 5.4 U	5.0 U 5.0 U	5.2 U 5.2 U	5.0 U 5.0 U	5.4 U 5.4 U	25 U 25 U
Indeno(1,2,3-cd)pyrene Isophorone	50	5.4 U 5.4 U	5.0 U 5.0 U	5.2 U 5.2 U	5.0 U	5.4 U 5.4 U	25 U
					5.0 U		
N-Nitroso-di-n-propylamine	NC	5.4 U	5.0 U	5.2 U	3.0 U	5.4 U	25 U



	Sample Location:]	KTZ-N	MW-03				I	KTZ-I	MW-04	
	Sample Date:	3/7/202	23	3/7/202		3/7/202	23	3/7/202	23	3/7/202		3/7/202	23
	Class GA					Field Du	ın.	Field Du	ın.				
Analyte	Values*	Totals	s	Dissolv	ed	Totals		Dissolve		Totals	3	Dissolv	/ed
SVOCs (ug/L) continued													
N-Nitrosodiphenylamine	50	5.4	U	5.0	U	5.2	U	5.0	U	5.4	U	25	U
Naphthalene	10	5.4	U	5.0	U	5.2	U	5.0	U	2.1	J	25	
Nitrobenzene	0.4	5.4	U	5.0	U	5.2	U	5.0	U	5.4	U	25	
Pentachlorophenol	1	11	U	10	U	10	U	10	U	11	U	50	U
Phenanthrene	50	5.4	U	5.0	U	5.2	U	5.0	U	5.4	U	25	U
Phenol	1	5.4	U	5.0	U	5.2	U	5.0	U	5.4	U	25	U
Pyrene	50	5.4	U	5.0	U	5.2	U	5.0	U	5.4	U	25	_
PCBs (ug/L)							-						
Aroclor-1016	NC	0.54	U	0.50	U	0.52	U	0.50	U	0.57	U	0.50	U
Aroclor-1221	NC	0.54	U	0.50	U	0.52	U	0.50	U	0.57	U	0.50	
Aroclor-1232	NC	0.54	U	0.50	U	0.52	U	0.50	U	0.57	U	0.50	
Aroclor-1242	NC	0.54	U	0.50	U	0.52	U	0.50	U	0.57	U	0.50	
Aroclor-1248	NC	0.54	U	0.50	U	0.52	U	0.50	U	0.57	U	0.50	
Aroclor-1254	NC	0.54	U	0.50	U	0.52	U	0.50	U	0.57	U	0.50	
Aroclor-1260	NC	0.54	U	0.50	U	0.52	U	0.50	U	0.57	U	0.50	
Total PCBs	0.09	0.54	U	0.50	U	0.52	U	0.50	U	0.57	U	0.50	
Pesticides (ug/L)													
4,4'-DDD	0.3	0.050	U	0.020	J	0.054	U	0.014	J	0.035	J	0.045	J
4.4'-DDE	0.2	0.050	U	0.050	U	0.054	U	0.050	U	0.054	U	0.050	
4,4'-DDT	0.2	0.024	J	0.026	J	0.042	J	0.023	J	0.16		0.16	
Aldrin	ND	0.050	U	0.050	U	0.054	U	0.050	U	0.023	J	0.029	
alpha-BHC	0.01	0.050	U	0.050	U	0.054	U	0.050	U	0.054	U	0.050	
alpha-Chlordane	0.05	0.050	U	0.050	U	0.054	U	0.050	U	0.054	U	0.050	
beta-BHC	0.04	0.050	U	0.050	U	0.054	U	0.050	U	0.12	Ť	0.050	U
delta-BHC	0.04	0.050	U	0.011	BJ	0.013	BJ	0.012	BJ	0.054	U	0.024	BJ
Dieldrin	0.004	0.050	U	0.050	U	0.054	U	0.050	U	0.054	U	0.050	
Endosulfan I	NC	0.050	U	0.050	U	0.054	U	0.050	U	0.054	U	0.030	
Endosulfan II	NC	0.050	U	0.050	U	0.026	J	0.048	J	0.054	U	0.031	J
Endosulfan sulfate	NC	0.050	U	0.018	J	0.054	U	0.050	U	0.054	U	0.050	U
Endrin	ND	0.050	U	0.050	U	0.054	U	0.050	U	0.049	J	0.051	
Endrin aldehyde	5	0.050	U	0.048	J	0.041	J	0.050	U	0.18		0.16	
Endrin ketone	5	0.035	J	0.049	J	0.054	U	0.050	U	0.061		0.050	U
gamma-BHC (Lindane)	0.05	0.013	J	0.014	J	0.017	J	0.050	U	0.054	U	0.016	J
trans-Chlordane	0.05	0.050	U	0.050	U	0.054	U	0.050	U	0.054	U	0.050	U
Heptachlor	0.04	0.050	U	0.050	U	0.054	U	0.050	U	0.054	U	0.050	U
Heptachlor epoxide	0.03	0.050	U	0.050	U	0.054	U	0.050	U	0.022	J	0.0082	J
Methoxychlor	35	0.066		0.072	T	0.080		0.046	J	0.026	J	0.13	
Toxaphene	0.06	0.50	U	0.50	U	0.54	U	0.50	U	0.54	U	0.50	U
Herbicides (ug/L)													
2,4,5-T	35	NA		0.50	U	NA		0.48	U	2.4	U	2.6	U
2,4-D	50	NA		0.50	U	NA		0.48	U	2.4	U	2.6	_
2,4,5-TP (Silvex)	0.26	NA		0.50	U	NA		0.48	U	2.4	U	2.6	_
Dichloroprop	NC	NA		0.50	U	NA		0.48	U	2.4	U	2.6	U
Dinoseb	NC	NA		0.50	U	NA		0.48	U	2.4	U	2.6	
Pentachlorophenol	1	NA		0.50	UT	NA		0.48	U	2.4	U	2.6	U
Picloram	NC	NA		0.50	U	NA		0.48	U	2.4	U	2.6	U



Table 4

New York State Department of Environmental Conservation Katzman Recycling - Granville, New York

Summary of Results of Analysis of Groundwater Samples (March 2023)

	Sample Location:		KTZ-MW-03									KTZ-MW-04				
	Sample Date:	3/7/202	23	3/7/202	.3	3/7/202	23	3/7/202	23	3/7/202	3	3/7/202	23			
	Class GA					Field Du	ıp.	Field Du	ıp.							
Analyte	Values*	Total	s	Dissolv	ed	Totals	Dissolv		ed	Totals		Dissolv	ed			
Metals (ug/L)																
Aluminum	NC	200	U	200	U	200	U	200	U	250		200	U			
Antimony	3	20	U	20	U	20	U	20	U	20	U	20	U			
Arsenic	25	15	U	15	U	15	U	15	U	15	U	15	U			
Barium	1,000	130	T	130		140		130		18		17				
Beryllium	3	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U			
Cadmium	5	2.0		1.8	J	1.1	J	0.74	J	2.0	U	2.0	U			
Calcium	NC	27,000	T	25,700		27,200		26,000		23,500		21,900				
Chromium	50	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U			
Cobalt	NC	4.0	U	4.0	U	4.0	U	4.0	U	14		14				
Copper	200	2.8	J	2.5	J	2.0	J	3.2	J	2.4	J	10	U			
Iron	300	120		50	U	73		50	U	8,900		7,600				
Lead	25	10	U	10	U	10	U	10	U	10	U	10	U			
Magnesium	35,000	9,200		9,100		9,100		9,100		9,900		9,600				
Manganese	300	850	T	660		690		380		10,400		10,200				
Mercury	0.7	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U			
Nickel	100	2.4	J	2.9	J	10	U	2.2	J	7.5	J	7.5	J			
Potassium	NC	2,700		2,700	В	2,800		2,600	В	1,200		1,100	В			
Selenium	10	25	U	25	U	25	U	25	U	25	U	25	U			
Silver	50	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U			
Sodium	20,000	2,600		2,300		11,800		2,400		6,900		6,900				
Thallium	0.5	20	U	20	U	20	U	20	U	20	U	20	U			
Vanadium	NC	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U			
Zinc	2,000	250	BT	230		180	В	150		4.9	BJ	7.5	J			
General Chemistry (ug/L)																
Cyanide	200	10	U	10	U	10	U	10	U	10	U	10	U			

Notes:

ug/L - micrograms per liter.

B - Analyte detected in associated method blank.

J - Estimated value.

NA - Not Analyzed.

NC - No NYSDEC standard exists for this analyte.

ND - Not detected.

T - Indicates that a quality control parameter doesn't meet the control limit requirements.

U - Analyte was not detected at specified quantitation limit.

Values in bold indicate the analyte was detected.

Values shown in **bold** and shaded type exceed the Class GA Value.

VOCs - Volatile Organic Compounds.

SVOCs - Semivolatile Organic Compounds.

PCBs - Polychlorinated Biphenyls.

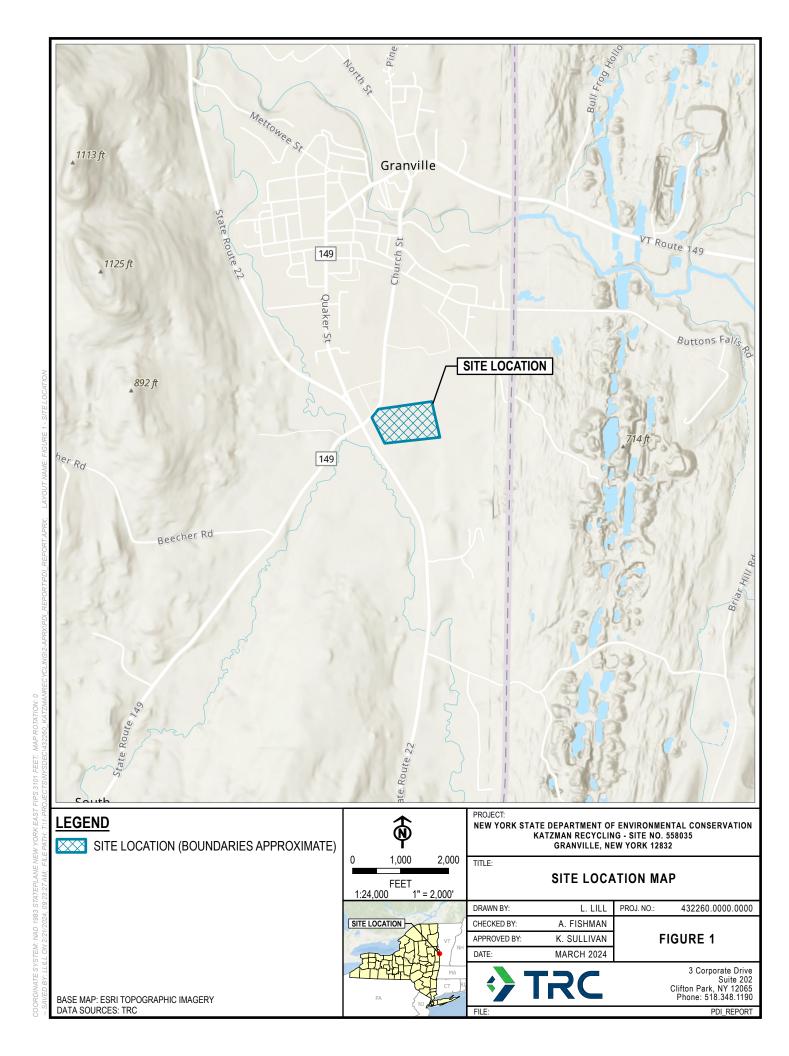
* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA groundwater.

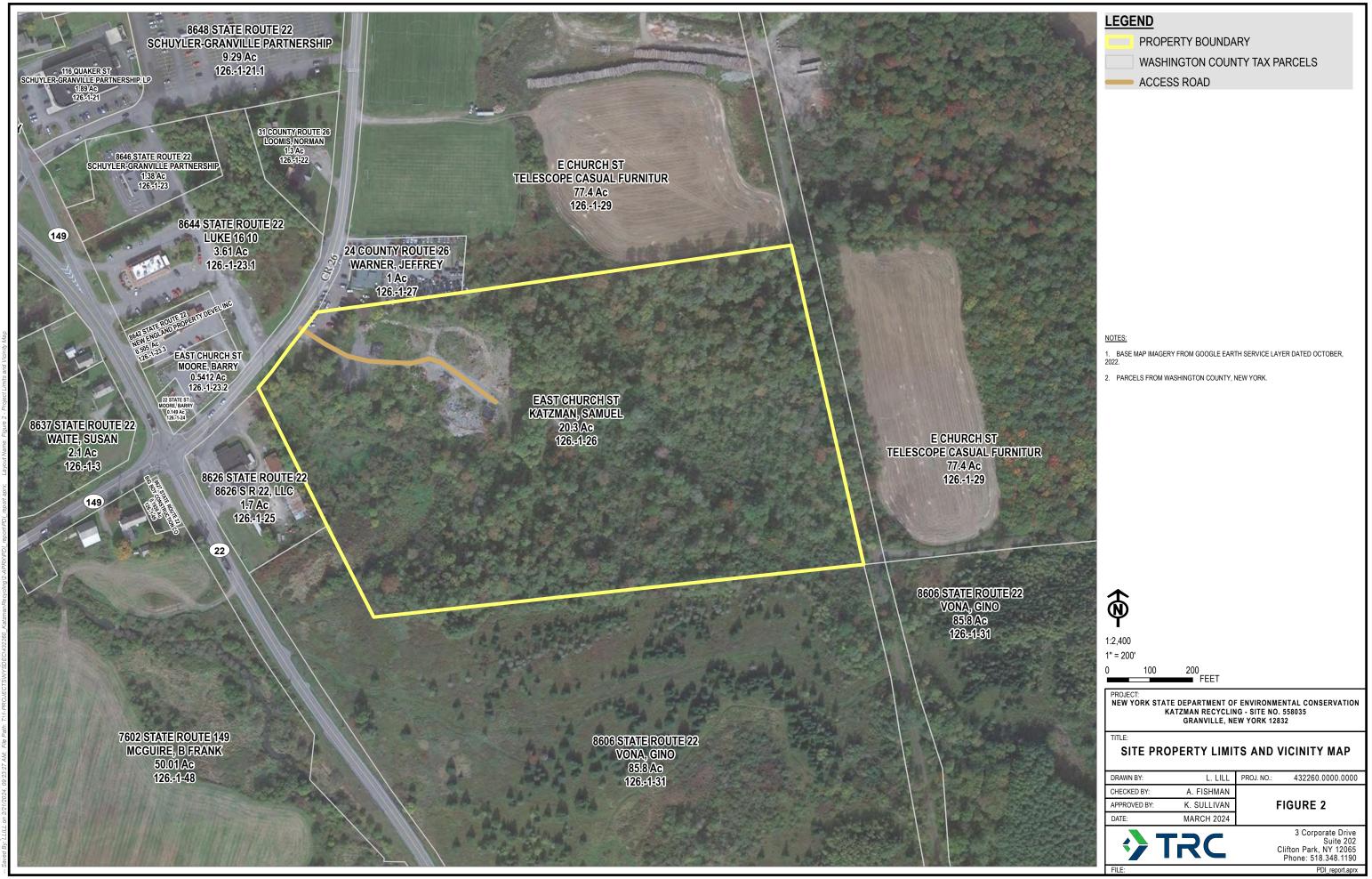
(a) - criteria applicable to the sum of the cis and trans isomers.



