FINAL
Remedial Investigation Report
for the
West Sayville Dry Cleaners Site
West Sayville, Suffolk County, New York

Site No. 152200

September 2026

Prepared for:

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List of Abbreviations and Acronyms

bgs	below ground surface
CAMP	Community Air Monitoring Plan
E & E	Ecology and Environment Engineering and Geology, P.C.
DUSR	data usability summary report
EE	Environmental Easement
EPA	(U.S.) Environmental Protection Agency
Eurofins	Eurofins Laboratories of King of Prussia PA
HASP	Health and Safety Plan
ID	inner diameter
IDW	investigation-derived waste
LAWES	Land, Air, Water Environmental Services, Inc.
MDL	method detection limit
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
$\mu g/m^3$	micrograms per cubic meter
mg/L	milligrams per liter
MS	matrix spike
MSD	matrix spike duplicate
ng/L	nanograms per liter
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O&M	operations and maintenance
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PRR	periodic review report
PFAS	per- and polyfluoroalkyl substances
PID	photoionization detector
ppb	parts per billion
QA	quality assurance
QC	quality control
RAO	remedial action objective
RI	Remedial Investigation
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Workplan

List of Abbreviations and Acronyms (cont.)

SAP	Sampling and Analysis Plan
SCDHS	Suffolk County Department of Health Services
SMP	Site Management Plan
SVE	soil vapor extraction
SVOC	semivolatile organic compound
TCE	trichloroethene
TCLP	Toxicity Characteristic Leaching Procedure
TOGS	Technical and Operational Guidance Series
VOC	volatile organic compound

1 Introduction

1.1 Purpose of the Remedial Investigation

Ecology and Environment Engineering and Geology, P.C. (E & E) completed a Remedial Investigation (RI) under contract to the New York State Department of Environmental Conservation (NYSDEC) (Work Assignment Number D009807-30) at the West Sayville Dry Cleaners site (NYSDEC Site No.152200) in the Hamlet of West Sayville, Suffolk County, New York (see Figure 1).

The RI was performed to:

- Assess the presence or absence of volatile organic compounds in groundwater and evaluate the extent of contamination if present; and
- Determine whether nearby residents or businesses are being impacted by intrusion of soil vapor.

1.2 Site Background

1.2.1 Site Description

The West Sayville Dry Cleaners site (the Site) is a NYSDEC Class 2 site located at 61 West Main Street on a 2,860-square-foot parcel and is currently owned by 61 Sayville Corp. The Site consists of a single-story masonry building with a partial basement, which includes a crawlspace area to the north of the basement, and zoned for commercial use. During the time of this investigation, the Site was occupied and operated as a custom furniture workshop; however, it is currently vacant as of the date of this report. The front of the parcel is a concrete sidewalk and curb area, and the rear of the parcel is a grassy area. The Site is bordered by West Main Street to the south, commercial buildings to the west and to the east, and an alley with adjacent residential homes to the north.

1.2.2 Site History/Previous Investigations

The West Sayville Dry Cleaners site was operated as a dry cleaner beginning in the early 1980s and terminating in the mid-2000s. The surface water body nearest to the facility is Green's Creek located about 1,300 feet southeast of the Site. The following section was developed based on the information provided in a December 2006 *Remedial Investigation Workplan* (RIWP) prepared by Berninger Environmental, Inc (BEI) and the subsequent Draft BEI *Comprehensive Remedial Investigation Report* (RIR) prepared in January 2011. The workplan was developed under

an executed Order of Consent dated August 31, 2006, between the NYSDEC Division of Remediation and West Sayville Dry Cleaners and the Comprehensive Remedial Investigation Report details the execution of that workplan.

Soil Investigations

Between September 2000 and August 2002 three soil excavation events were performed at the Site by J.C. Broderick and Associates, which included the removal of approximately 22 55-gallon drums of impacted soils at the rear of the building. Based on the Suffolk County Department of Health Services (SCDHS) records, the excavations failed to fully remove the contaminant source. According to BEI's 2011 RIR, remediation activities included the removal of soil adjacent to a pipe which received flow from an interior floor drain, the area of excavation was indicated to be at the rear exterior of the building adjacent to the rear exit door and extended to the interior of the building partially under the slab-on-grade concrete floor. End point soil sampling collected on August 5, 2002, per SCDHS files, indicated tetrachloroethene (PCE) remained in the soil at a concentration of 6,900 micrograms per kilogram (µg/kg) in one sidewall sample and at a concentration of 590,000 µg/kg in a sidewall sample located under the doorway of the former drycleaner (BEI 2011). A copy of the SCDHS reports is included in Appendix B of the BEI RIWP. A copy of the BEI RIWP and Draft RIR are included as Appendix A of this report.

In March 2010, BEI installed six soil borings at the Site:

- SB-1 was installed on the west side of the drycleaning machine on the first floor of the building and a soil sample was collected from 4 to 6 feet below ground surface (bgs);
- SB-2 was installed between the drycleaning machine and the oil burner and a soil sample was collected from 8 to 10 feet bgs;
- B-3 was installed north of the drycleaning machine and a soil sample was collected from 4 to 6 feet bgs;
- SB-4 and SB-5 were installed behind the building in the vicinity of the former and existing dry wells and septic pools and soil samples were collected from 5 to 7.5 feet bgs and 10 to 12 feet bgs, respectively, and;
- SB-6 was installed within the basement of the building downgradient from the former sanitary pool to confirm that the pool was free of contamination and the sample was collected from10 to 12 feet bgs.

No elevated photoionization detector (PID) readings were observed from borings SB-1 through SB-5 (soil log for SB-6 was not provided), according to Appendix D of BEI's 2011 Draft RIR. The location of the borings can be seen on Figure 6 of BEI's Draft RIR, which is included in Appendix A.

Per Appendix E of BEI's 2011 Draft RIR, none of the six borings advanced indicated detections of the targeted drycleaning chemicals. This was checked by review of the data summary tables provided as Appendix E of the Lab Data Validation

package of BEI's Draft RIR; no other positive detections of VOCs were detected. The only positive detections observed were of 2-butanone and xylenes, which were also present in the laboratory blank. The complete VOC list analyzed in soils was qualified as either not detected above the reported sample quantitation limit, or not detected above the reported sample quantitation limit but with an estimated quantitation limit.

It should be noted that the soil data was compared to the current-at-the-time NYSDEC Technical Guidance for Site Investigation and Remediation (TAGM) Recommended Soil Cleanup Objectives. E & E compare the reporting limits of the 2011 data to the current NYS Part 375 Unrestricted, Commercial and Protection of Groundwater SCOs. In each case the non-detection limit was below the most stringent SCO criteria. This data can be seen in Appendix E of the Lab Data Validation package of BEI's Draft RIR, which is provided in Appendix A of this report.

Soil Gas Investigations

In March 2010, one soil gas sample ("SGPATIO") was collected by BEI in an open patio area immediately adjacent to the former drycleaner near where the drycleaning machines were located. The soil gas results were not discussed in the RIR but review of Appendix E of the Lab Data Validation package of the 2011 BEI RIR revealed dichlorofluoromethane at an estimated concentration of 2.92 micrograms per cubic meter (µg/m^3), carbon disulfide at a concentration of 1.21 µg/m^3, 1,2-dichloroethane at a concentration of 1.21 µg/m^3, trichlorofluoromethane at concentration of 7.31 µg/m^3, n-hexane at a concentration of 8.11 µg/m^3, cyclohexane at a concentration of 0.792 µg/m^3, benzene at a concentration of 4.28 µg/m^3, n-heptane at a concentration of 2.54 µg/m^3, tetrachloroethane at a concentration of 3.05 µg/m^3, toluene at concentration of 33.8 µg/m^3, ethylbenzene at a concentration of 5.30 µg/m^3, styrene at a concentration of 1.75 µg/m^3, xylenes (m-,p-) at a concentration of 16.5 µg/m^3, o-xylene at a concentration of 4.0 µg/m^3, 4-ethyltoluene at a concentration of 1.28 µg/m^3, 1,3,5-trimethylbenzene at a concentration of 1.23 µg/m^3, and 1,2,4-trimethylbenzene at a concentration of 4.82 µg/m^3. A copy of the 2011 BEI RIR, including historic figures and sampling results, is provided in Appendix A.

Groundwater Investigations

As part of the J.C Broderick and Associates investigation between September 2000 and August 2002, it was also noted that PCE was detected at 330 micrograms per liter (µg/L) in groundwater, but the location of the sample is unknown (BEI 2011).

In 2002 BEI installed two soil borings behind the building that were sampled for PCE and trichloroethene (TCE). The following affected site media were identified during the 2002 Investigation:

- Boring GP-1 contained PCE and TCE in groundwater at 56.2 and 7.5 µg/L, respectively.
- Boring GP-2 contained PCE and TCE in groundwater at 275 and 60.8 µg/L, respectively.

In 2005 two piezometers (PZ-1 and PZ-2) were installed in conjunction with the soil vapor extraction (SVE) system as discussed below, no data from these wells were available for review.

In October 2005 (SCDHS) also sampled three monitoring wells within the right-of-way on the south side of West Main Street. The easternmost well (WS-1) was reported to contain PCE up to 15 µg/L, and the western most well contained PCE at 2.4 µg/L. Other VOCs were reported to be present at lower concentrations, this data was not available for review (BEI 2011).

Between October 2005 and January 2011, one additional piezometer was installed by BEI to assess groundwater flow; however, no analytical samples were collected from this piezometer.