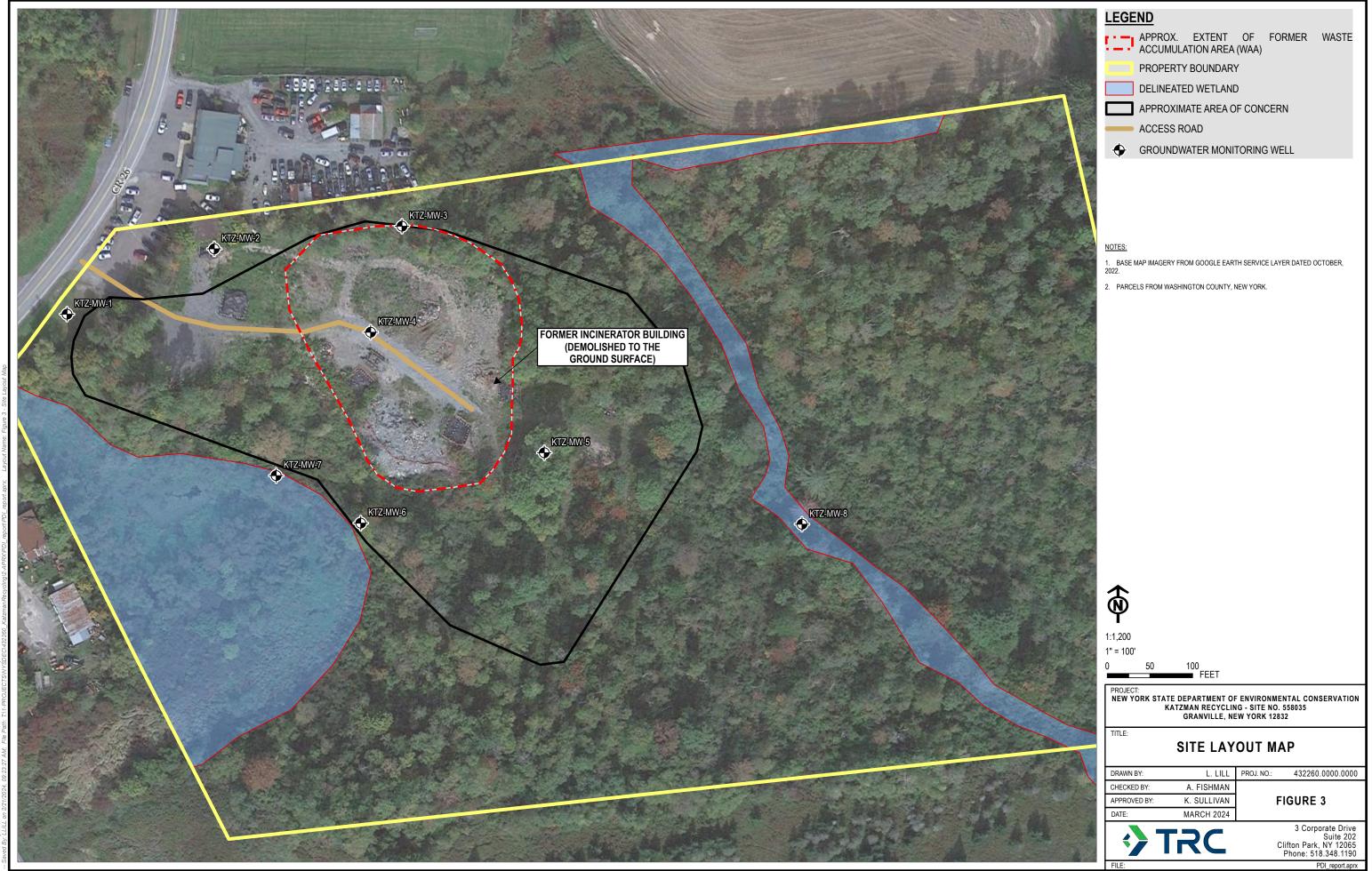


FIGURES

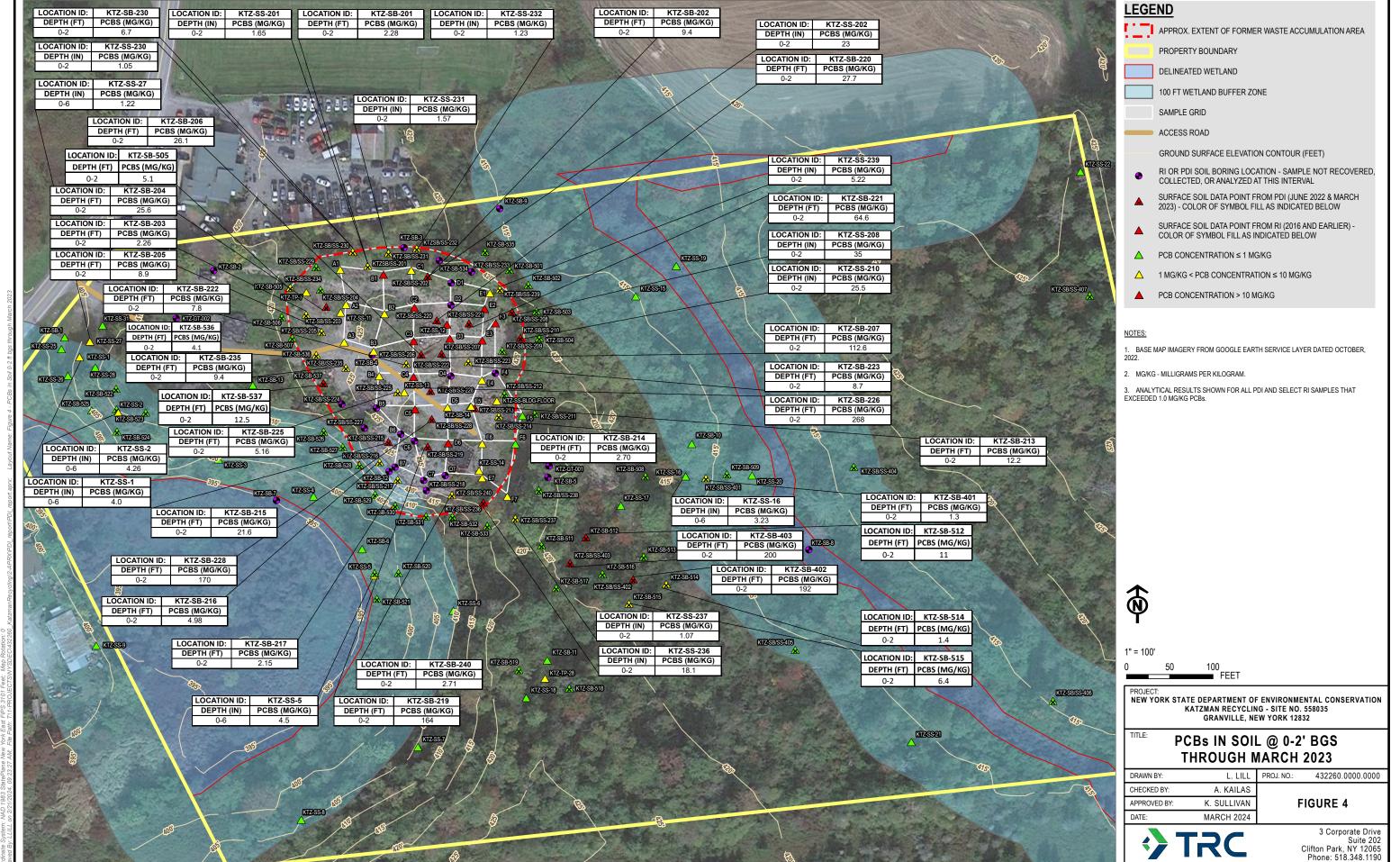




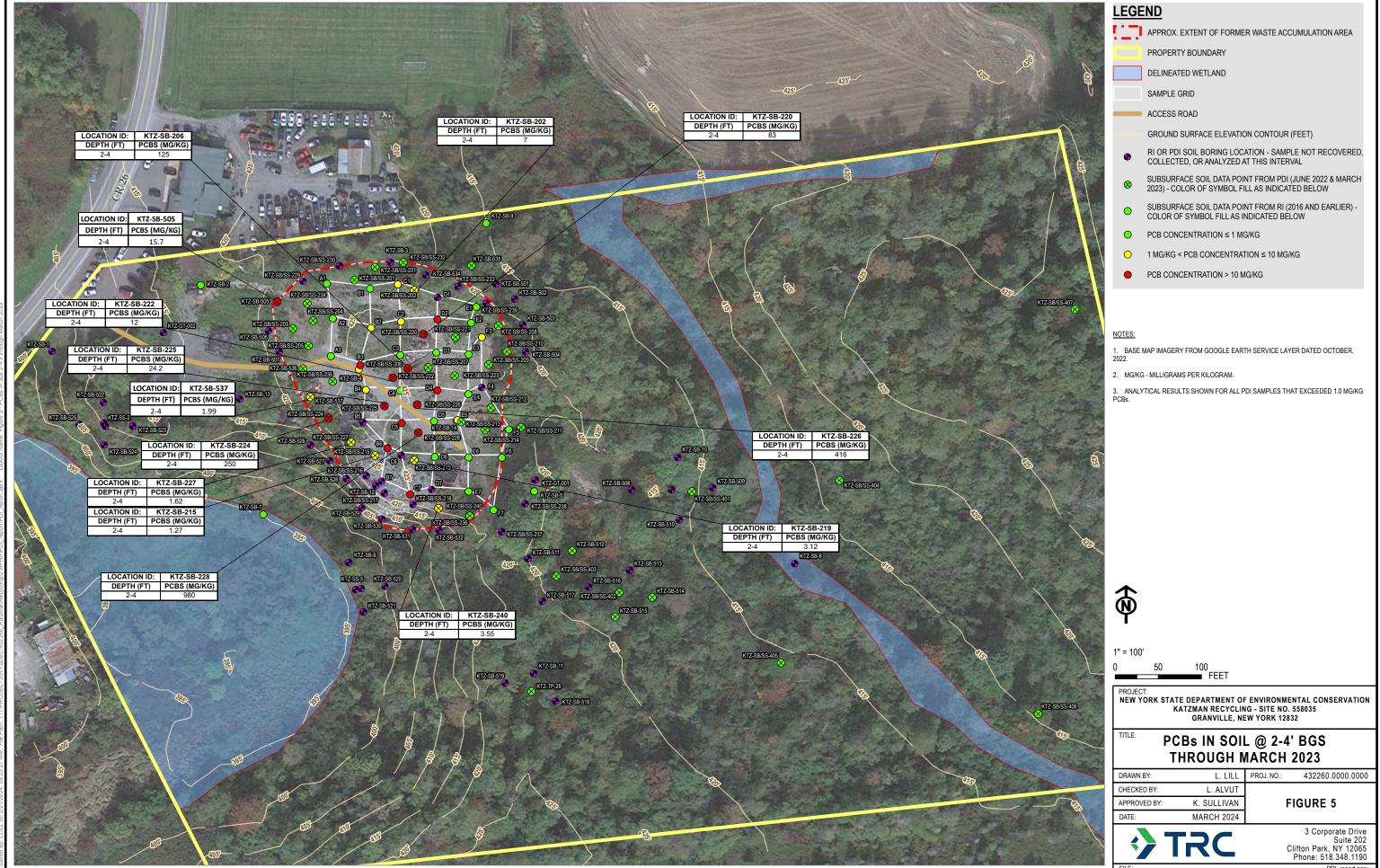
te System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation:



System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 0

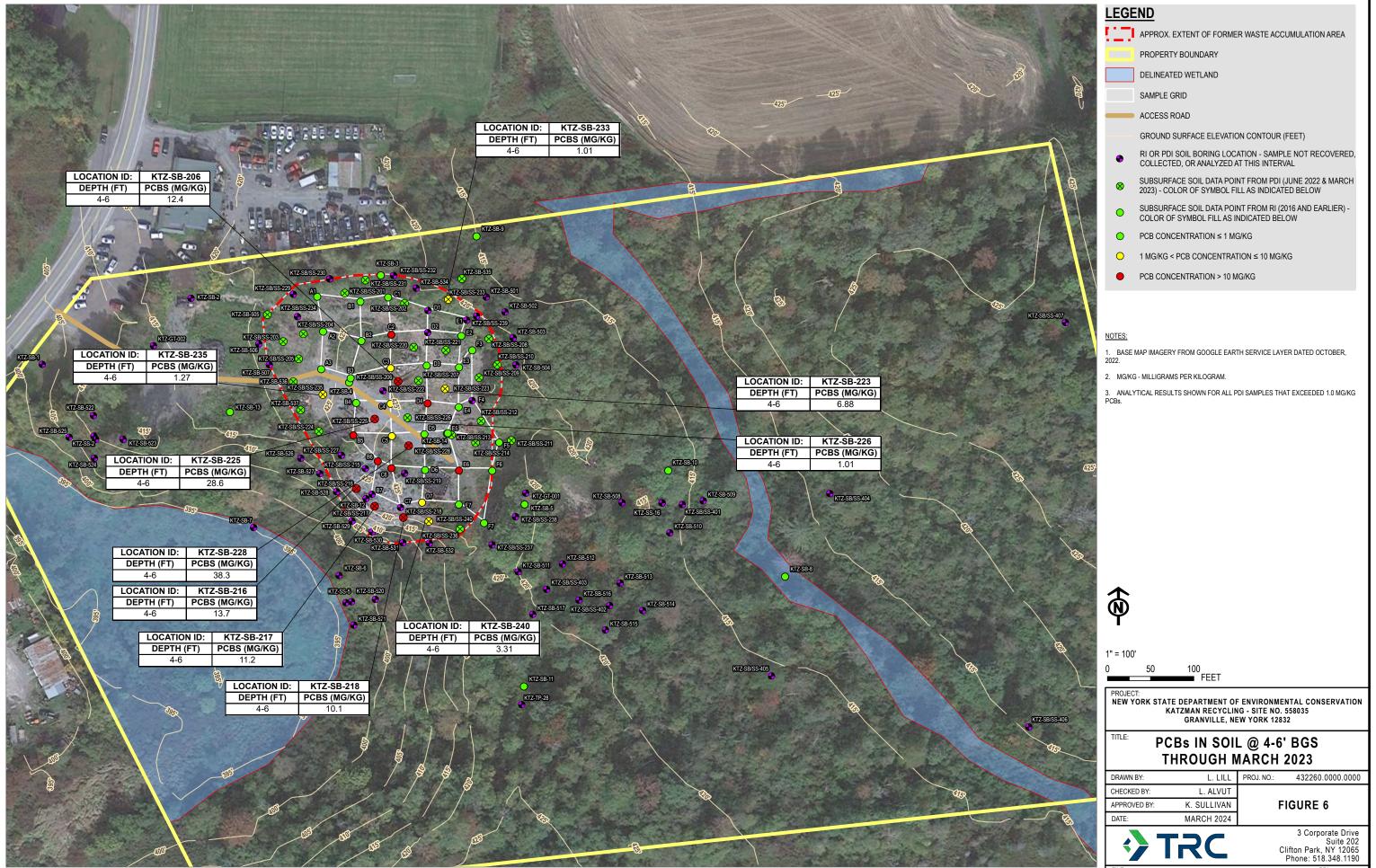


PDI report.aprx



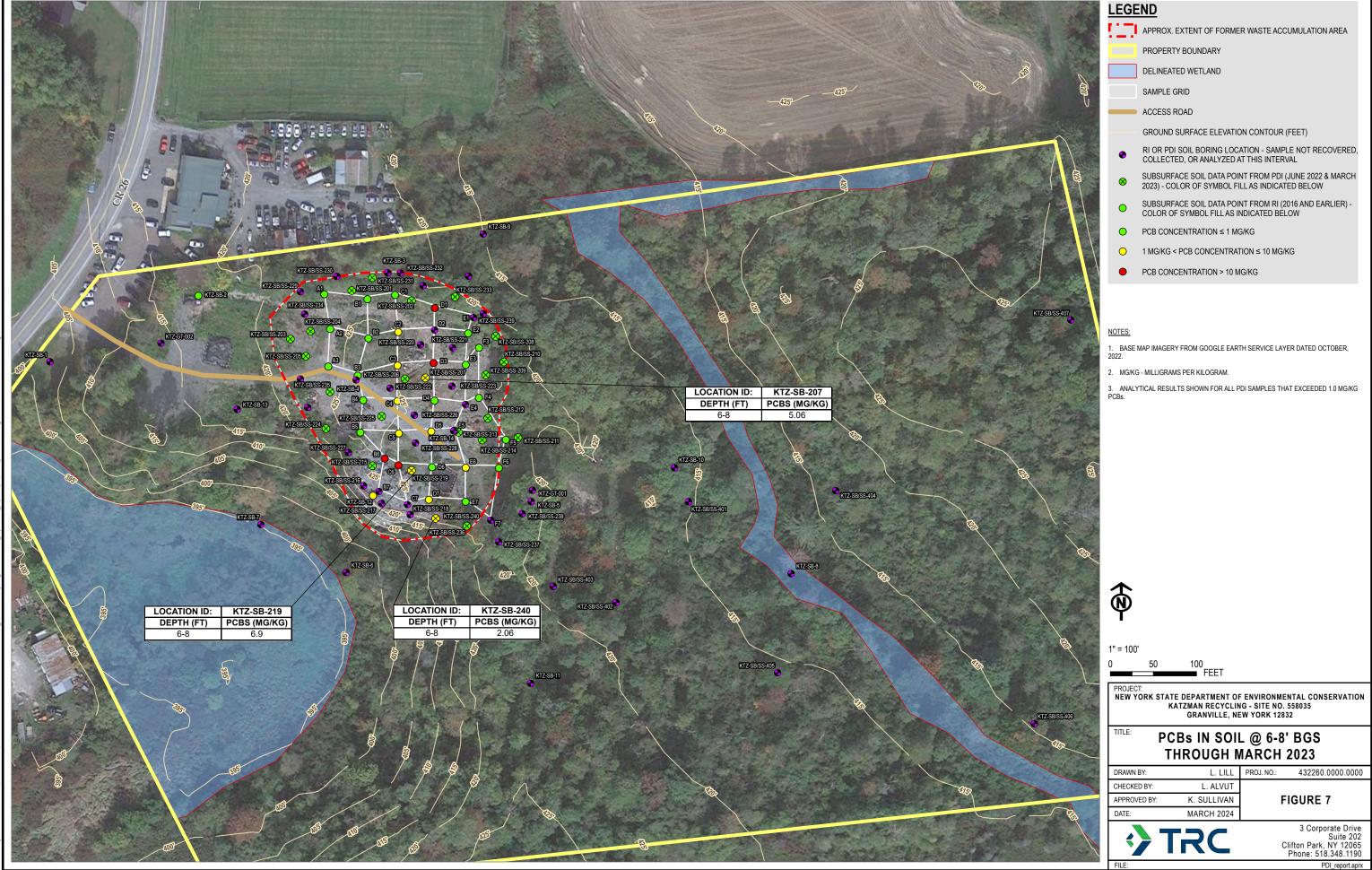
e System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 0

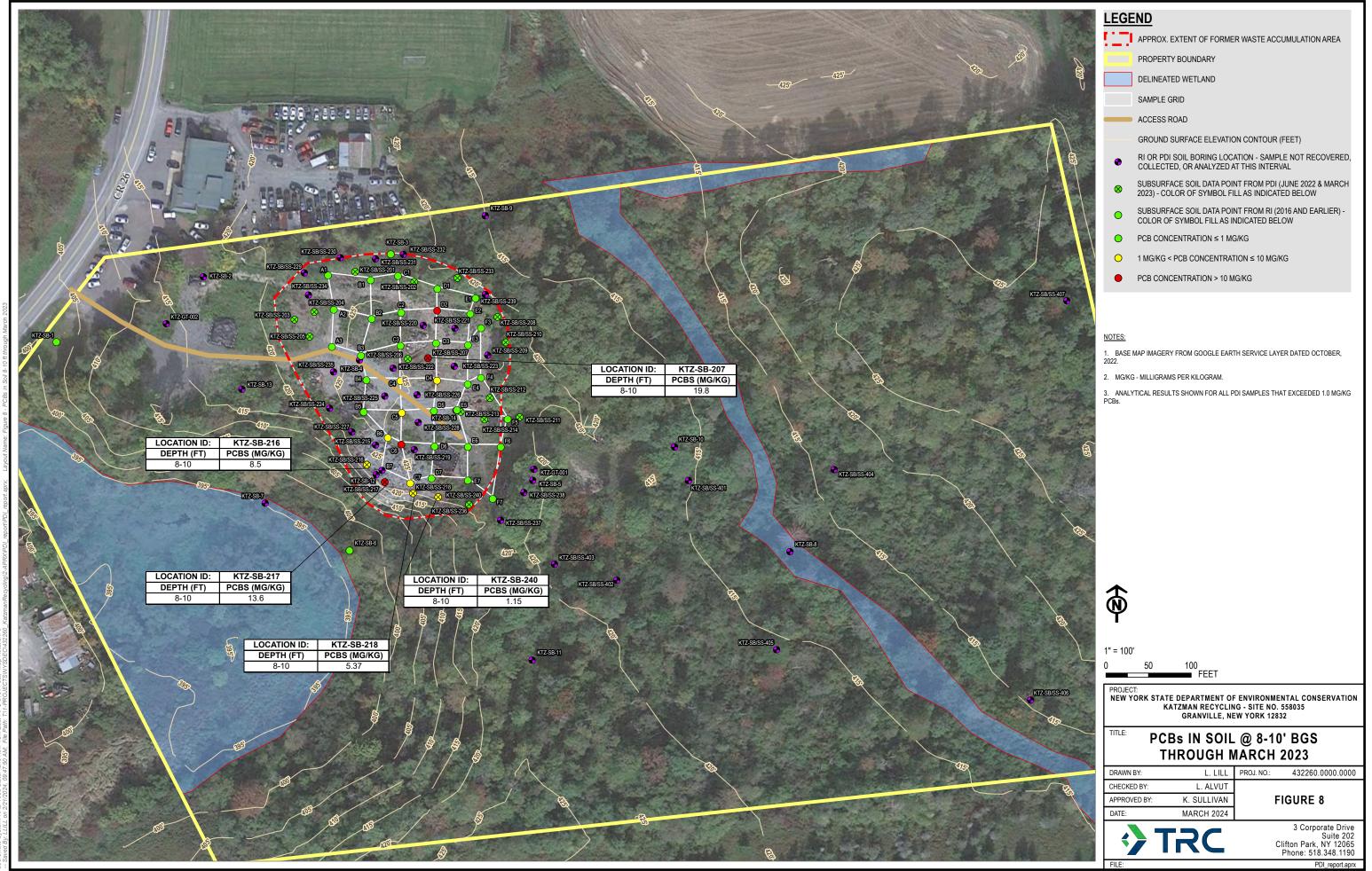
PDI_report.aprx



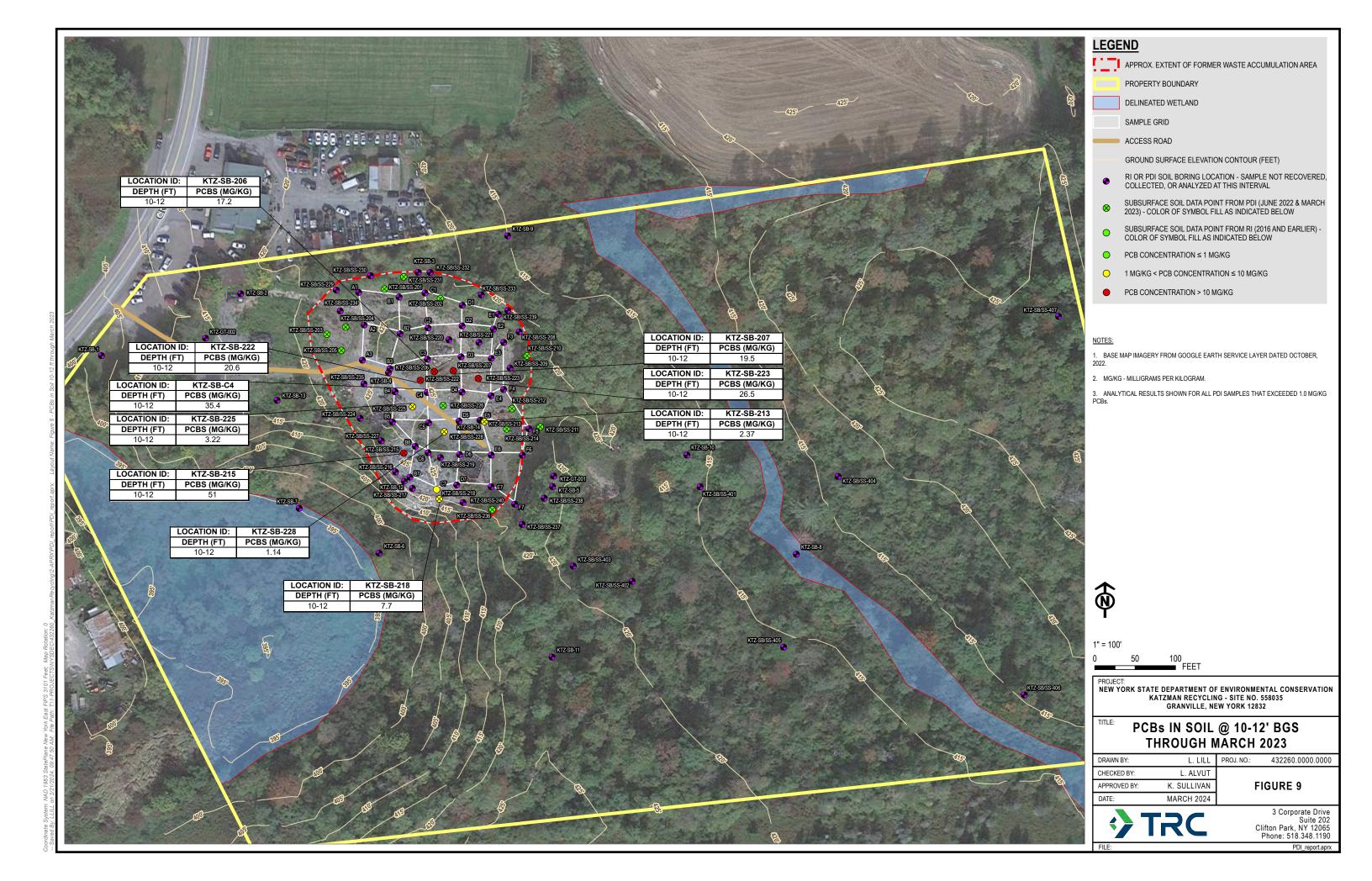
Coordinate System: NAD 1983 StatePlane New York East FIPS 310