In September 2010, in conjunction with the soil borings discussed above, select soil borings that exhibited elevated PID readings were advanced to the water table and groundwater samples were collected. A total of 10 groundwater locations were sampled, of which seven locations were sampled from three vertical depths. GW-1 through GW4, GW-6, and GW-7 were sampled from 14 to 16 feet bgs, 20 to 22 feet bgs, and 30 to 32 feet bgs. These samples were collected from the parking lot located downgradient of the Site. Sample GW-5 was collected from a location in the sidewalk directly in front of the drycleaner building and sampled from 16 to 18 feet bgs, 26 to 28 feet bgs, and 36 to 38 feet bgs. Sample location GW-8 was collected south of the drycleaner equipment inside the building at 10 to 12 feet bgs; GW-9 was collected from outside and in the rear of the drycleaner building near the previously identified drywell from a depth of 12 to 14 feet bgs; and GW-10 was collected beneath the basement of the site building downgradient from the former cesspool at 12 to 14 feet bgs. These sampling locations were all abandoned following sampling.

According to the BEI 2011 RIR, all groundwater samples except GW-3 and GW-6 at 20 to 22 feet bgs were either non-detect or below the NYSDEC standards and guidance values applicable at the time. Sample GW-3 contained PCE at 20 µg/L and sample GW-6 contained PCE at 17 µg/L. Review of the laboratory data tables provided as Appendix E of the Lab Data Validation package of the RIR revealed that cis-1,2,-dichloroethene was detected at a maximum concentration of 3.8 ppb, trichloroethene at a maximum concentration of 2.1 µg/L, vinyl chloride at a maximum concentration of 3.9 µg/L, chloroform at a maximum concentration of 1.3 µg/L, and no other compounds were detected. A copy of the 2011 BEI RIR is provided in Appendix A.

Soil Vapor Extraction System Sampling

An SVE system was installed in 2005 including two vapor extraction wells near the rear portion of the building. These extraction wells were sampled for VOCs via EPA method 601. PCE concentrations in the two vapor extraction wells were observed to range from 396 to nearly 18,500 µg/m^3 (the sampling date is unknown).

On May 16 and 23, 2005 the stack emissions were sampled were reported to contain 12,000 and 370 parts per billion by volume of PCE (BEI 2011).

In March 2010 BEI conducted an SVE system evaluation and two SVE wells (SVE-1 and SVE-2) were installed and sampled via Summa canister. The samples were found to contain PCE at a maximum concentration of 814 µg/m^3 and TCE at a maximum concentration of 15.5 µg/m^3. This was confirmed through review of the laboratory data tables provided as Appendix E of the Lab Data Validation package of the RIR and it was also observed that cis-1,2,-dichloroethene was present at a maximum concentration of 14.0 µg/m^3, chloroform at a maximum concentration of 4.88 µg/m^3, m- and p-xylenes at a maximum concentration of 10.6 µg/m^3, o-xylene at a maximum concentration of 4.34 µg/m^3, and 1,2,4-trimethylbenzene at a maximum concentration of 6.49 µg/m^3. A copy of the 2011 BEI RIR is provided in Appendix A.

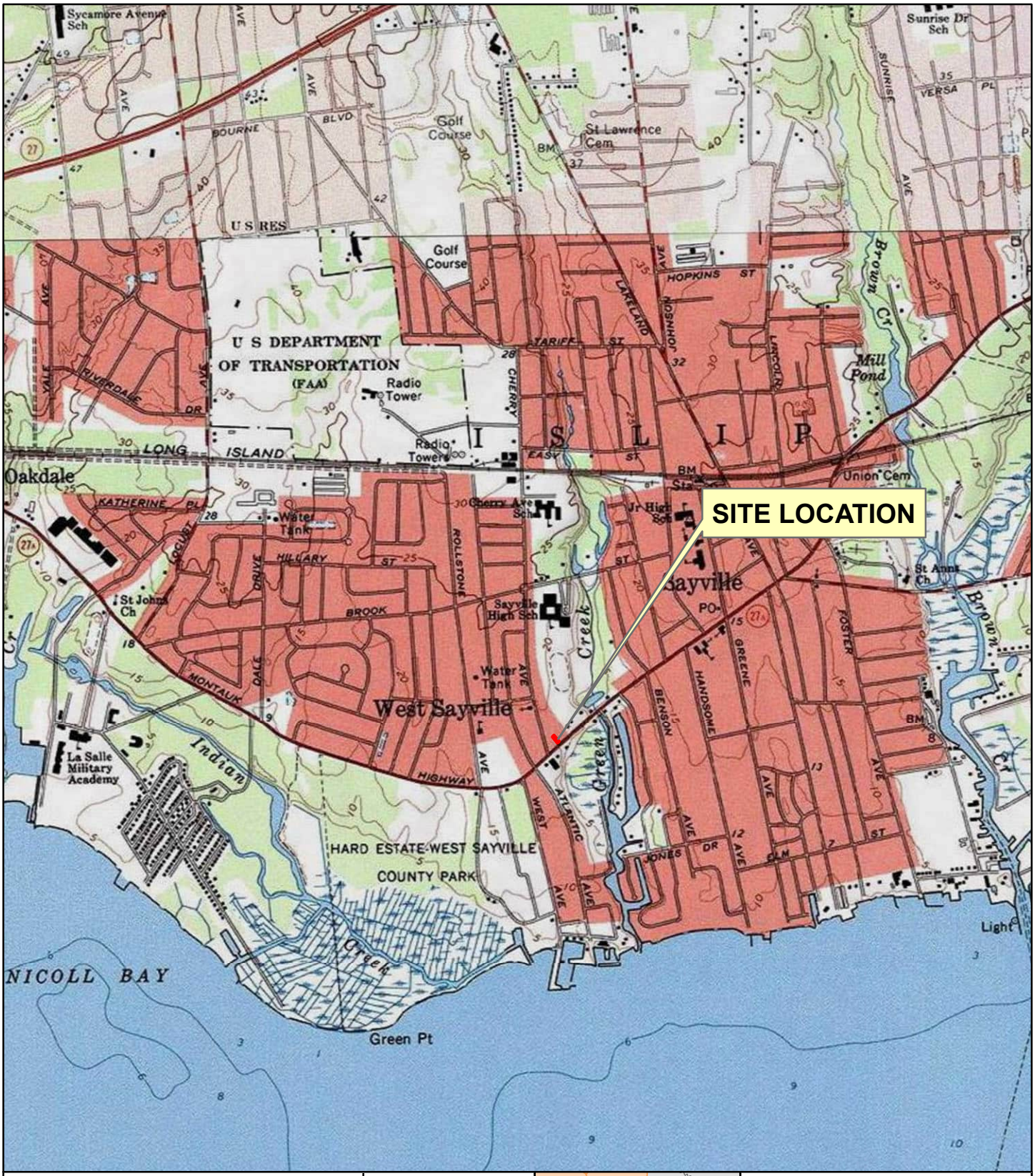
The SVE system is no longer active, and the termination date of active extraction is unknown, but later than March 2010.

Indoor Air and Sub Slab Sampling

Indoor air sampling was performed by the SCDHS in November 2005 at an adjoining property. PCE concentrations ranged from 539 to 721 µg/m^3 and TCE ranged from 4.0 to 124 µg/m^3 (BEI 2011).

In March 2010, BEI collected four indoor air samples (BBGIA-10, DDRIA-10, SRCIA-10, and FIRE IA-10) from the buildings adjacent to and near the former drycleaners. All samples were collected with 24-hour Summa canisters. The analytical results indicated no detections of compounds typically associated with drycleaner operations from FIREIA-10. BBGIA-10 showed PCE at a concentration of 2.98 µg/m^3 with all other compounds not detected. SRCIA-10 exhibited concentrations of PCE at 3.25 µg/m^3 with all other compounds not detected. DDRIA-10 indicated PCE at a concentration of 45 µg/m^3 with all other compounds either not detected or below the NYSDOH guidance value of 100 µg/m^3 in place at the time. It should be noted that the sub-slab sample from DDRSS-10 indicated PCE at 28 µg/m^3, which is lower than the indoor air sample (DDRIA-10). BEI identified an exhaust fan from the SVE stack or the drycleaning machines as the likely source of PCE in the indoor air and impacting indoor air samples, as the air conditioning ducts at one off-site building were later identified to be intaking vapors from the former drycleaners vent and SVE stack. At the time BEI recommended that “reasonable mitigation efforts should include extending the height of the stack from the drycleaning roof and rerouting the vapors so that the emissions migration will no longer enter into the presented pathways”. No additional information regarding actions implemented were available for review after the submittal of the 2011 RIR, and it is unknown if any actions were taken to address discharge from the SVE stack. However, it should be noted that the SVE system is no longer in operation, and as such, no remedial actions to address changes to the system are warranted.

Four sub-slab samples (BBGSS-10, DDRSS-10, SRCSS-10, and FIRE SS-10) were collected in conjunction with the indoor air samples as discussed above, each sample was collected with a 24-hour Summa canister. The sub-slab results were not discussed in the RIR but review of Appendix E of the Lab Data Validation package of the RIR revealed dichlorofluoromethane at a maximum concentration of 2.72 µg/m^3, trichlorofluoromethane at maximum concentration of 2.36 µg/m^3, n-hexane at a maximum concentration of 33.4 µg/m^3, cyclohexane at a maximum concentration of 4.99 µg/m^3, 2,2,4-trimethylpentane at a maximum concentration of 4.76 µg/m^3, benzene at a maximum concentration of 6.71 µg/m^3, n-heptane at a maximum concentration of 6.43 µg/m^3, toluene at a maximum concentration of 11.2 µg/m^3, ethylbenzene at a maximum concentration of 3.65 µg/m^3, styrene at a maximum concentration of 1.75 µg/m^3, m- and p-xylenes at a maximum concentration of 11.3 µg/m^3, o-xylene at a maximum concentration of 15.5 µg/m^3, 4-ethyltoluene at a maximum concentration of 6.05 µg/m^3, 1,3,5-trimethylbenzene at a maximum concentration of 7.37 µg/m^3, and 1,2,4-trimethylbenzene at a maximum concentration of 31.8 µg/m^3. A copy of the 2011 BEI RIR, including historic figures and sampling results, is provided in Appendix A.



Site Location

Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

Coordinate System: NAD 1983 StatePlane New York Long Island FIPS 3104 Feet

April 2024

Figure 1
Site Location Map

West Sayville Dry Cleaners Site
61 West Main Street
West Sayville, New York

NEW YORK STATE Department of Environmental Conservation

ecology and environment engineering and geology, p.c.