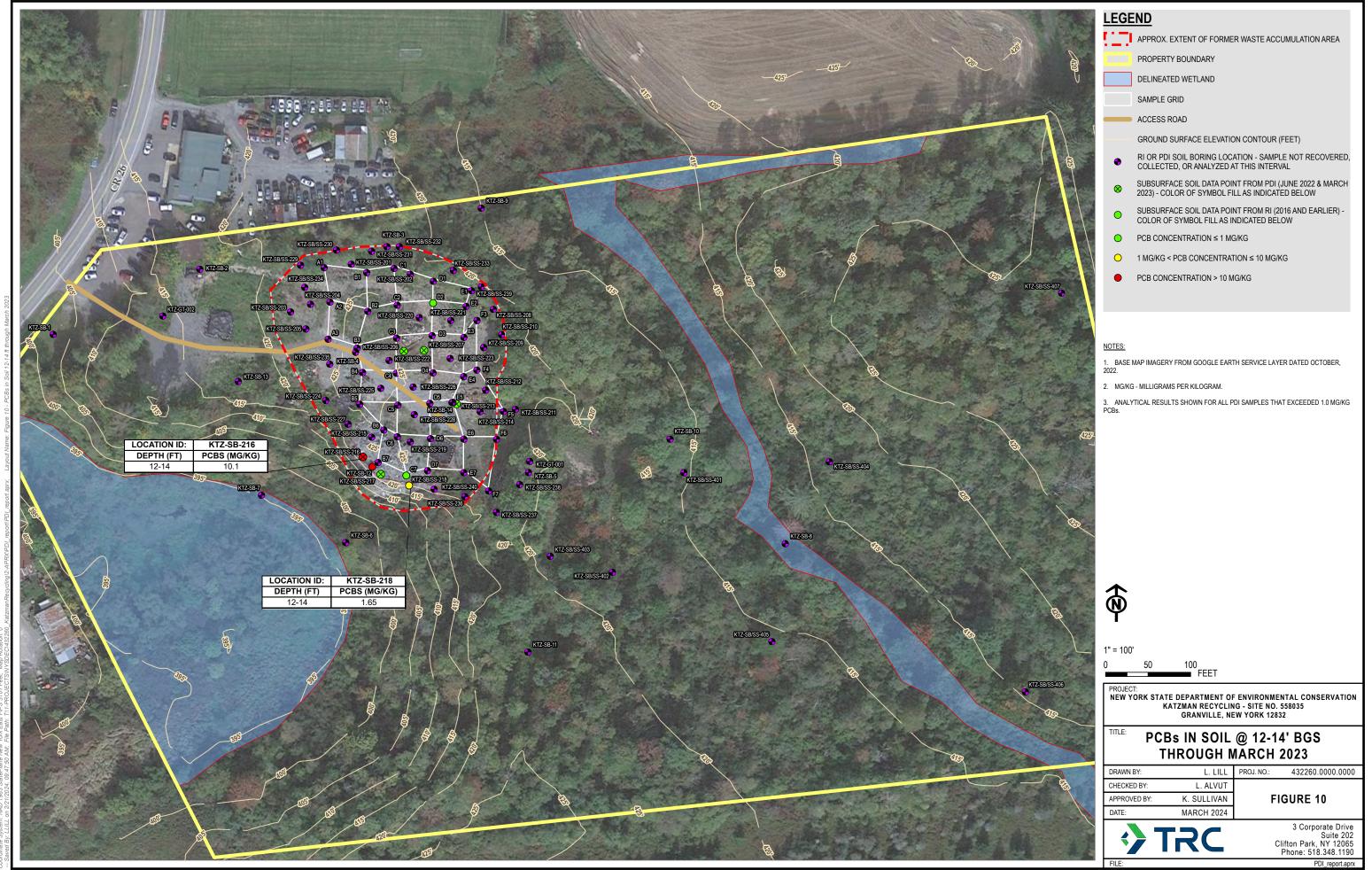
PDI_report.aprx



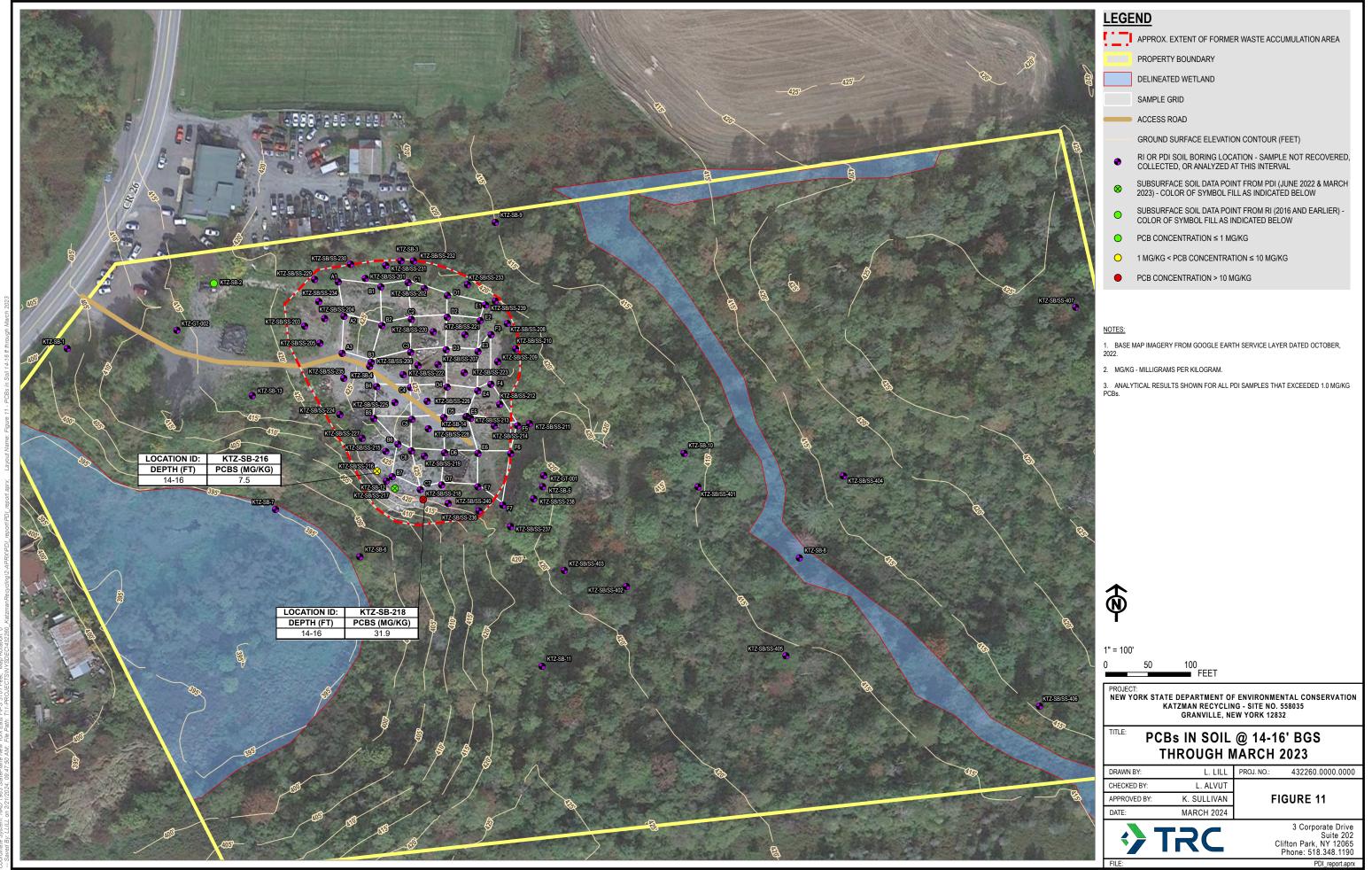


ordinate Sustem: NAD 1983 StateDiane New York East FIPS 3101 Feet: Man Rotation: O





P. March 1903 States Dans Now Vorte Flore 5404 Flores Bode States

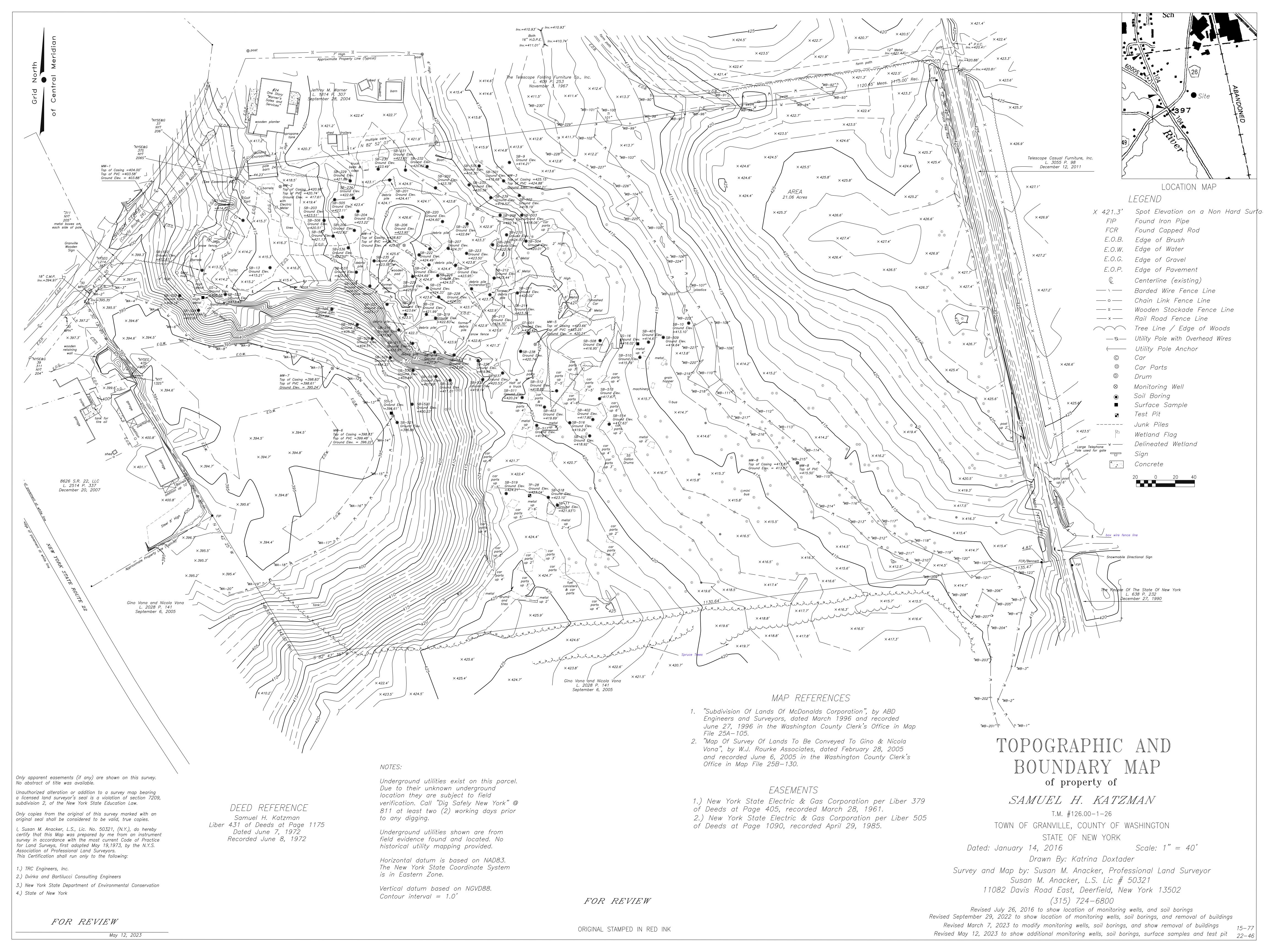


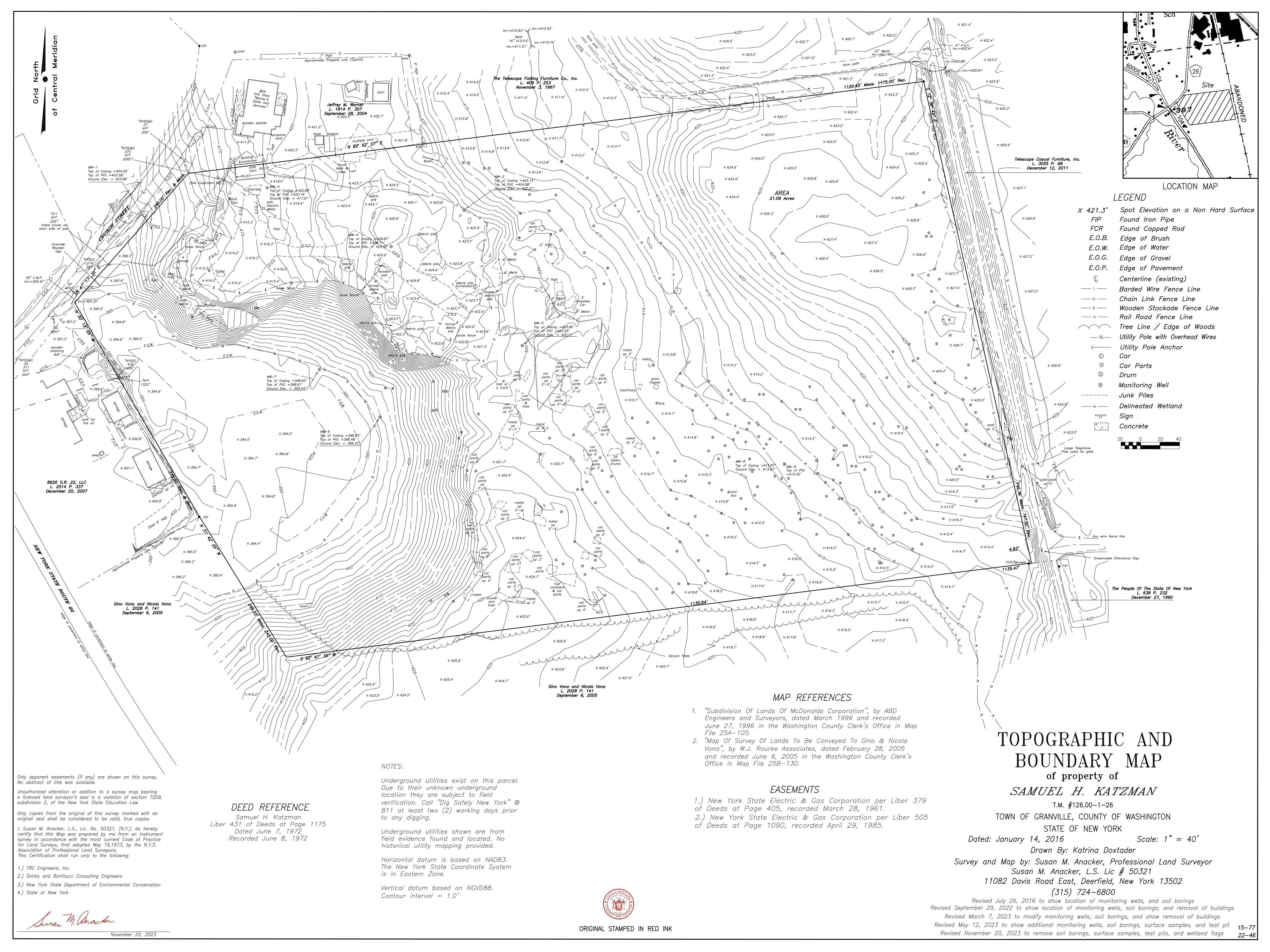
Anna 1000 Ottoballone Now Very Frank FIBO 2404 Food: Man Details