0 1,000 2,000 Feet

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C:\Users\USRM682717\Desktop\WSP\04_GIS TEMP\NYDEC\West Sayville DC\2023_SiteClosure Figure 1 - Site Location Map.mxd;

2 Remedial Investigation Activities

The RI activities related to the West Sayville Dry Cleaners site included a scoping session (via teleconference) and initial site visit; DEC document review; groundwater monitoring well installation and groundwater sampling programs; soil gas sampling and soil vapor intrusion investigation; surveying and mapping programs; investigation-derived waste (IDW) management; and report preparation.

Primary field activities were conducted by an E & E field team consisting of a geologist/field team leader and a site safety officer/sampling technician. The field effort included:

- Installing four sets of three, 1-inch inside diameter (ID), nested, permanent, groundwater monitoring wells (MW-01A through MW-04C);
- Collecting groundwater samples from newly installed groundwater monitoring wells MW-01A through MW-04C;
- Collecting sub-slab vapor, indoor air, and ambient air samples (BAR-IA01 – BAR-IA02, BAR-SS01, BAR-AA01, MFD-IA01, MFD-IA02, and MFD-SS01) from inside the former dry cleaner building and nearby properties;
- Installing a temporary soil gas point (SG-1) in the alley, located west of and adjacent to the former dry cleaner building;
- Collecting soil gas sample from SG-1; and
- Attempted location of previously installed piezometers (PZ1A and PZ2B).

All RI field activities were performed in accordance with the Sampling and Analysis Plan (SAP) for the RI at the West Sayville Dry Cleaners site developed by E & E (E & E 2023) and approved by NYSDEC in March 2023. A change in the groundwater sampling method from that identified in the SAP occurred as a result of a discrepancy between the initial scope of work and the SAP. This variation was reported to NYSDEC. The SAP proposed that samples would be collected via bladder pumps equipped with dedicated polyethylene bladders and tubing. Early discussions with NYSDEC and the initial scope of work indicated that peristaltic pumps would be used. Field samples were collected via peristaltic pumps, which was considered an appropriate method and more efficient than small-diameter bladder pumps.

Samples for analysis of per- and polyfluoroalkyl substances (PFAS) were collected in accordance with NYSDEC's most recent guidance (NYSDEC 2023).

Additionally, A PID investigation of soil was performed on June 26, 2024 and soil sampling was performed in October 2025 by a NYSDEC field team.

2.1 Site Reconnaissance and Historical Records Review

Prior to development of the SAP, a site reconnaissance was conducted at the Site on January 24, 2023, which included both NYSDEC and E & E representatives. The main purpose was to identify sampling locations. In addition, NYSDEC and E & E spoke with property owners regarding field activities.

NYSDEC provided E & E with copies of pertinent historical site investigation reports for review, including the following:

- Remedial Investigation Work Plan for West Sayville Dry Cleaners, 61 West Main Street, West Sayville, New York, prepared by Berninger Environmental, Inc., December 2006.
- Comprehensive Remedial Investigation Draft for West Sayville Dry Cleaners, 61 West Main Street, West Sayville, New York, prepared by Berninger Environmental, Inc., January 2011.

The site reconnaissance observations are summarized below:

- The site consists of one masonry building with a partial basement occupying approximately 2,860 square feet in a suburban area.
- The building was no longer in use as a drycleaner and was occupied by a commercial business at the time of the inspection.
- The rear of the building opens to a storage area and small yard.
- The site is bordered by commercial properties to the west and to the east.

2.2 Field Activities

Drilling tasks were conducted by Land, Air, Water Environmental Services, Inc. of Moriches, New York (LAWES), under the supervision of a two-person E & E field team. Prior to initiating intrusive subsurface activities, E & E and LAWES coordinated with site personnel and the Underground Facilities Protection Organization to identify and locate underground utilities in accordance with New York State Code Rule 753. A Site plan showing the locations of the monitoring wells, indoor air and sub-slab sample locations, the soil gas sample location and other pertinent Site features can be seen as Figure 2.

2.2.1 Health and Safety Monitoring

During the field investigation, the health and safety officer performed air monitoring to characterize concentrations of potential airborne vapors, including volatile organic vapors, and particulates. The air monitoring was conducted in accordance

with E & E's approved Community Air Monitoring Plan (CAMP) for the protection of site workers and the community (E & E 2023). Action levels were detailed in the CAMP and the site-specific Health and Safety Plan (HASP). Levels of organic vapors were measured downwind in the general vicinity of each intrusive sampling location using a properly calibrated MiniRae 3000 PID equipped with a 10.6 electron volt lamp, and particulate matter was measured with a DustTrak2 Desktop Monitor, as well as at each intrusive location (e.g., at the top of the boreholes). The measurements were taken to determine the worst-case concentrations and provide the earliest possible warning of any potential hazardous condition. Organic vapors and particulate matter were detected at several locations, but all below the action levels established in the CAMP.

In accordance with the site-specific HASP, appropriate personal protective equipment was worn by site workers while performing intrusive activities for protection against contamination and to prevent cross contamination between sampling locations.

2.2.2 Subsurface Soil Boring Advancement/Direct-Push Soil Lithology Investigation

Continuous soil cores were collected at one location (MW-01) immediately southeast of the former dry cleaner building. The purpose of the soil core was to define the lithology underlying the Site and to assess whether the proposed screen placements for the proposed permanent monitoring wells would need to be altered based on specific field conditions.

Hand clearing for utilities was performed from ground surface to 5 feet below ground surface (bgs) and then the Macro-Core system was used to collect discrete, continuous soil cores in 5-foot-long dedicated acetate liners from 5 feet to a maximum depth of 50 feet bgs. Upon retrieval, each Macro-Core acetate liner was cut longitudinally, and the E & E field geologist recorded pertinent soil characteristics and screened the headspace above the soil for organic vapors using a PID; no elevated PID readings were observed within the boring. There were no PID readings above background in the soil headspace. The soil boring log with PID screening values is provided in Appendix B.

No PID detections were observed from ground surface to the end of the borehole at 50 feet bgs and the lithology was observed to be brown to tan, medium to coarse-grained sand with trace to little medium to coarse gravel.

It should be noted that no soil samples were collected; this soil core was advanced for soil lithology only.

2.2.3 Monitoring Well Installation

Following the completion of the borehole advancement as discussed in Section 2.2.2, twelve (12) permanent, 1-inch-ID monitoring wells (MW-1A through MW-1C, MW-2A through MW-2C, MW-3A through MW-3C, and MW-4A through MW-4C) were installed as a cluster of three wells each at four locations. The wells

were screened at 10 to 15 feet bgs (interval "A"), 25 to 30 feet bgs (interval "B"), and 45 to 50 feet bgs (interval "C").

The wells were advanced via hollow-stem auger drilling methods utilizing 4-1/4-inch ID augers. Following placement of the polyvinyl chloride screens and risers, the annulus was then backfilled within No. 1 Morie sand from total depth to eight feet bgs, with the exception that bentonite pellet seals which were placed between each screen interval at 19 to 21 and 41.5 to 43.5 feet bgs to separate the screened intervals. The remainder of each borehole was finished with 3 feet of bentonite and 4 feet of cement-based grout. The surface at each location was then completed with an 8-inch-diameter flush-mounted manhole set into a 2-foot by 2-foot concrete apron. Well construction diagrams are provided in Appendix C. Drill cuttings and decontamination water from these boreholes were containerized and managed as IDW as discussed in Section 2.5.

2.2.4 Monitoring Well Development

The E & E field team developed the 12 newly installed groundwater monitoring wells (MW-1A through MW-1C, MW-2A through MW-2C, MW-3A through MW-3C, and MW-4A through MW-4C) between May 23 and May 26, 2023 using a Waterra pump. Temperature, pH, conductivity, and turbidity measurements were recorded to monitor the progress of the development process. Each well was considered to be developed after the removal of three or more well volumes (as collected and measured from 5-gallon buckets), and the stabilization of all recorded parameters.

Development purge water was containerized and managed as IDW as discussed in Section 2.5. A well development summary is provided as Table 2-1, and the well development records are presented in Appendix D.

2.2.5 Monitoring Well Groundwater Sampling

One round of groundwater sampling was performed by E & E on June 20, 2023, for newly installed wells (MW-1A through MW-1C, MW-2A through MW-2C, MW-3A through MW-3C, and MW-4A through MW-4C). Prior to purging and sampling the monitoring wells, static water levels were measured and used to determine the volume of standing water in each well. A groundwater elevation summary is provided as Table 2-2.

Prior to well sampling, static groundwater measurements and total depths were obtained using an electronic water level indicator capable of measuring depth to water to within 0.01 foot. The probe of the instrument was lowered slowly until the indicator alarm sounded, the probe was pulled above the surface of the water, and the measurement was repeated at least three times to ensure accuracy. After the well cap was removed, each well was allowed to equilibrate prior to static water level measurement. The depth-to-water measurements were referenced from the top of each well's inner casing either from previously marked reference points or the highest point on the top of the inner casing of each well. After use, the water level indicator was decontaminated by rinsing with distilled or deionized water.

E & E purged and sampled the wells as outlined in the work order letter dated January 2, 2023. Peristaltic pumps were used to minimize volatilization and dedicated tubing was used for each well, and then left inside the well following the sampling event. At each location temperature, pH, conductivity, and turbidity measurements were recorded throughout the well-purging process and immediately prior to sampling. Purging was continued until all the groundwater quality parameters were stable for three consecutive readings, and at least three complete well volumes plus the length of the tubing was purged from the wells. This was determined by measuring the groundwater collected in 5-gallon buckets.

Upon stabilization of parameters, groundwater samples were collected, and the sample containers were labeled and immediately placed in a cooler with ice. All samples were submitted to Eurofins Laboratories of King of Prussia PA (Eurofins) for the following analyses:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (EPA) SW-846 Method 8260D.