APPENDIX A SITE SURVEY MAP

March 2024







APPENDIX B SOIL BORING LOGS

							SOIL BORI	NG LOG					
							Project Name: Katzman Recy		Boring ID: K	TZ-SS-02			
		P .	$T \supset$				Project Location: Granville, I	NY	Page No.				
	7		TR				Project No.: 432260	Client: Parratt Wolff	1 of 1				
Boring		on: Katz					Refusal Depth: N/A	Total Depth: 6'	Bore Hole ID	D/OD:			
Veath	er: 34,	Cloudy					Soil Drilled:	Method: Direct push	Casing Size:	2.25"			
ubcor	ntractor	: Parrati	Wolff					Protection Level: D	Sampler: Ma				
riller	: PW						Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler ID/OD:				
ig Ty	pe/Mod	del: Geo	oprobe 7822 D	Т			Logged By: RD/AF	Checked By:					
		vation:					Water Level:	Time: 9:15-9:25					
		le Infori			Moni	toring							
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)				Sample Desc	cription and Classification	USCS Group Symbol	Remarks			
							(0-	1") Organic topsoil	İ				
2	1	36"/48"	0 0				(1"-4') Sand (F	F); some silt; grey; moist; N/O		N/O moist			
	2		Ů										
4			0										
5 6	3	24"/24"	0				(4-6);	SAA; moist-wet; N/O		N/O moist-wet			
								E.O.B. 6 ft bgs					
ОТЕ	'C•												

								SOIL BOR	ING LOG		
								Project Name: Katzman Rec		Boring ID	: KTZ-SS-16
			TR					Project Location: Granville,	NY	Page No.	
				-				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring	Locati	on: Katz	zman					Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:
Weath	her: 30, Cloudy Soil Drilled: Method: Direct push Casing Size: 2.25"								ze: 2.25"		
Subcor	ntractor	: Parratt	Wolff						Protection Level: D		Macro-Core
Driller	: PW							Date Started:	Date Completed: 3/8/2023	Sampler I	D/OD:
Rig Ty	pe/Mod	lel: Geo	oprobe 7822 D	T				Logged By: RD/AF	Checked By:		
Refere	nce Ele	vation:						Water Level:	Time: 15:35-15:45		
	Samp	le Infori	mation		Moni	toring					
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)					Sample De	scription and Classification	USCS Group Symbol	Remarks
1			0					(0	-1") Organic topsoil		N/O
•	1		Ü					(1"-1') Silt ar	d sand (F); moist; brown; N/O		1,70
2	0 48"/48"										Moist
3	2	2 0						(1-4') S	and (F); moist; grey; N/O		
4	_	0									
5	3	24"/24"	0						(4-6') SAA; wet		N/O; wet
6	3	24 /24	0						E.O.B. 6'		Wet
NOTE	S:			1	I	I					
.,,,,,,,	. <u></u>										

								SOIL BORI	NG LOG				
								Project Name: Katzman Recy		Boring ID	: KTZ-TP-28		
		_	TO					Project Location: Granville, I		Page No.	· · · · · · · · · · · · · · · · · · ·		
			TR					Project No.: 432260	Client: Parratt Wolff	1 of 1			
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole ID/OD:			
Weath								Soil Drilled:	Method: Direct push	Casing Siz			
	contractor: Parratt Wolff								Protection Level: D		Macro-Core		
Driller								Date Started: 3/9/2023	Date Completed: 3/8/2023	Sampler I			
		lel: Geo	probe 7822 DT					Logged By: RD/AF	Checked By:				
		vation:	<u> </u>					Water Level:	Time: 14:40-14:50				
		le Infori	nation		Moni	toring							
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)					Sample Desc	cription and Classification	USCS Group Symbol	Remarks			
1			0					(0-	2") organic topsoil		N/O; dry		
1			O					(2"-4") Sand	(F), some silt, grey; dry; N/O		14/0, tily		
2	0 36"/48"												
3	0												
4			0								N/O		
5	2	24"/24'	0					(4-6') Sand (F) so	me clay; moist; grey-brown; N/O		N/O; moist		
6	2	24 /24	0										
									E.O.B. 6 ft bgs				
-													
NOTE	S:							l					

						SOIL BORI	NGLOG					
						Project Name: Katzman Recy		Boring ID	: KTZ-SB-206			
		-	TO			Project Location: Granville, N		Page No.				
		7	TR			Project No.: 432260	Client: Parratt Wolff	1 of 1				
Boring						Refusal Depth: N/A	Bore Hole	e ID/OD:				
Weath						Soil Drilled:	Total Depth: 18' Method: Direct push	Casing Si	ze: 2.25"			
		: Parratt	Wolff				Protection Level: D		Macro-Core			
Driller	: PW					Date Started: 3/10/2023	Date Completed: 3/10/2023		D/OD: N/A			
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ		Logged By: RD/AF	Checked By:					
Refere	nce Ele	vation:				Water Level:	Time: 8:55-9:15					
	Samp	e Infori	nation	Mo	onitoring							
O Depth (feet bgs)	Sample Number retration/ Recovery (feet)					Sample Desc	Sample Description and Classification Some of the Control of the					
2			0									
4			0									
6			0			(0	(0-12') Not logged					
8			0									
10			0									
12			0			(12-14') Silt	and clay; brown; wet; N/O					
14	1	48"/48'	0			(14-16') Sand	I (F); brown-grey; wet; N/O		N/O wet			
16	2	40 /40	0			(16-1	18') SAA; wet; N/O					
18	3	24"/24"	0			F	E.O.B, 18 ft bgs					
L												
<u> </u>												
NOTE	<u>S:</u>											

						SOIL BORI	NGLOG				
						Project Name: Katzman Recy		Boring ID): KTZ-SB-207		
		_	TO			Project Location: Granville, I		Page No.			
		7	TR			Project No.: 432260	Client: Parratt Wolff	1 of 1			
Boring		on: Katz				Refusal Depth: N/A		Bore Hole ID/OD:			
	er: 23, 3					Soil Drilled:	Total Depth: 18' Method: Direct push	Casing Si			
		: Parratt	Wolff				Protection Level: D		Macro-Core		
Driller						Date Started: 3/10/2023	Date Completed: 3/10/2023	Sampler I			
		lel: Geo	probe 7822 DT			Logged By: RD/AF	Checked By:	-			
		vation:				Water Level:	Time: 8:25-8:45				
		le Infori		Mon	itoring						
Oppth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)			Sample Des	cription and Classification	USCS Group Symbol	Remarks		
2			0								
4			0								
6			0			(0	0-12') No logging		N/A		
8			0								
10			0								
12			0			(12-12.5') \$	Sand (F); brown; wet; N/O				
14	1	4011/401	0			(12.5-16') C	lay and silt; wet; grey; N/O		NOW.		
16	2	48"/48'	0			(16-	17') SAA; wet; N/O		N/O Wet		
18	3	24"/24"	0			(17-18)	Clay; light grey; wet; N/O				
						1	E.O.B. 18 ft bgs				
NOTE	<u>:S:</u>										

							SOIL BORI	NG LOG		
			1.7		-		Project Name: Katzman Recy		Boring ID:	: KTZ-SB-213
		_	TR				Project Location: Granville, N	ΙΥ	Page No.	
							Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring L	ocatio	n: Katz	zman				Refusal Depth: N/A	Total Depth: 18'	Bore Hole	ID/OD:
Weather	: 36, C	Cloudy					Soil Drilled:	Method: Direct push	Casing Siz	ze: 2.25"
Subconti		Parratt	Wolff					Protection Level: D	Sampler: N	Macro-Core
Driller: I							Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler II	D/OD: N/A
			probe 7822 DT	Γ			Logged By: RD/AF	Checked By:		
Reference							Water Level:	Time: 15:15-15:40		
O Depth (feet bgs)	Sample Number Benetration/ Recovery (feet) All Deading (ppm) PID Reading (ppm)				Moni	toring	Sample Desc	ription and Classification	USCS Group Symbol	Remarks
2			0							
4			0							
6			0				(0)	12') No Logging		
8			0				(0-			
10			0							
12			0							
14	1	48"/48'	0				(12-12.5') Clay;	some sand (F); grey; wet; N/O		N/O; wet
16	2	46 /46	0				(12.5-16') Silt ar	nd clay; brown-grey; wet; N/O		
18	3	24"/24"	0				(16-1	8') SAA; wet; N/O		
							E	C.O.B. 18 ft bgs		N/O; wet
									·	
										N/O; wet
									•	
NOTES	<u>:</u>						1			

	SOIL BORING LOG Project Name: Katzman Recycling Boring ID: KTZ-SB-235											
					đ				Boring ID	: KTZ-SB-235		
		_	TR				Project Location: Granville, NY		Page No.			
							Project No.: 432260	Client: Parratt Wolff	1 of 1			
Boring	Location	on: Katz	man				Refusal Depth: N/A	Total Depth: 12	Bore Hole	: ID/OD:		
Weath	er: 30, S	Sunny					Soil Drilled:	Method: Direct push	Casing Siz	ze: 2.25"		
Subco	ntractor	Parratt	Wolff					Protection Level: D	Sampler: 1	Macro-Core		
Driller							Date Started: 3/10/2023	Date Completed: 3/10/2023	Sampler I	D/OD: N/A		
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT				Logged By: RD/AF	Checked By:				
Refere	nce Ele	vation:	N/A				Water Level:	Time: 9:25-9:45				
Oppth (feet bgs)	Sample Information Monitoring Sample Information (Leet) D Reading (ppm) O Reading (ppm) O Reading (ppm) O Reading (ppm)				Moni	toring	Sample Descrip	tion and Classification	USCS Group Symbol	Remarks		
1 2 3 4 5 6							(0-6) No logging		N/A		
7 8 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						(8-9) :	cce silt; brown; moist; N/O SAA; wet; N/O I clay; brown; wet; N/O		N/O; moist		
11		42"/48"	0				(11-12') Sand (F); trace silt; grey; N/O				
12	3		0				E.O	.B. 12 ft bgs				
NOTES:												
1.011	. <u></u>											

								SOIL BORI	NGLOG		
								Project Name: Katzman Recy		Boring ID	9: KTZ-SB-501
		_	TR					Project Location: Granville, N		Page No.	
	V			-				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole	e ID/OD:
	er: 32, C							Soil Drilled:	Method: Direct push	Casing Si	
		: Parratt	Wolff						Protection Level: D		Macro-Core
Driller	: PW							Date Started: 3/8/2023	Date Completed: 3/8/2023	Sampler I	
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:		
Refere	nce Ele	vation:						Water Level:	Time: 13:25-13:35		
	Sample Information Monitoring										
O Depth (feet bgs)							·	cription and Classification	USCS Group Symbol	Remarks	
1			0					(0-0	0.1') Organic topsoil		Dry
	1							(1-1.5')) Silt; brown; dry; N/O		D.,
2		36"/48"	0					(1.5-3') Clay	and silt; brown; moist; N/O		
3	2		0					(, ,	, ,		Moist N/O
4			0					(3-4') Clay; some sar	nd (F); trace silt; brown; moistl N/O		N/O
5	3	24"/24"	0						(4-6') SAA		
6			0								Moist W/O
			0						E.O.B. 6 ft bgs		
_											
	ļ										
	•										
NOTE	S:								· · · · · · · · · · · · · · · · · · ·		

								SOIL BORI	NGLOG		
								Project Name: Katzman Recy		Boring ID	: KTZ-SB-502
		_	TO					Project Location: Granville, N		Page No.	
			TR	-				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:
	er: 30, (Soil Drilled:	Method: Direct push	Casing Siz	
		: Parratt	Wolff					Jon Brinea.	Protection Level: D		Macro-Core
Driller			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					Date Started: 3/8/2023	Date Completed: 3/8/2023	Sampler I	
		lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:	Sampler	5,05.
		vation:	F					Water Level:	Time: 13:40-13:55		
1101010		le Infori	nation		Moni	toring		Water Zeven	11110: 15:10 15:05		
O Depth (feet bgs)	Sample Number Penetration/ Recovery (feet) PID Reading (ppm)				8		Sample Desc	ription and Classification	USCS Group Symbol	Remarks	
								(0-0	2') Organic topsoil		
1								(0.2-2)	Silt and clay; brown		
2	1	26"/49"						(2-2.5') Silt, tr	ace clay; brown; moist; N/O		Moist N/O
3		36"/48"									
	2							(2.5-4') Sand (F) and clay; brown; moist; N/O		
4											
5	3	24"/24"							(4-6') SAA		Wet N/O
6									()		
									E.O.B. 6 ft bgs		
-											
-											
1											
NOTE	S:			1				1		l	

								SOIL BORI	NG LOG		
		O TO T-			-7			Project Name: Katzman Rec		Boring ID	: KTZ-SB-503
		Z .	TS					Project Location: Granville,		Page No.	
			TR	-				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:
		Cloudy						Soil Drilled:	Method: Direct push	Casing Siz	
		: Parratt	Wolff						Protection Level: D		Macro-Core
Driller								Date Started: 3/8/2023	Date Completed: 3/8/2023	Sampler I	
		lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:		
		vation:	<u> </u>					Water Level:	Time: 14:05-14:15		
		le Infori	nation		Moni	itoring					
Oppth (feet bgs)	Sample Number Penetration/ Recovery (feet) PID Reading (ppm)						Sample Des	cription and Classification	USCS Group Symbol	Remarks	
1			0						(0-1') Topsoil		N/O wet
	1		Ü					(1-2') Sano	1 (F); silt, brown; wet; N/O		100 000
2		36"/48"	0					(2-4') Sand (1	F); silt; brown-grey; wet; N/O		
3		30 740	0					(2-4) Sand (1), siit, otowii-gicy, wet, 140		
4	2		0								N/O Wet clay
5			0					(4-6') Clay as	nd silt; brown-grey; wet; N/O		
6	3	24"/24"	0								N/O Wet
			0						E.O.B. 6 ft bgs		
NOTE	S:	<u>I</u>	<u> </u>	1	1	ı	<u> </u>	ı		<u> </u>	