In addition, groundwater samples from three selected wells (MW-2A, MW-1B, and MW-3B) were submitted for additional analytical parameters. The SAP called for sampling of previously existing piezometer PZ-2B for the additional parameters; however, E & E personnel made several attempts to locate this well and were unable to do so. As such, MW-2A was sampled in place of PZ-2B.

- Semivolatile organic compounds (SVOCs) by EPA SW-846 Method 8270E;
- 1,4-Dioxane by EPA SW-846 Method 8270E-SIM;
- PFAS by EPA Method 1633;
- Metals by EPA SW-846 Method 6020D;
- Mercury by EPA SW-846 Method 7470A;
- Hexavalent chromium by EPA SW-846 Method 7196A;
- Pesticides by EPA SW-846 Method 8081B;
- PCBs by Method SW-846 EPA 8082A; and
- Herbicides by EPA SW-846 Method 8151A.

Quality assurance/quality control (QA/QC) samples, including one duplicate, one matrix spike/matrix spike duplicate, and one rinsate blank were collected in accordance with the SAP (E & E 2023) and Quality Assurance Project Plan (E & E 2020). In addition, one trip blank per shipping cooler was included for VOC analysis. Upon collection, the sample containers were labeled and immediately placed in a cooler maintained with ice at approximately 4° Celsius.

Due to a miscommunication between E & E personnel and Eurofins personnel, the cooler containing the samples was delivered after the short, 24-hour holding time

for hexavalent chromium had expired. The samples were analyzed, no hexavalent chromium was detected, but the data was flagged as unusable in the data validation report. It should be noted that hexavalent chromium is not a contaminant of concern at this site.

Table 2-3 summarizes sample dates and sampling parameters collected. The well purge and sample records are presented in Appendix E. Purged groundwater was containerized and handled as IDW as discussed in Section 2.5.

2.2.6 Vapor Intrusion Investigation

At the request of the New York State Department of Health (NYSDOH), vapor intrusion sampling (sub-slab, indoor air, and outdoor air) was proposed to be conducted at the Site and in its vicinity. Due to property access restriction, soil vapor intrusion sampling was performed only at one off-site property (Property 1).

On April 4, 2023, E & E conducted a building inspection and materials inventory from the former dry cleaners building and Property 1. During this survey E & E personnel evaluated the building construction and completed an indoor air quality questionnaire and building inventory form for each building. An inventory of materials and equipment stored in accessible areas in the basement and on the first floor of each building was also performed. Volatile materials were documented and photographed and then recorded on the inventory form. At each location the containers were scanned with a RAE Systems ppb RAE PID for potential vapor emissions. The Structure Sampling Questionnaire and Building Inventory for each property is included in Appendix F.

E & E personnel collected one sub-slab soil vapor sample (MFD-SS01), and two indoor air samples (MFD-IA01 and MFD-IA02) from the former dry cleaners building, and one sub-slab soil vapor sample (BAR-SS01) and two indoor air samples (BAR-IA01 and BAR-IA02) from Property 1. One ambient outdoor air sample (BAR-AA01) was collected upwind of the buildings concurrently with the other samples. The samples were collected in accordance with NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH 2006). All of the sub-slab vapor and air samples were collected via Summa® canisters with a 24-hour sample regulator. E & E intended to use 8-hour sample canisters but was unable based on the canister availability from the lab. Ambient air samples were collected at approximate breathing zone heights. The sub-slab vapor samples were collected via VaporPin® sampling ports installed in holes drilled through the concrete slabs of each basement. A vacuum with a high efficiency air purifying filter was used to clean the area around the drilled hole as the drilling occurred. A low-flow air sampling pump (SKC sampling pump) was used to purge a minimum of three volumes of air from the sample tubing before sampling. A water dam and pressure leak test were implemented at each location to verify a competent seal through the floor and leak-free tubing connections before the sub-slab vapor sample was collected. Hydraulic cement was used to patch the drill holes after sampling

was completed. All vapor and air samples were analyzed for VOCs by U.S. Environmental Protection Agency (EPA) Method TO-15 by Eurofins. Table 2-3 summarizes the sampling parameters.

2.2.7 Soil Gas Investigation

To gain a better understanding of possible soil vapor impacts to structures around the West Sayville Dry Cleaners site, one subsurface soil boring was advanced to the west of and adjacent to the former dry cleaner building at 61 West Main Street for the purpose of collecting a soil gas sample (SG-1). Two sample locations were initially proposed; however, access restrictions prevented the collection of sample SG-2. The soil boring location is shown on Figure 2.

This soil boring was done in conjunction with the off-site groundwater investigation utilizing the same direct-push drilling rig utilized for the soil boring as discussed in Section 2.2.2. The sample was collected using a soil vapor point and a stainless-steel screen. The soil vapor point and screen was advanced to a depth of 10 feet bgs which was approximately equivalent to the depth of the basement foundation. A gravel pack was placed around the screen and a seal was placed to 6 inches above the screen, then the boring was completed with bentonite to the surface. A Summa® cannister fitted with a 2-hour regulator, was then connected to the tubing. A helium shroud was installed over the sample location and a helium leak detection test was performed to check the seal and confirm surface air was not being drawn into the sample. Three volumes of soil gas were purged from the tubing prior to sampling and screened with a properly calibrated PID. A maximum VOC concentration of 375 ppb was observed from the purged vapors. After leak testing had confirmed that no leak was present and the tubing was purged, the sample was collected for VOC analysis using EPA Method TO-15.

Following sampling, the borehole was backfilled with bentonite, and the ground surface was patched to match existing grade conditions.

2.3 Laboratory Analysis

Eurofins performed all laboratory analyses. Field QC samples are discussed in Section 4. Laboratory data were reported with full data package (Category B) and EQuIS electronic data deliverable.

2.4 Site Survey

A survey crew from WSP USA, Inc. performed the site survey on August 16, 2023. Surveying included setting a benchmark at the site, as well as measuring the horizontal locations and vertical elevations of all newly installed groundwater monitoring wells and the soil gas sampling point. Horizontal control for the site benchmark was established in the New York State Plane Coordinate System, Long Island Zone (feet), adjusted North American Datum of 1983 (NAD83 [2011]) to an accuracy of ±0.5 foot. The vertical control for the site benchmark was established to the nearest ±0.01 foot relative to the North American Vertical Datum of 1988 (NAVD88).

2.5 Investigation-Derived Waste Handling

Nine 55-gallon drums of soil and four 55-gallon drums of water were generated during fieldwork. Soil was generated from subsurface drilling and water was generated from monitoring well development and purging, as well as equipment decontamination. The 55-gallon steel drums were sealed and labeled, then temporarily stored in the fenced parking area adjacent to the Fire Department in a location dictated by the fire department personnel. The personal protective equipment was disposed of in the general trash stream.

Waste classification samples were collected by E & E personnel as composite samples from the soil drums and the water drums. Soil sample WC-01 was collected for toxicity characteristic leaching procedure (TCLP) VOCs, TCLP Metals, PCBs, and pH, and the water sample WC-GW was collected for Target Compound List VOCs, Target Analyte List Metals, and pH. The samples were submitted to Eurofins for analysis.

Soil waste sample WC-01 results revealed the following detections in the TCLP extract: 0.556 milligrams per liter (mg/L) of barium; an estimated 0.0045 mg/L of cadmium; 0.413 mg/L of lead; and 0.00034 mg/L of mercury. The pH was 7.4 standard units and the temperature of the water was 23.4 degrees Celsius. All other parameters were not detected.

The groundwater waste sample WC-GW contained carbon disulfide at 2.8 µg/L, methyl ethyl ketone (2-butanone) at an estimated 2.5 µg/L, barium at 79.9 µg/L, calcium at 38,400 µg/L, cobalt at an estimated 1.8 µg/L, iron at 632 µg/L, magnesium at 4180 µg/L, manganese at 414 µg/L, nickel at an estimated 3.1 µg/L, potassium at 6,150 µg/L, sodium at 45,100 µg/L, and zinc at an estimated 9.3 µg/L. All other parameters were not detected. Table 2-4 summarizes the waste classification analytical results.

E & E forwarded the IDW analytical results along with the groundwater sampling results to the waste transportation company (Innovative Recycling Technologies). All of the waste was determined to be non-hazardous with agreement by NYSDEC. The analytical results for the IDW samples are presented on Tables 2-4a and 2-4b, and can be seen in Eurofins laboratory report J282859 included in Appendix G.

The IDW was picked up on August 18, 2023. Copies of the non-hazardous waste manifest and the signed generator waste profile sheets are provided in Appendix H.

2.6 NYSDEC Soil Assessments

2.6.1 PID Assessment

On June 26, 2024, NYSDEC staff inspected the alleyway that terminates near the northwest corner of the site building. A grid with dimensions approximately 4 by 8 feet was established around soil gas sampling location SG-1. A rod was driven into the soil up to 16 inches deep at 22 locations and a PID was used to screen the holes. At three locations where PID readings were observed near the surface, a

hand auger was used to collect deeper samples at 2 to 4 feet below grade and the soil headspace was screened with a PID. No readings were observed in the deeper samples and shallow detections were determined to be within background. See Appendix J for additional details.

2.6.2 October 2025 Soil Sampling

On October 14, 2025, NYSDEC staff performed a soil assessment at the north-west corner of the site building. Seven surface soil samples, SS1-A to SS7-A, were collected from a depth of 0 to 6 inches. Additional subsurface soil samples were collected from a depth of 6 to 12 inches at locations SB1-B to SB7-B and deeper samples were collected at 4.5 or 5 feet below grade at three locations, SB1-C to SB3-C. All of the samples were collected using a hand auger and submitted for the following chemical analyses:

- VOCs by EPA Method 8260.
- Semivolatile organic compounds (SVOCs) by EPA Method 8270;
- Metals including mercury by EPA Method 6010 / 7470;
- Total cyanide by EPA Method 9010;
- Pesticides by EPA Method 8081;
- PCBs by EPA Method 8082;
- PFAS by EPA Method 1633; and
- 1,4-Dioxane by EPA SW-846 Method 8270 SIM.