							SOIL BORI	NGLOG		
							Project Name: Katzman Recy		Boring ID): KTZ-SB-504
		_	TO				Project Location: Granville, 1		Page No.	
			TR	-			Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz					Refusal Depth: N/A	Total Depth: 6'	Bore Hole	e ID/OD:
	er: 30, (Soil Drilled:	Method: Direct push	Casing Si	
		: Parratt	Wolff				John Brinieu.	Protection Level: D		Macro-Core
Driller			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Date Started: 3/8/2023	Date Completed: 3/8/2023	Sampler I	
		lel: Geo	probe 7822 DT	Γ			Logged By: RD/AF	Checked By:	Sumprer 1	5,05.
		vation:					Water Level:	Time: 14:15-14:25		
1.01010		le Infori			Moni	toring	Water Edver	111101111011120		
O Depth (feet bgs)	Sample Number Penetration/ Recovery (feet) PID Reading (ppm)				<u> </u>	Sample Desc	cription and Classification	USCS Group Symbol	Remarks	
1							(0-2	2) Topsoil organic		
2	1	1211/1011					(2-3') Silt and sand	1 (F); trace (?) brown; moist; N/O		N/O moist
3	42"/48"						(3-4') Sand (F); so	ome clay; brown clay; moist; N/O		
4	2							(4-5') SAA		
5	2	24"/24"					(5-6') Clay and sand	d (F); brown-grey; moist-wet; N/O		N/O wet
6	3	24"/24"					F	C.O.B. at 6 ft bgs		
 										
NOTE	c.					<u> </u>				
NOTE	<u>:</u>									

							SOIL BORI	NG LOG		
							Project Name: Katzman Recy		Boring ID	: KTZ-SB-505
		_ -	TS				Project Location: Granville, N		Page No.	
			TR				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz					Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:
	er: 31, (Soil Drilled:	Method: Direct push	Casing Siz	
		: Parratt	Wolff					Protection Level: D		Macro-Core
Driller	: PW						Date Started: 3/10/2023	Date Completed: 3/10/2023	Sampler I	
		lel: Geo	probe 7822 DT	Γ			Logged By: RD/AF	Checked By:		
Refere	nce Ele	vation:					Water Level:	Time: 10:40-10:45		
	Samp	le Infori	nation	N	Monite	oring				
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)				Sample Desc	ription and Classification	USCS Group Symbol	Remarks
2 3	- 1	48"/48"	0.5				(0-4') Fill (clay, fragme	nts); dry; black-red; slight petrol odor		Odor, dry
4	2		0							
5	3	24"/24"	0					(4-4.5') SAA		N/O
6	-		0				(4.5-6') Silt;	brown-orange; moist; N/O		N/O; moist
								E.O.B. 6 ft bgs		
NOTE	ES:									

								SOIL BORI	NG LOG		
								Project Name: Katzman Recy		Boring ID	: KTZ-SB-506
		/ ·	TD					Project Location: Granville, N		Page No.	
			TR	-				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole	e ID/OD:
-		Clear/su						Soil Drilled:	Method: Direct push	Casing Si	
		: Parratt							Protection Level: D		Macro-Core
Driller								Date Started: 3/10/2023	Date Completed: 3/10/2023		D/OD: N/A
		lel: Geo	probe 7822 D7	Γ				Logged By: RD/AF	Checked By:		
		vation:						Water Level:	Time: 10:50-11:00		
		le Infori	mation		Moni	itoring					
O Depth (feet bgs)	Sample Number hetration/ Recovery (feet) ID Reading (ppm)							Sample Desc	ription and Classification	USCS Group Symbol	Remarks
1			0					(0-0.5')	Fill; brown; dry; N/O		N/O; dry
2	0 42"/48"							(0.5-1') Silt	; brown-orange; dry; N/O		
3	2		0					(1-4') Sano		N/O; moist	
4			0								
5	3	24"/24"	0					(4	-4.5') SAA; N/O		
6			0					(4.5-6') Silt an	nd clay. Brown; moist; N/O		N/O moist
								1	E.O.B. 6 ft bgs		
l											
NOTE	S:										

								SOIL BORIN	NGLOG		
					-7			Project Name: Katzman Recyc		Boring II	D: KTZ-SB-507
		_	TS					Project Location: Granville, N		Page No.	
			TR					Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring								Refusal Depth: N/A	Total Depth: 6'	Bore Hole	e ID/OD:
		lear, su						Soil Drilled:	Method: Direct push	Casing Si	
		: Parratt							Protection Level: D		Macro-Core
Driller	PW							Date Started: 3/10/2023	Date Completed: 3/10/2023	Sampler l	
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:		
Refere	nce Ele	vation:						Water Level:	Time: 11:05-11:15		
	Samp	le Infori	nation		Moni	toring					
Opth (feet bgs)	Sample Number Penetration/ Recovery (feet) PID Reading (ppm)						Sample Desc	ription and Classification	USCS Group Symbol	Remarks	
1			0					(0-	1') Fill; dry; N/O		Fill; N/O; dry
	1							·			, , ,
2			0								N/O
		36"/48"									
3	2		0					(1-4') Silt; trace	e veg; brown; dry-moist; N/O		
4			0								N/O moist
5	3	24"/24"	0					(4-6') SAA	(silt; brown; moist; N/O)		
6			0								N/O moist
								I	E.O.B. 6 ft bgs		
	\neg \mid \mid \mid \mid \mid \mid										
NOTE	<u>S:</u>										

							Project Name: Katzman Rec	NG LOG	Boring ID:	KTZ-SB-508	
		_	TO				Project Location: Granville,		Page No.	1112 52 500	
	Y		TR				Project No.: 432260	Client: Parratt Wolff	1 of 1		
oring		on: Katz					Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:	
	er: 30, 0						Soil Drilled:	Method: Direct push	Casing Size		
		Parratt	Wolff					Protection Level: D	Sampler: N		
	: PW						Date Started: 3/8/2023	Date Completed: 3/8/2023	Sampler II		
g Ty	pe/Mod	lel: Geo	orobe 7822 DT	Γ			Logged By: RD/AF	Checked By:	•		
efere	nce Ele	vation: l	N/A				Water Level:	Time: 14:35-14:45			
		e Inforn			Moni	toring					
Oppth (feet bgs)	Sample Number Penetration/ Recovery (feet) PID Reading (ppm)						Sample Des	Sample Description and Classification			
							(0	-1') Organic topsoil			
1			0					Sand; brown; moist; N/O			
2			6							37/0	
2	1	2611401	0				/* = ···	Cile and alam mail (NVO		N/O	
2		36"/48"	0				(1.5-4')	Silt and clay; moist; N/O			
3			0								
4	2		0								
4	2		0				(4-5.5') S	and (F); brown; wet; N/O		Wet N/O	
5			0								
3	3	24"/24"	U								
6	3	24 /24	0				(5.5-6)' Clay	and sand (F); wet; brown; N/O			
0			O								
								E.O.B. 6 ft bgs			
	1										
	1										
	1										
]										

								SOIL BORI	NG LOG		
								Project Name: Katzman Recy		Boring ID	: KTZ-SB-509
			TR					Project Location: Granville, N	NY	Page No.	
								Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring	Locati	on: Katz	zman					Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:
Weath								Soil Drilled:	Method: Direct push	Casing Siz	ze:
Subcor	itractor	Parratt	Wolff						Protection Level: D	Sampler: 1	Macro-Core
Driller	: PW							Date Started: 3/8/2023	Date Completed: 3/8/2023	Sampler I	
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:		
Refere								Water Level:	Time: 15:20-15:30		
	Samp	e Infori	nation		Moni	toring					
Oppth (feet bgs)	Sample Number Penetration/ Recovery (feet) PID Reading (ppm)						·	cription and Classification	USCS Group Symbol	Remarks	
1			0					(0-	1') Organic topsoil		N/O
1	1		· ·					(1-2') Silt a	and clay; grey; moist; N/O		100
2		36"/48"	0								
3	2	30 /40	0					(2-4') Sand (F)	; some clay, grey, moist, N/O		
4	2		0								
5	3	24"/24"	0						(4-5') SAA		Moist
6	,	24 /24	0					(5-6') Silt and	clay; brown-grey; moist; N/O		N/O
								I	E.O.B 6 ft bgs		
	 										
NOTE	<u>S:</u>			•						l .	

								SOIL BORI			
					7			Project Name: Katzman Recy	cling		: KTZ-SB-510
		_	TR					Project Location: Granville, N	ΙΥ	Page No.	
				-				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring	Location	on: Katz	zman					Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:
Weath	er: 30, 0	Cloudy						Soil Drilled:	Method: Direct push	Casing Siz	ze: 2.25"
Subcor	ntractor	: Parratt	Wolff						Protection Level: D	Sampler: 1	Macro-Core
Driller								Date Started: 3/8/2023	Date Completed: 3/8/2023	Sampler I	D/OD:
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:		
Refere	nce Ele	vation:	N/A					Water Level:	Time: 15:00-15:15		
	Samp	e Infori	mation		Moni	toring					
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)		Sample Description and Classification				USCS Group Symbol	Remarks	
1			0					(0-0.	5') Organic topsoil		N/O
	1							`	, ,		
2		36"/48"	0					(0.5-2') Silt; som	ne sand (F); brown; moist; N/O		
3	2		0					(2-4) Sand (F)	some clay; brown; moist; N/O		N/O; moist
4	2		0					(2 4) Sand (1),	some entry, brown, moist, 140		
5	3	24"/24"	0					(4-5') Sar	nd (F); brown; wet; N/O		
6	3	24 /24	0					(5-6') Sand (F), and	clay; brown/gray; moist/wet; N/O		
_											
NOTE	S: Star	at 1500	0, end at 1515								

							SOIL BORI	NG LOG		<u></u>
							Project Name: Katzman Recy		Boring II	D: KTZ-SB-511
			TR				Project Location: Granville, N	ΙΥ	Page No	
	Y						Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring	Locati	on: Katz	zman				Refusal Depth: N/A	Total Depth: 6'	Bore Ho	le ID/OD:
Weath	er: 36, c	Cloudy					Soil Drilled:	Method: Direct push	Casing S	ize: 2.25"
Subcor	ntractor	Parratt	Wolff					Protection Level: D	Sampler	Macro-Core
Driller	: PW						Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler	ID/OD:
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ			Logged By: RD/AF	Checked By:		
Refere	nce Ele	vation:	N/A				Water Level:	Time: 12:40-12:50		
	Samp	e Infori	mation		Moni	toring				
Oppth (feet bgs)							Sample Desc	ription and Classification	USCS Group Symbol	Remarks
1			0					(0-2") Organic		
•	1		Ü							
2			0				(2"-3') Silt; trace s	and, trace veg; brown; dry; N/O		
		36"/48"								
3	2		0				(3-4') Silt; trace	sand (F); brown; moist; N/O		
4			0							
5	3	24"/24"	0				(4-6	') SAA; moist at 5'		
6			0				(1	E.O.B.) 6 ft bgs		
NOTE	c.					l				
NOIE										

								SOIL BORI	NG LOG		
								Project Name: Katzman Recy		Boring ID	: KTZ-SB-512
			TO					Project Location: Granville, N		Page No.	
	3		TR					Project No.: 432260	Client: Parratt Wolff	1 of 1	
Roring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole	· ID/OD:
		Cloudy						Soil Drilled:	Method: Direct push	Casing Si	
		: Parratt	Wolff					John Difficu.	Protection Level: D		Macro-Core
Driller		. 1 411411	· WOIII					Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I	
		lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:	Sumpler 1	DIOD.
		vation:						Water Level:	Time: 12:50-13:00		
Refere		le Infori			Moni	toring		Water Level.	Time. 12.30-13.00		
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)					Sample Description and Classification			Remarks
1			0					(0-6")	Silt; dry; brown; N/O		N/O; dry
	1							, ,	, ,		
2			0								
		48"/48"									
3	2		0					(6"-4') Silt	; sand (F)l grey; dry; N/O		
4			0								N/O; dry
5	3	24"/24"	0					(4-6') Sand (F	r)l trace silt; grey; moist; N/O		N/O; moist at 5'
6			0								
									E.O.B. 6 ft bgs		
-											
	1										
	1										
	1										
NOTE	S:							<u> </u>			

							SOIL BORI	NG LOG		
							Project Name: Katzman Recy		Boring ID	: KTZ-SB-513
			TO				Project Location: Granville, I		Page No.	. 1112 52 513
	3		TR				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Rorino		on: Katz					Refusal Depth: N/A	Total Depth: 6'	Bore Hole	· ID/OD:
Weath							Soil Drilled:	Method: Direct push	Casing Si	
		: Parratt	Wolff				John Difficu.	Protection Level: D		Macro-Core
Driller		. 1 411411	· WOIII				Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I	
		lel: Geo	probe 7822 DT	Γ			Logged By: RD/AF	Checked By:	Sumpler 1	DIOD.
		vation:					Water Level:	Time: 14:00-14:10		
Refere		le Infori			Moni	toring	Water Level.	Time. 14.00-14.10		
Oppth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)				Sample Desc	cription and Classification	USCS Group Symbol	Remarks
1			0				(0-1	1") Organic topsoil		N/O
1	1		U				(1"-1') Silt; tra	ce sand (F); brown; dry; N/O		N/O
2	1	36"/48"	0							
3	2	50 7 10	0				(1-4') Sand (F); trace silt; grey; dry; N/O		N/O
4			0							
5	3	24"/24"	0				(4-6') SA	A; wet (saturated); N/O		
6			0						N/O; wet	
								E.O.B. 6 ft bgs		
L										
NOTE	S:									