Field QC samples included two duplicates and an equipment blank. The samples were submitted to Pace Laboratories of East Longmeadow, Massachusetts for analysis. See Appendix K for additional details.

Table 2-1 Well Development Summary, West Sayville Dry Cleaners Site
West Sayville, Suffolk County, New York

Well ID	Date	Volume (gallons)	pH (s.u.)	Temperature (°C)	Conductivity (µS/cm)	Turbidity (NTUs)
Well Development						
MW-01A	5/24/2023	6.2	6.25	18.71	0.738	11.9
MW-01B	5/24/2023	4.3	6.60	18.92	0.440	11.5
MW-01C	5/24/2023	6.7	5.60	19.09	0.461	0.2
MW-02A	5/24/2023	5.8	6.60	19.92	0.844	21.8
MW-02B	5/24/2023	3.8	5.84	20.12	0.352	5.3
MW-02C	5/24/2023	5.6	5.33	19.72	0.512	0.6
MW-03A	5/23/2023	5.5	6.84	18.92	1.490	40.6
MW-03B	5/23/2023	4.6	6.52	18.97	0.603	9.1
MW-03C	5/23/2023	6.7	6.34	18.61	0.898	5.8
MW-04A	5/23/2023	10.6	7.23	18.85	1.880	30
MW-04B	5/23/2023	6.8	6.70	20.15	0.723	11.1
MW-04C	4/23/2021	7.7	6.70	20.50	0.672	8.7

Note: final water quality measurements provided.

Key:

ft bgs = feet below ground surface

s.u. = standard units

°C = Degress Celsius

µS/cm = MicroSiemens per centimeter

NTU = Nephelometric turbidity units.

Source: Ecology and Environment Engineering and Geology, P.C. 2023

Table 2-2 Groundwater Elevation Summary, West Sayville Dry Cleaners Site
West Sayville, Suffolk County, New York

Well ID	TOC Elevation[1]	Ground Elevation[1]	Screen Interval[2]	Top of Screen Elevation[3]	Bottom of Screen Elevation[3]	Depth to Water[4]	Groundwater Elevation[5]
MW-01A	11.25	11.74	10.0 - 15.0	1.25	-3.75	8.70	2.55
MW-01B	11.19	11.74	25.0 - 30.0	-13.82	-18.82	8.64	2.55
MW-01C	11.30	11.74	45.0 - 50.0	-33.70	-38.70	8.76	2.54
MW-02A	10.96	11.46	10.0 - 15.0	0.96	-4.04	8.42	2.54
MW-02B	10.96	11.46	25.0 - 30.0	-14.05	-19.05	8.42	2.54
MW-02C	10.88	11.46	45.0 - 50.0	-34.12	-39.12	8.34	2.54
MW-03A	9.81	10.36	10.0 - 15.0	-0.20	-5.20	7.80	2.01
MW-03B	9.72	10.36	25.0 - 30.0	-15.28	-20.28	7.80	1.92
MW-03C	9.69	10.36	45.0 - 50.0	-35.31	-40.31	7.50	2.19
MW-04A	9.90	10.63	10.0 - 15.0	-0.10	-5.10	7.87	2.03
MW-04B	9.95	10.63	25.0 - 30.0	-15.05	-20.05	7.93	2.02
MW-04C	9.82	10.63	45.0 - 50.0	-35.18	-40.18	7.89	1.93

Notes:

[1] All elevations are reported in feet above mean sea level.

[2] Screen interval measurements reported in feet below ground surface.

[3] Screen elevations derived using well survey data and well construction details.

[4] Depth to water measured in feet below the top of well casing.

[5] Groundwater elevations derived using well survey data and depth to water measurements.

Source: Ecology and Environment Engineering and Geology, P.C. 2023

Table 2-3 Sampling Parameters Summary, West Sayville Dry Cleaners Site
West Sayville, Suffolk County, New York

Sample ID	Sample Date	Depth (feet)	Matrix	VOCs	SVOCs	PCBs	Pesticides/ Herbicides	Metals, Mercury + Cr^{6+}	PFAS	1,4-Dioxane	TO-15	Quality Control Samples
Groundwater												
MW-1A	6/20/2023	12.5	WG	●	--	--	--	--	--	--	--	
MW-1B	6/20/2023	27.5	WG	●	●	●	●	●	●	●	--	Duplicate (DUP01)
MW-1C	6/20/2023	47.5	WG	●	--	--	--	--	--	--	--	
MW-2A	6/20/2023	12.5	WG	●	●	●	●	●	●	●	--	MS/MSD
MW-2B	6/20/2023	27.5	WG	●	--	--	--	--	--	--	--	--
MW-2C	6/20/2023	47.5	WG	●	--	--	--	--	--	--	--	--
MW-3A	6/20/2023	12.5	WG	●	--	--	--	--	--	--	--	--
MW-3B	6/20/2023	27.5	WG	●	●	●	●	●	●	●	--	--
MW-3C	6/20/2023	47.5	WG	●	--	--	--	--	--	--	--	--
MW-4A	6/20/2023	12.5	WG	●	--	--	--	--	--	--	--	--
MW-4B	6/20/2023	27.5	WG	●	--	--	--	--	--	--	--	--
MW-4C	6/20/2023	47.5	WG	●	--	--	--	--	--	--	--	--
FB-01	6/20/2023	NA	WQ	●	●	●	●	●	●	●	--	--
TB-01	6/20/2023	NA	WQ	●	--	--	--	--	--	--	--	--
Soil Gas												
SG-1	5/15/2023	10	GS	●	--	--	--	--	--	--	●	Duplicate (DUP-01)
Subslab Soil Vapor and Ambient Air												
MFD-SS01	4/4/2023	0.5	AS	--	--	--	--	--	--	--	●	--
MFD-IA01	4/4/2023	2.5 to 3.0*	AI	--	--	--	--	--	--	--	●	--
MFD-IA02	4/4/2023	2.5 to 3.0*	AI	--	--	--	--	--	--	--	●	--
BAR-SS01	4/4/2023	0.5	AS	--	--	--	--	--	--	--	●	--
BAR-IA01	4/4/2023	2.5 to 3.0*	AI	--	--	--	--	--	--	--	●	--
BAR-IA02	4/4/2023	2.5 to 3.0*	AI	--	--	--	--	--	--	--	●	--
BAR-AA01	4/4/2023	2.5 to 3.0*	AO	--	--	--	--	--	--	--	●	--

Key:

AI = indoor ambient air, SVI
AO = outdoor ambient air
AS = subslab soil vapor, SVI
Cr^{6+} = hexavalent chromium
FB = Field Blank
GS = soil gas
MS/MSD = Matrix Spike/ Matrix Spike Duplicate
N/A = Not Applicable
PCBs = polychlorinated biphenyls
PFAS = per- and polyfluoroalykl substances
TB = Trip Blank
WG = groundwater
WQ = water quality control
* Represents height above ground surface

Source: Ecology and Environment Engineering and Geology, P.C. 2023

Table 2-4a Analytical Results Summary for Waste Characterization Water Samples
West Sayville Dry Cleaners Site, West Sayville, New York

Analyte	Sample ID: / Sample Type: / Date:	WC-GW / Wastewater / 06/20/23
Volatile Organic Compounds by Method SW8260D (µg/L)		
1,1,1-Trichloroethane		< 1.0
1,1,2,2-Tetrachloroethane		< 1.0
1,1,2-Trichloro-1,2,2-Trifluoroethane		< 1.0
1,1,2-Trichloroethane		< 1.0
1,1-Dichloroethane		< 1.0
1,1-Dichloroethene		< 1.0
1,2,3-Trichlorobenzene		< 1.0
1,2,4-Trichlorobenzene		< 1.0
1,2-Dibromo-3-Chloropropane		< 1.0
1,2-Dibromoethane (Ethylene Dibromide)		< 1.0
1,2-Dichlorobenzene		< 1.0
1,2-Dichloroethane		< 1.0
1,2-Dichloropropane		< 1.0
1,3-Dichlorobenzene		< 1.0
1,4-Dichlorobenzene		< 1.0
1,4-Dioxane (P-Dioxane)		< 50
2-Hexanone		< 5.0
Acetone		< 5.0
Benzene		< 1.0
Bromochloromethane		< 1.0
Bromodichloromethane		< 1.0
Bromoform		< 1.0
Bromomethane		< 1.0
Carbon Disulfide		**2.8**
Carbon Tetrachloride		< 1.0
Chlorobenzene		< 1.0
Chloroethane		< 1.0
Chloroform		< 1.0
Chloromethane (Methyl Chloride)		< 1.0
Cis-1,2-Dichloroethylene		< 1.0
Cis-1,3-Dichloropropene		< 1.0
Cyclohexane		< 1.0
Dibromochloromethane		< 1.0
Dichlorodifluoromethane		< 1.0
Ethylbenzene		< 1.0
Isopropylbenzene (Cumene)		< 1.0
m,p-Xylenes		< 1.0
Methyl Acetate		< 5.0
Methyl Ethyl Ketone (2-Butanone)		**2.5 J**
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		< 5.0

Source: Ecology and Environment Engineering and Geology, P.C. 2023

Table 2-4a Analytical Results Summary for Waste Characterization Water Samples
West Sayville Dry Cleaners Site, West Sayville, New York

Analyte	Sample ID: / Sample Type: / Date:	WC-GW / Wastewater / 06/20/23
Methylcyclohexane		< 1.0
Methylene Chloride		< 1.0
O-Xylene (1,2-Dimethylbenzene)		< 1.0
Styrene		< 1.0
Tert-Butyl Methyl Ether		< 1.0
Tetrachloroethene (PCE)		< 1.0
Toluene		< 1.0
Trans-1,2-Dichloroethene		< 1.0
Trans-1,3-Dichloropropene		< 1.0
Trichloroethene (TCE)		< 1.0
Trichlorofluoromethane		< 1.0
Vinyl Chloride		< 1.0
Metals by Method SW6020B (µg/L)		
Aluminum		< 40.0
Antimony		< 2.0
Arsenic		< 2.0
Barium		**79.9**
Beryllium		< 0.80
Cadmium		< 2.0
Calcium		**38400**
Chromium, Total		< 4.0
Cobalt		**1.8 J**
Copper		< 4.0
Iron		**632**
Lead		< 1.2
Magnesium		**4180**
Manganese		**414**
Nickel		**3.1 J**
Potassium		**6150**
Selenium		< 2.5
Silver		< 2.0
Sodium		**45100**
Thallium		< 0.80
Vanadium		< 4.0
Zinc		**9.3 J**
Mercury by Method SW7470A (µg/L)		
Mercury		< 0.20

Key:

< = Not detected (lab reporting limit shown)

µg/L = Micrograms per liter

J = Estimated value

Bold values denote positive detections.

Source: Ecology and Environment Engineering and Geology, P.C. 2023

Table 2-4b Summary of Analytical Results for Waste Characterization Soil Samples
West Sayville Dry Cleaners Site, West Sayville, NY

Analyte	Sample ID: / Sample Type: / Date:	WC-01 / Waste Soil / 06/20/23
TCLP Volatile Organic Compounds by Method SW1311/8260D (mg/L)		
1,1-Dichloroethene		< 0.010
1,2-Dichloroethane		< 0.010
Benzene		< 0.010
Carbon Tetrachloride		< 0.010
Chlorobenzene		< 0.010
Chloroform		< 0.010
Methyl Ethyl Ketone (2-Butanone)		< 0.050
Tetrachloroethylene (PCE)		< 0.010
Trichloroethylene (TCE)		< 0.010
Vinyl Chloride		< 0.010
Polychlorinated Biphenyl (PCBs) by Method SW8082A (mg/kg)		
PCB-1016 (Aroclor 1016)		< 0.081
PCB-1221 (Aroclor 1221)		< 0.081
PCB-1232 (Aroclor 1232)		< 0.081
PCB-1242 (Aroclor 1242)		< 0.081
PCB-1248 (Aroclor 1248)		< 0.081
PCB-1254 (Aroclor 1254)		< 0.081
PCB-1260 (Aroclor 1260)		< 0.081
PCB-1262 (Aroclor 1262)		< 0.081
PCB-1268 (Aroclor 1268)		< 0.081
Polychlorinated Biphenyl (PCBs)		< 0.081
TCLP Metals by Method SW1311/6020B (mg/L)		
Arsenic		< 0.020
Barium		**0.556**
Cadmium		**0.0045 J**
Chromium, Total		< 0.040
Lead		**0.413**
Selenium		< 0.025
Silver		< 0.020
TCLP Mercury by Method SW1311/7470A (mg/L)		
Mercury		**0.00034**
pH by Method SW9045D (pH units)		
pH		**7.4**
Temperature by Method SW9045D (degrees Celcius)		
Temperature of sample or purge water		**23.4**

Key:

< = Not detected (lab reporting limit shown)

J = Estimated value

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

Bold values denote positive detections.

Source: Ecology and Environment Engineering and Geology, P.C. 2023



NEW YORK STATE Department of Environmental Conservation

ecology and environment engineering and geology, p.c.

N

feet

0 100 200

Figure 2

Site Plan and Sampling Locations

West Sayville Dry Cleaners Site

61 West Main Street

West Sayville, New York

3 Physical Characteristics of the Study Area

3.1 Environmental Setting

The West Sayville Dry cleaner site is located in the Hamlet of West Sayville, Suffolk County, New York. The 0.06-acre site is situated in a retail/commercial area at 61 West Main Street. Land use within approximately 0.5 miles of the site is mixed commercial and residential.

The nearest surface water body to the site is Green's Creek is located about 1,300 feet southeast of the site. Great South Bay is located approximately 0.62 miles South of the site.

The climate of the region is representative of the humid area of the northeastern United States, with mild summers and cold, but not severe, winters. According to the National Weather Service records the annual rainfall is about 39.6 inches, which is evenly distributed over the year. The most precipitation, on average, occurs in August.

3.2 Geology

3.2.1 Regional Geology

The investigative area is located in the Atlantic Coastal Plain Physiographic Province. The overburden soils of the surrounding area are characterized as undifferentiated outwash deposits of Pleistocene age, which are composed of generally stratified coarse to fine sand and gravel up to 250 feet thick. The dominating regional feature is Great South Bay which is located approximately 0.62 miles south of the site. Bedrock geology is identified as being gneiss and schist of Precambrian age and is expected to be encountered at depths of greater than 2000 feet bgs (Pluhowski et al, 1966).

3.2.2 Site Geology

The topography of the site is predominantly flat. During this investigation, soil borings were advanced to maximum depth of 50 feet bgs. Soil borings completed near the site indicate that the overburden soils consist of yellow to brown sand with minor amounts of gravel. Drilling logs are provided in Appendix B.

3.3 Hydrology

3.3.1 Regional Hydrogeology

Groundwater is present in almost all the sand underlying West Sayville, New York, and flows in-between grains or particles. The aquifers underlying the Site are, from the shallowest to the deepest, the Upper Glacial, the Magothy, and the Lloyd aquifers. The Upper Glacial is the aquifer closest to the surface and is comprised of sand and gravel. The Magothy Aquifer consists of sand deposits alternating with clay, it attains a maximum thickness of approximately 1,100 feet and is the source of water for Nassau Suffolk County. The Lloyd Aquifer is located directly above bedrock and ranges in thickness up to 500 feet thick. During the monitoring well installation and sampling events, groundwater was observed at a depth of 9 feet during the advancement of the soil boring at well location MW-1A. During the groundwater sampling event, groundwater was observed to range between 8.36 and 9.19 feet below ground surface in the “A” interval wells; between 8.44 and 9.19 feet below ground surface in the “B” interval wells; and between 8.17 and 9.20 feet below ground surface in the “C” interval wells.

3.3.2 Surface Drainage and Runoff

The site consists of one masonry building with a partial basement occupying approximately 2,860 square feet with an alley way to the west of and adjacent of the building, and a small grassy area behind the building measuring approximately 8 by 26 feet. The west Sayville Fire Department is located across the street which is surrounded by grassy areas and a large parking lot. The topography is relatively flat, with surface water draining either to storm water grates along West Main Street (south side of the site) or collecting in topographic lows before evaporating or slowly infiltrating into the subsurface. There is no direct surface water drainage to Green’s Creek is located about 1,300 feet southeast of the site.

3.3.3 Site Groundwater

Static water level measurements were completed at the site concurrent with well sampling activities (see Table 2-2). Elevations were collected from the 12 newly installed overburden wells. Figures 3 through 5 present the groundwater elevations and interpreted isopleths of the shallow overburden groundwater based on the shallow “A” interval wells, intermediate “B” wells, and the deep “C” interval wells.

The general ground water flow direction in the shallow and intermediate wells “A and B” intervals is to the southeast and the deeper “C” interval wells show groundwater more to the south-southeast.



NEW YORK STATE Department of Environmental Conservation

ecology and environment engineering and geology, p.c.

N

feet

0 100 200

Figure 3

Potentiometric Surface Map - "A" Wells

West Sayville Dry Cleaners Site

61 West Main Street

West Sayville, New York



NEW YORK STATE Department of Environmental Conservation

ecology and environment engineering and geology, p.c.

N

feet

0 100 200

Figure 4

Potentiometric Surface Map - "B" Wells

West Sayville Dry Cleaners Site

61 West Main Street

West Sayville, New York



NEW YORK STATE Department of Environmental Conservation

ecology and environment engineering and geology, p.c.

N

feet

0 100 200

Figure 5

Potentiometric Surface Map - "C" Wells

West Sayville Dry Cleaners Site

61 West Main Street

West Sayville, New York

4 Quality Assurance/Quality Control Procedures

QA/QC procedures were performed in accordance with E & E's *Master Quality Assurance Project Plan for New York State Department of Environmental Conservation Projects, Contract No. D009807* (E & E 2020). Specific QA/QC activities included:

- Collection of field duplicates at a rate of 1 per 20 samples per matrix.
- Collection of additional volume for matrix spike/matrix spike duplicate (MS/MSD) analysis at a rate of 1 per 20 samples for groundwater.
- Collection of one equipment rinsate blank daily from sampling equipment. One sample per day for groundwater sampling was collected for all analyses performed on that matrix. Laboratory-supplied, analyte-free water was used for rinsate blanks.
- Documentation of all data and observations was recorded on field data sheets and/or in the field logbooks.
- Operation and calibration of all field instruments was in accordance with operating instructions as supplied by the manufacturer.
- All laboratory deliverables were validated by an E & E chemist prior to release.

Laboratory deliverables were reviewed in accordance with NYSDEC's general reporting requirements as described in DER-10 (NYSDEC 2010). The data were qualified following guidelines in EPA Region 2's data validation standard operating procedures (see references in Section 9). The data review included an evaluation of the following:

- Sample preservation,
- Holding times,
- Reporting limits,
- Laboratory blanks,
- MS/MSD samples,
- Laboratory control samples,

- Field duplicates,
- Sample result verification, and
- Method-specific quality control samples.

Laboratory reports were provided as NYSDEC DER-10 Category B deliverables (see Appendix G).