							SOIL BORI	NG LOG		
							Project Name: Katzman Rec		Boring ID	: KTZ-SB-514
			TO				Project Location: Granville,		Page No.	
			TR				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz					Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:
		Cloudy					Soil Drilled:	Method: Direct push	Casing Siz	
		: Parratt	t Wolff				John Brinieur	Protection Level: D		Macro-Core
Driller							Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I	
		del: Geo	probe 7822 DT	Γ			Logged By: RD/AF	Checked By:	Sampler 1	5,05.
		vation:		-			Water Level:	Time: 13:40-13:50		
		le Infori			Moni	toring				
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)				Sample Des	cription and Classification	USCS Group Symbol	Remarks
1			0				(0-	2") Organic topsoil		N/O
1	1		O O				(2"-4") Sand (F):	trace silt; brown-grey; dry; N/O		14/0
2		36"/48	0							
3	2	30 748	0							
4	2		0							
5	3	24"/24"	0				(4-	6') SAA; wet; N/O		N/O; wet
6	3	24 /24	0							
							1	E.O.B. at 6 ft bgs		
NOTE	<u>:S:</u>	<u> </u>								

								SOIL BORI	NG LOG		
								Project Name: Katzman Rec		Boring ID	: KTZ-SB-515
		/ ·	TO					Project Location: Granville, 1		Page No.	
	3		TR					Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:
		Cloudy						Soil Drilled:	Method: Direct push	Casing Siz	
		: Parratt	Wolff						Protection Level: D		Macro-Core
Driller								Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I	
		del: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:		
		vation:						Water Level:	Time: 13:30-13:35		
		le Infori			Moni	toring					
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)					Sample Des	cription and Classification	USCS Group Symbol	Remarks
1			0					(0-	2") Organic topsoil		N/O
1	1		Ü					(2-10")) Silt; brown; dry; N/O		14/0
2	-	42"/48"	0					(10"-4") Sand (F):	trace silt; brown-grey; moist; N/O		N/O; moist
3	2	72 / 70	0					(10 -4) Sanu (1),	trace sitt, brown-grey, moist, 140		IVO, moist
4			0								N/O; wet at 5"
5	3	24"/24"	0						(4-6') SAA; wet		N/O wet
6								I	E.O.B. at 6 ft bgs		
	•										
NOTE	<u> </u>	1						l			

								SOIL BORI	NG LOG				
					-1			Project Name: Katzman Recy		Boring ID	: KTZ-SB-516		
			TS					Project Location: Granville, N	ΙΥ	Page No.			
			TR					Project No.: 432260	Client: Parratt Wolff	1 of 1			
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole	EID/OD:		
Weath	er: 30, c	Cloudy						Soil Drilled:	Method: Direct push	Casing Siz	ze: 2.25"		
Subcor	itractor	Parratt	Wolff						Protection Level: D	Sampler: Macro-Core			
Driller	: PW							Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I	D/OD:		
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:				
Refere	nce Ele	vation:	N/A					Water Level:	Time: 13:20-13:27				
	Samp	e Infori	mation		Moni	itoring							
Opth (feet bgs)	Pene PIC Sc							-	ription and Classification	USCS Group Symbol	Remarks		
1			0					(0-2	2") organic topsoil		N/O		
	1		-					(2"-1')	Silt; brown; dry; N/O				
2													
3	2		0						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
4			0								N/O; moist		
5	3	24"/24"	0					(4'-6');	SAA; wet at 5'; N/O		N/O; wet at 5'		
6	J	2.72.	0										
NOTE	<u>S:</u>												

								SOIL BORI	NG LOG		
								Project Name: Katzman Recy		Boring ID	: KTZ-SB-517
			TO					Project Location: Granville, N	<u> </u>	Page No.	
	3		TR					Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole	: ID/OD:
	er: 35,							Soil Drilled:	Method: Direct push	Casing Si	
		: Parratt	Wolff					Jon Dimed.	Protection Level: D		Macro-Core
Driller								Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I	
		lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:	Sumprer 1	5,05.
		vation:						Water Level:	Time: 13:10-13:15		
-		le Infori			Moni	toring		Water Beven	11110 13110		
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)					Sample Desc	cription and Classification	USCS Group Symbol	Remarks
1			0					(0-2	2") Organic topsoil		N/O; dry
2	1	45"/48"	0					(2"-2) Silt;	trace veg; brown; dry; N/O		
3	2	43 /48	0					(2-4') Sand (F);	trace silt; brown-grey; dry; N/O		N/O; dry
4			0						(2-4') Sand (F); trace silt; brown-grey; dry; N/O		
5	3	24"/24"	0					(4'-6') S.	AA: wet/saturated; N/O		
6			0						E.O.B. 6 ft bgs		N/O; wet
									2.0.2.0 % % %		
NOTE	S:										

							SOIL BORI	NGLOG		
							Project Name: Katzman Recy		Boring ID	0: KTZ-SB-518
		_	TO				Project Location: Granville, I		Page No.	
			TR	-			Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz					 Refusal Depth: N/A	Total Depth: 6'	Bore Hole	e ID/OD:
		Cloudy					 Soil Drilled:	Method: Direct push	Casing Si	
		: Parratt	Wolff					Protection Level: D		Macro-Core
Driller							 Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I	
		lel: Geo	probe 7822 DT	Γ			 Logged By: RD/AF	Checked By:		
		vation:					 Water Level:	Time: 14:25-14:35		
		le Inforr			Moni	toring				
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)				·	cription and Classification	USCS Group Symbol	Remarks
1			0				(0-2") O	Organic topsoil with rust		Rust/N/O
2	1	30"/48"	0				(2"-4') Sand (F)l	trace silt; brown-grey; dry; N/O		
3	2		0					,		N/O; dry
4			0							N/O; dry
5	3	24"/24"	0				(4-6):	SAA; moist at 5'; N/O		N/O; moist
6			0							N/O; wet
								E.O.B. 6 ft bgs		
<u> </u>										
NOTE	S:			<u> </u>					1	<u>I</u>

								SOIL BORIN	NG LOG				
					-7			Project Name: Katzman Recyc		Boring I	D: KTZ-SB-519		
		_	TR					Project Location: Granville, N		Page No			
								Project No.: 432260	Client: Parratt Wolff	1 of 1			
Boring	Locati	on: Katz	zman					Refusal Depth: N/A	Total Depth: 6'	Bore Ho	le ID/OD:		
Weath								Soil Drilled:	Method: Direct push		Size: 2.25"		
Subcor	ntractor	Parratt	Wolff						Protection Level: D		: Macro-Core		
Driller	: PW							Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler	· ID/OD:		
Rig Ty	pe/Mod	lel: Geo	probe 7822 D	Γ				Logged By: RD/AF	Checked By:				
Refere	nce Ele	vation:	N/A					Water Level:	Time: 14:50-15:00				
	Samp	e Infori	mation		Moni	toring							
Oppth (feet bgs)									ription and Classification	USCS Group Symbol	Remarks		
1			0					(0-2'	") Organic topsoil		N/O		
	1		-					(2"-4") Sand (F);tr	race silt; brown-grey; dry; N/O				
2													
3		30 /48	0										
4	2		0										
5			0										
6	3	24"/24"	0					(4-6) \$	SAA; wet at 5'; N/O		N/O; wet		
								F	E.O.B. 6 ft bgs				
NOTE	S:				1								

								SOIL BORI	NG LOG				
								Project Name: Katzman Recy		Boring ID	: KTZ-SB-520		
			TR					Project Location: Granville, N	NY	Page No.			
				-				Project No.: 432260	Client: Parratt Wolff	1 of 1			
Boring	Locati	on: Katz	zman					Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:		
Weathe	er: 30, c	Cloudy						Soil Drilled:	Method: Direct push	Casing Si	ze: 2.25"		
Subcon	itractor	Parratt	Wolff						Protection Level: D	Sampler:	Macro-Core		
Driller:	: PW							Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I			
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:				
Referei								Water Level:	Time: 9:30-9:35				
	Samp	e Infori	nation		Moni	toring							
Depth (feet bgs)	BIC Science Science Co. Denote the contract of							Sample Description and Classification			Remarks		
1			0					(0-9")	Silt; brown; dry; N/O				
	1							, ,	•				
2													
3	2	50 / 10	0					(9"-4') Sand (F); some silt; brown-grey; moist; N/O			N/O		
4	2		0										
5	3	24"/24"	0					(4-6') Sand (F); some	e clay; brown-grey; moist at 5'; N/O		N/O; moist		
									E.O.B. 6 ft bgs				
											ļ		
NOTE	<u>S:</u>			,		1				l			

								SOIL BORIN	NG LOG				
								Project Name: Katzman Recyc		Boring ID	: KTZ-SB-521		
			TO		-			Project Location: Granville, N	Y	Page No.			
			TR					Project No.: 432260	Client: Parratt Wolff	1 of 1			
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:		
Weathe	er: 33, c	Cloudy						Soil Drilled:	Method: Direct push	Casing Siz	ze: 2.25"		
Subcon	tractor	Parratt	Wolff						Protection Level: D	Sampler: 1	Macro-Core		
Driller:	: PW							Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I	D/OD:		
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:				
Refere	nce Ele	vation:	N/A					Water Level:	Time: 8:55-9:15				
	Samp	e Infori	nation		Moni	toring							
Oppth (feet bgs)	DID Sc O.0							Sample Desc	ription and Classification	USCS Group Symbol	Remarks		
1			0					(0-2)	") Organic topsoil		N/O		
2													
		21"/48"											
3	2		0					(2"-4') Sand (F); son	me clay; brown-grey; moist; N/O				
4			0										
5	3	24"/24"	0					(4-6') Clay and	I sand (F); grey; moist; N/O		N/O, clay		
6	5	24 /24	0					F	E.O.B. 6 ft bgs				
\vdash													
NOTE	S:			<u> </u>	<u> </u>			<u> </u>					

								SOIL BORI	NG LOG		
								Project Name: Katzman Recy		Boring ID	: KTZ-SB-522
		_	TS					Project Location: Granville, I		Page No.	
			TR	-				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:
Weath								Soil Drilled:	Method: Direct push	Casing Si	
		: Parratt	Wolff						Protection Level: D		Macro-Core
Driller								Date Started: 3/10/2023	Date Completed: 3/10/2023		D/OD: N/A
		lel: Geo	probe 7822 D7	Γ				Logged By: RD/AF	Checked By:		
		vation:						Water Level:	Time: 11:30-11:45		
		le Infori			Moni	itoring					
Oppth (feet bgs)	DID SS Bull SS 0.0							Sample Desc	cription and Classification	USCS Group Symbol	Remarks
1			0					(0-:		N/O	
2	1	36"/48"	0					(2"-1) Sand	; trace gravel; brown; N/O		N/O
3	2	30 /40	0					(1-4') S an	d (F); brown; moist; N/O		N/O, moist
4			0								
5	3	24"/24"	0					(4-6	') SAA: moist; N/O		
6			0						E.O.B. 6 ft bgs		N/O, moist
									E.O.B. of rogs		
NOTE	<u>S:</u>										

Project Name Extrama Recycling									SOIL BORIN	NG LOG					
Project Location: Katzman											Boring ID): KTZ-SB-523			
Reducation: Katternam			_	TS											
Soil Drilled: Method: Direct pash Casing Size: 2.59"				IL	-										
Soil Drilled: Method: Direct pash Casing Size: 2.59"	Boring	Locati	on: Katz	zman						Total Depth: 6'	Bore Hole	e ID/OD:			
Date Started: 3/10/2023 Date Completed: 3/10/2023 Sampler ID/OD: N/A															
Reference Elevation N/A Nontioning Sample Description and Classification Sample Description and Classification N/O dry	Subcor	ntractor	: Parratt	Wolff						Protection Level: D	Sampler:	Macro-Core			
No dry N	Driller	: PW							Date Started: 3/10/2023	Date Completed: 3/10/2023	Sampler I	D/OD: N/A			
Sample Information	Rig Ty	pe/Mod	lel: Geo	probe 7822 D	Γ				Logged By: RD/AF	Checked By:					
Sample Description and Classification Sample Description Sa	Refere	nce Ele	vation:	N/A					Water Level:	Time: 11:15-11:25					
1		Samp	le Infori	nation		Moni	toring								
1		Sample Number	Penetration/ Recovery (fcet) PID Reading (ppm)				Sample Description and Classification			Remarks					
2 0 (11-2) Silt; some veg; brown; dry; N/O (2-3) Silt w/ fill/plastics; brown; dry; N/O N/O N/O dry 5 3 24*/24* 0 (4-6) SAA; dry-moist; N/O N/O dry 6 E.O.B. 6 ft bgs	1			0					(0-1	") Organic topsoil		N/O dry			
3	2	1		0					(1"-2') Silt; so						
4 0 (3-4) Sand (F); some silt; brown; dry; N/O N/O dry 5	3		36"/48"	0					(2-3') Silt w/ fill/plastics; brown; dry; N/O						
3 24"/24" 0	4	2		0					(3-4') Sand (F)	; some silt; brown; dry; N/O		N/O			
6	5	3	24"/24"	0					(4-6) S	AA; dry-moist; N/O		N/O dry			
	6			0						•		N/O dry			
NOTES.									F	E.O.B. 6 ft bgs					
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								SOIL BORI	NGLOG		
					-7			Project Name: Katzman Recy		Boring 1	D: KTZ-SB-526
		_	TO					Project Location: Granville, N		Page No	
			TR	-				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Ho	ole ID/OD:
Weath								Soil Drilled:	Method: Direct push		Size: 2.25"
		: Parratt	Wolff						Protection Level: D		:: Macro-Core
Driller	: PW							Date Started: 3/9/2023	Date Completed: 3/9/2023		· ID/OD: N/A
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:		
Refere	nce Ele	vation:	N/A					Water Level:	Time: 9:50-10:00		
	Samp	le Infori	nation		Moni	toring					
O Depth (feet bgs)	Sample Number	Lis (a				·	cription and Classification	USCS Group Symbol	Remarks		
1			0					(0-1	") Organic top soil		N/O
	1										- " -
2			0					(1"-2') S	Silt; brown; moist; N/O		
		36"/48"									
3	2		0					(2-4') Sand (F); trace silt; grey; moist; N/O		
4			0								N/O dry
5	3	24"/24"	0					(4-6')	SAA; moist at 4.75'		N/O dry
6			0								Moist at 5'
									E.O.B. 6 ft bgs		
	_										
	_										
NOTE	S:	I		1	1	<u> </u>		L		ı	l