Details of the data review are provided in the data usability summary reports (DUSRs) provided in Appendix I. The findings of the data validation are summarized below:

Groundwater Samples: The field blank contained chloroform and methylene chloride, and the trip blank contained methylene chloride. All detected sample results associated with this field blank were "U" qualified as non-detect for chloroform and the sample result was elevated to the method detection limit (MDL) value. All detected sample results associated with this trip blank, were "U" qualified as non-detect for methylene chloride and sample result was elevated to the MDL value. The compound chlorobromomethane was recovered outside of the acceptance criteria for continuing calibration. All sample results were "UJ" qualified as estimated non-detect. The compounds 3,3'-dichlorobenzidine and 4-chloroaniline recovered outside acceptance criteria in the MS and/or MSD for sample MW-2A-20230620. In the instances the percent recovery was low the non-detect results were "UJ" qualified as estimated non-detect. Atrazine and benzaldehyde recovered above the acceptance criteria in the LCS and LCS. However, associated sample results were non-detect, and no qualifications were required. The compounds benzaldehyde and bis(2-ethylhexyl)phthalate were recovered outside of the acceptance criteria for continuing calibration. Multiple sample results were "UJ" qualified as estimated non-detect. Multiple pesticide analytes were recovered above the acceptance criteria in the MS and/or MSD. The sample results were non-detect; therefore, no qualification was made. The compounds endosulfan sulfate, methoxychlor, endrin, and endrin ketone were recovered outside of the acceptance criteria for continuing calibration. Multiple sample results were "UJ" qualified as estimated non-detect. Hexavalent chromium was received unpreserved and outside of holding time (48 hours outside). The sample results were non-detect and qualified as unusable (UR). The compound 2,4-dichlorophenylacetic acid was recovered outside of the acceptance criteria. The sample results were non-detect; therefore, no qualification was made. Several compounds were presumptively identified, and the associated sample value is an estimated maximum possible concentration. The sample results were qualified as presumptively identified (NJ).

The only data flagged as unusable was the hexavalent chromium due to the hold time. Hexavalent chromium is not a contaminant of concern at the site. Remaining analytical data showed no significant signs of impacts affecting the overall usability of the data.

Soil Vapor: The compounds 1,2,4-trichlorobenzene and naphthalene were recovered outside of the acceptance criteria for associated initial calibration. Both sample results were "UJ" qualified as estimated non-detect. Sample SG-1 was diluted to bring the concentration of target analytes within calibration range. Elevated reporting limits were provided for multiple analytes. The compounds 2-hexanone, acetone, butane, and methyl ethyl ketone (2-butanone), n-heptane, n-hexane, and toluene showed poor precision between SG-1 and DUP-01. The detections were "J" qualified as estimated and non-detects were "UJ" qualified as estimated non-detect. Due to the parent sample and field duplicate precision being off by orders of magnitude, a discussion was held with the lab about the analysis. No error was found on the lab's end.

Soil Gas: A careful review of field sampling procedures for the collection of sample SG-1 and DUP-01 showed no errors in collection. After multiple discussions with the lab, no errors could be found from the laboratory analysis or the field collection procedures. In terms of field sample collection, two Summa canisters were connected to a single soil gas collection point using tubing and a tee splitter. Both canisters started and ended at equivalent vacuum pressures. Therefore, the source of the discrepancy could not be determined. To be conservative, the higher concentrations in the parent sample should be used for data evaluation; however, it should be noted that none of the compounds detected in either the parent or duplicate sample were related to past drycleaning operations.

Soil (NYSDEC 2025 Soil Assessment): All acetone and methyl acetate detections were qualified as estimated due to matrix interference, and poor initial or continuing calibration verification sample recoveries. Benzaldehyde and indeno(1,2,3-c,d)pyrene were qualified as estimated in two samples each due to poor ICV recovery or poor field duplicate comparison. Pesticides, including 4,4'-DDT, 4,4'-DDE cis-chlordane, and heptachlor epoxide, were qualified as estimated in several samples due to poor relative percent differences between columns. All pesticide detections and non-detections were qualified as estimated in sample SS6-A due to reextraction outside of the holding time. Copper was qualified as estimated in sample SS4-A due to matrix interferenceThe detection limits for several volatile, semivolatile, and pesticide analytes that were not detected were also flagged as estimated for the same reasons noted for the detections. Detections of various PFAS compounds were also considered estimated in specific samples due to non compliance issues such as matrix interference, laboratory control sample recoveries, poor isotope dilution recovery, poor secondary ion ratio confirmation, etc. Details of the validation findings are provided in the DUSR for laboratory work order 25J1099 in Appendix I.

5 Nature and Extent of Contamination

5.1 Introduction

This section presents the analytical results of the RI field activities in order to develop an understanding of the nature and extent of contamination at the site. This information was used to assess the fate and transport of chemicals (see Section 6) and identify chemicals of potential concern. Based on these findings, no risk evaluation was performed, as there were no chemicals associated with the former dry cleaner that pose a potential threat to human health and/or the environment (see Section 7).

The analytical results for groundwater were compared to New York State Department of Environmental Conservation, Technical and Operational Guidance series (TOGS) 1.1.1 *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations* (NYSDEC 1998 with updates). The groundwater and surface water standards are promulgated standards with which all ambient waters of New York State must comply. Soil vapor intrusion sampling results were compared to NYSDOH's Soil Vapor/ Indoor Air Decision Matrices, including the May 2017 and February 2024 updates (NYSDOH 2006).

5.2 Groundwater Analytical Results

Groundwater samples were collected on June 20, 2023 from 12 newly installed monitoring wells. The 12 newly installed monitoring wells (MW-01A through MW-01C, MW-02A through MW02C, MW-03A through MW-03C, MW-04A through MW04C) are one-inch ID cluster wells, three per location at four locations. Each well is screened in the overburden with 5-foot screens as described in Section 2.2.3. Groundwater analytical results are summarized in Table 5-1 and are included in the laboratory reports in Appendix G. Figure 6 shows analytical detections by location. The following discussion summarizes the analytical results.

Metals

Twelve metals were detected in at least one of the three monitoring well groundwater samples below the NYSDEC Class GA groundwater standards, these include:

- Aluminum at a maximum concentration of 196 µg/L from MW-2A;

- Arsenic at a maximum concentration of 2.9 µg/L from MW-1B;
- Barium at a maximum concentration of 44.3 µg/L from MW-2A;
- Cadmium at a maximum estimated concentration of 0.43 µg/L from MW-2A;
- Calcium at a maximum estimated concentration of 35,300 µg/L from MW-2A;
- Cobalt at a maximum estimated concentration of 0.87 µg/L from MW-1B;
- Copper at a maximum concentration of 0.45 µg/L from MW-2A;
- Magnesium at a maximum concentration of 4,740 µg/L from MW-3A;
- Nickel at a maximum estimated concentration of 3.5 µg/L from MW-2A;
- Potassium at a maximum estimated concentration of 7,980 µg/L from MW-2A;
- Selenium at a maximum estimated concentration of 0.63 µg/L from MW-3B; and
- Zinc at a maximum estimated concentration of 89.8 µg/L from MW-2A.

Three metals were detected in at least one of the three monitoring well groundwater samples above the NYSDEC Class GA groundwater standards including:

- Iron at a maximum concentration of 6,120 µg/L from MW-1B above the NYSDEC standard of 300 µg/L for the protection of aesthetics;
- Manganese at a maximum concentration of 337 µg/L from MW-2A above the NYSDEC standard of 300 µg/L for the protection of aesthetics; and
- Sodium at a maximum estimated concentration of 49,300 µg/L from MW-2A above the NYSDEC standard of 20,000 µg/L for the protection of health.

These metals are considered secondary metals. The presence of elevated sodium is consistent with the Site location adjacent to an estuary and saline water environment. There is no evidence of a release of these metals associated with the former dry cleaner.

PFAS

Eleven PFAS compounds were detected in at least one of the three monitoring well groundwater samples below the NYSDEC water quality guidance values, these include:

- Perfluorobutanesulfonic acid (PFBS) at a maximum concentration of 12.4 nanograms per liter (ng/L) from MW-3B;
- Perfluorobutanoic acid at a maximum estimated concentration of 6.16 ng/L from MW-3B;
- Perfluorodecanoic acid (PFDA) at a maximum concentration of 2.98 ng/L from MW-2A;

- Perfluoroheptanesulfonic acid (PFHpS) at a maximum estimated concentration of 0.56 ng/L from MW-3B;
- Perfluoroheptanoic acid (PFHpA) at a maximum concentration of 10.3 ng/L from MW-3B;
- Perfluorohexanesulfonic acid (PFHxS) at a concentration of 3.39 ng/L from MW-3B;
- Perfluorohexanoic acid (PFHxA) at an estimated presumptive value concentration of 14.9 ng/L from MW-3B;
- Perfluorononanoic acid (PFNA) at a maximum concentration of 4.46 ng/L from MW-2A;
- Perfluorooctane sulfonamide (FOSA) at an estimated maximum concentration of 1.39 ng/L from MW-2A;
- Perfluoropentanesulfonic acid (PFPeS) at an estimated presumptive value concentration of 0.77 ng/L from MW-3B; and
- Perfluoropentanoic acid (PFPeA) at a maximum concentration of 12.9 ng/L from MW-3B.

Two PFAS compounds were detected in at least one of the three monitoring well groundwater samples above the NYSDEC water quality guidance values, these include:

- Perfluorooctanesulfonic acid (PFOS) at estimated presumptive value concentration of 14.9 µg/L from MW-1B and MW-3B and at 17.8 ng/L from MW-2A, above the guidance value of 2.7 ng/L; and
- Perfluorooctanoic acid (PFOA) at 12.7 ng/L from MW-1B, 13.4 ng/L from MW-2A, and 28.4 ng/L from MW-3B, above the guidance value of 6.7 ng/L.

VOCs

All twelve groundwater monitoring wells installed during this investigation were tested for VOCs. Four VOCs were detected in three monitoring well groundwater samples, all below NYSDEC Class GA groundwater standards, including:

- Benzene at an estimated concentration of 0.39 µg/L from MW-3A;
- cis-1,2-Dichloroethene at an estimated concentration of 0.49 µg/L and PCE at 1.0 µg/L from MW-2A; and
- Vinyl chloride at an estimated concentration of 0.20 µg/L from MW-4A.

In all cases the VOCs were detected in the “A” interval sample (the shallowest of those monitored).

SVOCs
None detected.

1,4-Dioxane
None detected.