								SOIL BORI	NG LOG_					
								Project Name: Katzman Recy		Boring II	D: KTZ-SB-527			
		_	TO					Project Location: Granville, I		Page No.				
			TR					Project No.: 432260	Client: Parratt Wolff	1 of 1				
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'		e ID/OD:			
Weath								Soil Drilled:	Method: Direct push	Casing S				
		: Parratt	Wolff						Protection Level: D		Macro-Core			
Driller								Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler				
		lel: Geo	probe 7822 D7	Γ				Logged By: RD/AF	Checked By:					
		vation:						Water Level:	Time: 10:10-10:20					
		le Infori			Moni	toring								
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)					·	cription and Classification	USCS Group Symbol	Remarks				
1			0					(0-2	2") Organic top soil		N/O moist			
	1		Ü					(2"-2') \$	Silt; brown; moist; N/O		TVO MOISE			
2		30"/48"	0											
3	2	30 /40	0					(2-4') Sand	(F); some clay; brown clay					
4	2		0								N/O			
5	3	18"/24"	0					(4-6') SAA; moist		N/O moist			
6		10 /2 .	0						, o, s, 1 , 1		I we moust			
									E.O.B. 6 ft bgs					
NOTE	S:	<u> </u>		I						ı	l			

								SOIL BORI	NGLOG		
								Project Name: Katzman Recy		Boring ID): KTZ-SB-528
		_	TO		•			Project Location: Granville, N		Page No.	
			TR					Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 5'	Bore Hole	· ID/OD·
Weath								Soil Drilled:	Method: Direct push	Casing Si	
		: Parratt	Wolff					Bon Brinea.	Protection Level: D		Macro-Core
Driller		. 1 штин	WOIII					Date Started: 3/9/2023	Date Completed: 3/9/2023		D/OD: N/A
		lel· Geo	probe 7822 DT	,				Logged By: RD/AF	Checked By:	Sumprer 2	5,0511,11
		vation:		-				Water Level:	Time: 10:25-10:35		
-		le Infori		1	Moni	toring		Water Leven	11110. 10120 10100		
Oppth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)					Sample Desc	ription and Classification	USCS Group Symbol	Remarks
1			0					(0-1	") Organic topsoil		N/O; dry
1	1		U					(1"-1')	Silt; brown; dry; N/O		N/O, dry
2	•	36"/48"	0								
3	2		0					(1-4') Sand (F); trace silt; grey; moist; N/O		
4			0								
5	3	24"/24"	0					(4-6) \$	SAA (1-4'); moist-wet		N/O moist-wet
6			0						E.O.B. 6 ft bgs		
	_										
	-										
NOTE	<u>S:</u>							l			<u> </u>

								SOIL BORI	NG LOG		
								Project Name: Katzman Rec		Boring ID	: KTZ-SB-529
			TS		-			Project Location: Granville, 1	NY	Page No.	
			TR	-				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:
Weathe	er: 30, c	Cloudy						Soil Drilled:	Method: Direct push	Casing Siz	ze: 2.25"
Subcon	ntractor	: Parratt	Wolff						Protection Level: D	Sampler: 1	Macro-Core
Driller:	: PW							Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I	D/OD: N/A
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:		
Referei	nce Ele	vation:	N/A					Water Level:	Time: 10:40-10:50		
	Sample Information Monitoring										
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)					Sample Des	cription and Classification	USCS Group Symbol	Remarks
1			0					(0-	1") Organic topsoil		N/O
	1		Ü					(1"-1')	Silt; brown; dry; N/O		1,70
2		36"/48"	0								
3	2		0					(1-4') Sand ((F); trace silt; grey; dry; N/O		
4			0	0							N/O Moist
6	3	24"/24"	0					(4-6') Sand (F); trac	e clay; brown-grey; moist-wet; N/O		N/O wet
									E.O.B. 6 ft bgs		
	<u></u>										
NOTE	<u>S:</u>										

							SOIL BO	ORING LOG		
							Project Name: Katzman		Boring ID	: KTZ-SB-530
		Z .	TO				Project Location: Granv		Page No.	
			TR	-			Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz					Refusal Depth: N/A	Total Depth: 6'	Bore Hole	EID/OD:
Weath							Soil Drilled:	Method: Direct push	Casing Siz	
		: Parratt	Wolff					Protection Level: D		Macro-Core
Driller	: PW						Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I	
		lel: Geo	probe 7822 DT	Γ			Logged By: RD/AF	Checked By:		
		vation:					Water Level:	Time: 10:55-11:05		
	Samp	le Infori	nation		Moni	toring				
Oppth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)				Sample	Description and Classification	USCS Group Symbol	Remarks
1			0					(0-1") Organic topsoil		N/O; dry
1	1		U				(1	"-1.5') Silt; brown; dry; N/O		14/0, dry
2	•	36"/48"	0							
3	2	30710	0				(1.5-4') \$	Sand (F)l trace silt; brown; dry; N/O		
4	_		0							
5	3	24"/24"	0					(4-6) SAA; moist-wet; N/O		N/O; wet
6			0					E.O.B. 6 ft bgs		
Nome	g									
NOTE	<u>s:</u>									

								SOIL BORI	NG LOG		
					_			Project Name: Katzman Rec		Boring ID	: KTZ-SB-531
		_	T5					Project Location: Granville,		Page No.	
	1		TR					Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring I								Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:
Weather								Soil Drilled:	Method: Direct push	Casing Siz	
Subcont			Wolff						Protection Level: D		Macro-Core
Driller:								Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I	
		lel: Geo	probe 7822 DT					Logged By: RD/AF	Checked By:	•	
Referen								Water Level:	Time: 11:10-11:20		
	Sampl	e Inforr	nation		Moni	toring					
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)	-				Sample Des	cription and Classification	USCS Group Symbol	Remarks
1			0					(0-	1") Organic topsoil		N/O
1	1		U					(1"-1)	Silt; brown; dry; N/O		IV/O
2	•	36"/48"	0								
3	2	50710	0					(1-4') Sand (F); trace silt; brown; moist; N/O		N/O; moist
4			0								
5	3	24"/24"	0					(4-6) Sand (F); trac	ce silt; brown-grey; moist-wet; N/O		N/O; wet at 5'
6			0								
									E.O.B. 6 ft bgs		

								SOIL BORIN	NG LOG		
					~			Project Name: Katzman Recyc		Boring ID	: KTZ-SB-532
		_	TO					Project Location: Granville, N		Page No.	
			TR					Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole	e ID/OD:
	er: 30, (Soil Drilled:	Method: Direct push	Casing Si	ze:
		: Parratt	Wolff						Protection Level: D		Macro-Core
Driller								Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I	
		lel: Geo	probe 7822 DT					Logged By: RD/AF	Checked By:	•	
		vation:						Water Level:	Time: 11:25		
	Samp	le Infori	nation]	Moni	toring					
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)					Sample Descr	iption and Classification	USCS Group Symbol	Remarks
2	0 0							(0-2') Silt; trace veg; trace sand (F); brown; N/O; moist			N/O
3	2	36"/48"	0					(2-4) Sand (F); tra	ce silt; brown-grey; moist; N/O		N/O; moist
5	3	24"/24"	0					(2	4-6') SAA; dry		N/O; dry
NOTE	2S:										

								SOIL BORI	ING LOG		
	-							Project Name: Katzman Rec		Boring ID	: KTZ-SB-533
		Z .	TS					Project Location: Granville,		Page No.	
			TR	-				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz						Refusal Depth: N/A	Total Depth: 6'	Bore Hole	ID/OD:
		Cloudy						Soil Drilled:	Method: Direct push	Casing Siz	
		: Parratt	Wolff						Protection Level: D		Macro-Core
Driller								Date Started: 3/9/2023	Date Completed: 3/9/2023	Sampler I	
		del: Geo	probe 7822 D7	Γ				Logged By: RD/AF	Checked By:		
		vation:						Water Level:	Time: 11:40-11:50		
		le Infori			Moni	toring					
Oepth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)					Sample Des	scription and Classification	USCS Group Symbol	Remarks
1			0					(0-10)	') Silt; brown; dry; N/O		N/O
2	1	0 0 36"/48"						(10"-4') Sand	I (F); trace silt; dry; grey; N/O		N/O
3	2		0								
4			0								N/O, grey
6	- 3	24"/24"	0					(4-4	6) SAA: moist at 4.5'		N/O; moist
									E.O.B. 6 ft bgs		
	1										
	1										
	1										
]										
<u> </u>	L										
NOTE	S:										

								SOIL BORIN	NG LOG		
					7			Project Name: Katzman Recyc	eling	Boring II	D: KTZ-SB-535
	2	_ _	TR					Project Location: Granville, N	Y	Page No.	
								Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring	Location	on: Katz	man					Refusal Depth: N/A	Total Depth:11'	Bore Hol	e ID/OD:
Weath	er: 32, C	Cloudy						Soil Drilled:	Method: Direct push	Casing S	ze: 2.25"
Subcor	itractor	: Parratt	Wolff						Protection Level: D	Sampler:	Macro-Core
Driller								Date Started: 3/8/2023	Date Completed: 3/8/2023	Sampler	ID/OD:
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ				Logged By: RD/AF	Checked By:		
Refere	nce Ele	vation:	N/A					Water Level: ~6.5'	Time: 13:00-13:15		
	Sample Information Monitoring					toring					
Oppth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)					Sample Descr	ription and Classification	USCS Group Symbol	Remarks
1	1		0								
2	2	36"/48"	0					(0-4) Clay and si		N/O; dry	
3			0								
4	3		0					(4-5	S) Same as above		Moist
5			0								N/O; wet
6	4	40"/48"	0					(5-8) Sand (F)	and clay; brown; wet; N/O		
7	4	40 /46	0								Wet
8			0								
9	5		0					(8-11) Sand (F); a	nd clay; brown-grey; wet; N/O		Wet
10		36"/36"	0								Wet, clay, grey
11								E.C	D.B. at 11 ft bgs		
NOTE	S: Nort	thern-m	ost boring alon	ig woo	dded	area of	f CF	l		<u> </u>	l

							SOIL BORIN	NG LOG		
					-1		Project Name: Katzman Recyc		Boring ID	: KTZ-SB-536
		_ -	TS				Project Location: Granville, N	Ϋ́Υ	Page No.	
			TR				Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring							Refusal Depth: N/A	Total Depth: 12'	Bore Hole	ID/OD:
Weath	er: 31, G	Clear/Su	ın				Soil Drilled:	Method: Direct push	Casing Siz	ze: 2.25"
Subcor	tractor	: Parratt	Wolff					Protection Level: D	Sampler: 1	Macro-Core
Driller	: PW						Date Started: 3/10/2023	Date Completed: 3/10/2023	Sampler I	D/OD: N/A
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ			Logged By: RD/AF	Checked By:		
Refere	ference Elevation: N/A						Water Level:	Time: 10:05-10:35		
	Sample Information Monitoring									
Oppth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)				Sample Desc	ription and Classification	USCS Group Symbol	Remarks
1			0							
2	1	48"/48"	0				(0-3') Gravel; si	lt; debri/fill; brown; dry; N/O		N/O dry
3	2		0							
4			0				(3-4') Silt	; brown-grey; dry; N/O		N/O dry
5	3		0							
6		48"/48"	0				(4-7	7) SAA: dry; N/O		N/O moist
7	4		0							
8			0				(7-8') Silt a	nd clay; grey; moist; N/O		N/O moist
9		0"/24"					No recov	very (attempted twice)		
10										
							E	.O.B. 12 ft bgs		
NOTE	<u>S:</u>			•	•		•			

							SOIL BORIN	NG LOG		
					47		Project Name: Katzman Recy		Boring ID	: KTZ-SB-537
		_ -	TS		-		Project Location: Granville, N	Ϋ́Υ	Page No.	
	Y		TR	-			Project No.: 432260	Client: Parratt Wolff	1 of 1	
Boring		on: Katz					Refusal Depth: N/A	Total Depth: 10'	Bore Hole	ID/OD:
Weath	er: 30, S	Sunny					Soil Drilled:	Method: Direct push	Casing Si	ze: 2.25"
Subcor	itractor	: Parratt	Wolff					Protection Level: D	Sampler:	Macro-Core
Driller	: PW						Date Started: 3/10/2013	Date Completed: 3/10/2023	Sampler I	D/OD:
Rig Ty	pe/Mod	lel: Geo	probe 7822 DT	Γ			Logged By: RD/AF	Checked By:		
Refere	eference Elevation: N/A Sample Information Monitoring						Water Level:	Time: 9:50-10:00		
	Sample Information Monitoring					toring				
Oppth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Reading (ppm)				Sample Desc	ription and Classification	USCS Group Symbol	Remarks
1			0				(0-10") Silt; fi	ll material; brown; dry; N/O		
2	1	24"/24"	0							
3	2		0				(10"-4') Sand	(F); grey-orange; dry; N/O		N/O; dry
4			0							
5	3		0				(4-5)) SAA: moist; N/O		
6		48"/48"	0							
7	4		0				(5-8') Silt and o	lay; brown-orange; dry; N/O		N/O; dry
8			0							
9	5	24"/24"	0				(8-8.3	35) SAA; wet; N/O		
10	3	24 /24	0				(8.5-10) Sand (F);	trace silt; brown-grey; wet; N/O		N/O wet
							E	.O.B. 10 ft bgs		
1										
NOTE	<u>S:</u>	<u> </u>		1	1	<u> </u>	1		1	



APPENDIX C DATA USABILITY SUMMARY REPORTS



APPENDIX D 3-D MODEL OUTPUT APPROXIMATE EXTENTS OF PCB CONTAMINATION IN SOIL

Figure D1	Approximate Extent of PCB Contamination – Elevation 426.5 FT
Figure D2	Approximate Extent of PCB Contamination – Elevation 425 FT
Figure D3	Approximate Extent of PCB Contamination – Elevation 423 FT
Figure D4	Approximate Extent of PCB Contamination – Elevation 421 FT
Figure D5	Approximate Extent of PCB Contamination – Elevation 419 FT
Figure D6	Approximate Extent of PCB Contamination – Elevation 417 FT
Figure D7	Approximate Extent of PCB Contamination – Elevation 415 FT
Figure D8	Approximate Extent of PCB Contamination – Elevation 413 FT
Figure D9	Approximate Extent of PCB Contamination – Elevation 411 FT
Figure D10	Approximate Extent of PCB Contamination – Elevation 409 FT
Figure D11	Approximate Extent of PCB Contamination – Elevation 407 FT
Figure D12	Approximate Extent of PCB Contamination – Elevation 405 FT
Figure D13	Approximate Extent of PCB Contamination – Flevation 403 FT