Pesticides
None detected.

PCBs
None detected.

Herbicides
None detected.

5.3 Soil Vapor Intrusion Investigation
One sub-slab soil vapor sample (MFD-SS01) and two indoor air samples (MFD-IA01 - MFD-IA02) were collected from the former dry cleaners building at 61 West Main Street. One sub-slab soil vapor sample (BAR-SS01) and two indoor air samples (BAR-IA01 and BAR-IA02) were collected from Property 1. One outdoor ambient air sample (BAR-AA01) was collected upwind of the buildings. Concrete drilling, leak testing procedures, and sample collection are discussed in Section 2.2.6. Analytical results are summarized in Table 5-2. Laboratory reports are provided in Appendix G. Figure 7 shows analytical detections for soil vapor intrusion samples.

5.3.1 Soil Vapor Results
Multiple VOCs were detected at low levels. PCE was detected at a concentration of 7.8 µg/m^3 in the sub-slab sample, MFD-SS01, and BAR-SS01 exhibited a concentration of 18 µg/m^3. TCE was not detected in the sub-slab samples. From the indoor air samples PCE was detected at one location from the former dry cleaner at a concentration of 2.4 µg/m^3.

NYSDOH has prepared SVI decision matrices for 21 VOCs that correlate sub-slab vapor and indoor air concentrations with relevant response actions (NYSDOH 2006). A summary of the matrices and the findings is included below:

- Matrix A (carbon tetrachloride, 1,1-dichloroethene, cis-1,2-dichloroethene, and trichloroethene). Carbon tetrachloride was detected in the sub-slab vapor below 6 µg/m^3 in both samples and the indoor air samples were all below 1 µg/m^3. The other compounds were non-detect in all samples. No further action is recommended.
- Matrix B (methylene chloride, tetrachloroethene, 1,1,1-trichloroethane). Methylene chloride was below 100 µg/m^3 in the sub-slab vapor, and below 10 µg/m^3 in the indoor air samples. Similarly, PCE was present below 100 µg/m^3 in the

sub-slab vapor samples and below 3 µg/m³ (non-detect) in the indoor air samples. 1,1,1-Trichloroethane was non-detect in all samples. No further action is recommended.

- Matrix C (vinyl chloride). All samples were non-detect and no further action is recommended.
- Matrix D (benzene, ethylbenzene, naphthalene, cyclohexane, isooctane [2,2,4-trimethylpentane], 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and o-xylene). The concentrations of these compounds were non-detect or present below 60 µg/m^3 in sub-slab vapor and non-detect or below 10 µg/m^3 in associated basement indoor air samples and no further action is recommended. However, at the site building, ethylbenzene was detected at 14 µg/m^3 in the sub-slab vapor and at 30 µg/m^3 in the first-floor air sample and o-xylene was detected at 19 µg/m^3 in the sub-slab vapor and at 23 µg/m^3 in the first-floor air sample. Comparing the concentrations of these analytes indicates a response action of "identify source(s) and resample or mitigate" based on NYSDOH's decision matrix. However, ethylbenzene and o-xylene were not detected in the basement air sample and was highest in the first-floor air sample suggesting a lack of vapor intrusion and a possible indoor air source at the time of sampling.
- Matrix E: (m- and p-xylenes, heptane, and hexane). m- and p-Xylenes were detected in sub-slab vapor below 200 µg/m^3 in both sub-slab vapor samples and the associated basement indoor air samples were below 20 µg/m^3 at both buildings indicating "no further action". However, at the site building, the first-floor air sample concentration was 78 µg/m^3, which, when compared to the sub-slab vapor concentration of 54 µg/m^3, suggests a response action of "identify source(s) and resample or mitigate." However, the m- and p-xylenes were not detected in the basement air sample and were highest in the first-floor air sample indicating a lack of vapor intrusion and a possible indoor air source. n-Heptane and n-hexane were present at low concentrations below the matrix thresholds in both buildings and no further action is recommended.
- Matrix F: (toluene). Toluene was detected below 200 µg/m^3 in both sub-slab vapor samples and below 6 µg/m^3 in indoor air at both locations. No further action is recommended.

It should be noted that acetone was detected at the highest concentrations in all of the samples. Acetone was detected at 590 and 230 µg/m^3 in the indoor air samples and at 130 µg/m^3 in the sub-slab vapor from the former dry cleaner building. Acetone is not evaluated as part of the NYSDOH vapor intrusion matrices and may be associated with current site operations using wood finishes or some other source not related to former dry cleaning operations.

It should be noted that during the product inventory of the Site building conducted at the time of indoor air sampling, wood stain and topcoat, industrial resin, paint primer, and window cleaning supplies were identified as being stored in the building. The full product inventory is provided in Appendix F.

5.4 Soil Gas Investigation

One soil gas sample (SG-01) was collected at a depth of 10 feet from a soil boring advanced to the west of and adjacent to the former dry cleaner building at 61 West Main Street (see Table 5-3). This material was interpreted by the field crew to be native material and not backfill material. The leak testing and sample collection procedures are discussed in Section 2.2.7. Analytical results are summarized in Table 5-3. Laboratory reports are provided in Appendix G. Figure 7 shows analytical detections for soil gas samples.

5.4.1 Soil Gas Results

Multiple compounds were detected; however, PCE, TCE, nor their daughter products were detected.

Twenty-three VOCs were detected in either the soil gas sample (SG-1) or the duplicate sample DUP-1, these compounds include:

- 1,1,2-Trichloro-1,2,2-trifluoroethane at a maximum estimated concentration of 0.46 µg/m^3 from DUP-1;
- 1,2,4-Trimethylbenzene at a maximum estimated concentration of 0.48 µg/m^3 from DUP-1;
- 1,3-Butadiene at a maximum estimated concentration of 0.091 µg/m^3 from DUP-1;
- 2,2,4-Trimethylpentane at a maximum estimated concentration of 0.45 µg/m^3 from DUP-1;
- 2-Hexanone at a maximum estimated concentration of 240 µg/m^3 from SG-1;
- Acetone at a maximum estimated concentration of 1,200 µg/m^3 from SG-1;
- Benzene at a maximum estimated concentration of 0.47 µg/m^3 from DUP-1;
- Butane at a maximum estimated concentration of 44 µg/m^3 from SG-1;
- Carbon tetrachloride at a maximum estimated concentration of 0.35 µg/m^3 from DUP-1;
- Chlorodifluoromethane at a maximum estimated concentration of 0.83 µg/m^3 from DUP-1;
- Chloromethane at a maximum estimated concentration of 0.95 µg/m^3 from DUP-1;
- Cyclohexane at a maximum estimated concentration of 0.32 µg/m^3 from DUP-1;
- Dichlorodifluoromethane at a maximum estimated concentration of 1.4 µg/m^3 from DUP-1;
- Ethylbenzene at a maximum estimated concentration of 0.41 µg/m^3 from DUP-1;

- m- and p-Xylene at a maximum estimated concentration of 1.3 µg/m^3 from DUP-1;
- Methyl ethyl ketone (2-butanone) at a maximum estimated concentration of 4,400 µg/m^3 from SG-1;
- Methylene chloride at a maximum estimated concentration of 1.5 µg/m^3 from DUP-1;
- n-Heptane at a maximum estimated concentration of 17 µg/m^3 from SG-1;
- n-Hexane at a maximum estimated concentration of 12 µg/m^3 from SG-1;
- o-Xylene at a maximum estimated concentration of 0.45 µg/m^3 from DUP-1;
- Toluene at a maximum estimated concentration of 13 µg/m^3 from SG-1; and
- Trichlorofluoromethane at a maximum estimated concentration of 1.0 µg/m^3 from DUP-1.

As discussed in Section 4, there was a discrepancy between the results for the original (normal) and duplicate soil gas samples. Sampling conditions and equipment were equivalent for both samples and no cause for the discrepancy could be determined. The normal sample required dilution to bring the concentrations of acetone and methyl ethyl ketone (2-butanone) into the calibrated range; whereas that was not necessary for the duplicate. Therefore, several other compounds were detected in the field duplicate at low concentrations that were not detected in the normal field sample due to the elevated detection limits associated with the dilution.

The soil gas sample was collected to determine whether residential properties located west of the Site may be impacted by site-related contaminants and warrant further investigation of the soil vapor intrusion pathway. No chlorinated solvents typically associated with dry cleaning operations were detected in either the normal or duplicate soil gas samples. The highest concentrations detected in the diluted normal field sample were acetone at 1,200 µg/m^3 and methyl ethyl ketone (2-butanone) at 4,400 µg/m^3 in the soil gas sample. These compounds are not typically associated with dry cleaning operations and are not evaluated in the soil vapor intrusion pathway (there are no NYSDOH decision matrices for these compounds). Therefore, it was determined that no additional soil vapor intrusion investigation at nearby properties was necessary.

5.5 Soil Investigation

To evaluate the on-site soil conditions at the rear exterior (northwest side) of the Site building, NYSDEC performed two assessments. In June 2024, NYSDEC staff performed a PID screening of soil headspace in a grid of points around soil gas sampling location SG-1. PID readings up to 3.3 ppm were detected at three shallow test points, but background readings up to 14.9 ppm were detected. Details of the PID assessment are provided in Appendix J.

In addition, seven soil borings (SS1 through SS7) were advanced by NYSDEC personnel at the rear exterior (northwest side) of the Site building on November 14 and

15, 2025. These activities are summarized in NYSDEC's October 2025 *Soil Assessment Report*, which is included as Appendix K. This *Soil Assessment Report* contains a written summary of sample collection methods, analytical data tables, figures, boring logs, and a DUSR. A brief summary of the report findings is included below.

Seven samples (SS1-A to SS7-A) were collected from the surface at a depth of 0 to 6 inches; seven soil samples (SS1-B through SS7-B) were collected from a de[tj pf 6 to 12 inches; and three soil samples (SB-1C, SB-2C, and SB3-C) were collected at depths of 4.5 or 5.0 feet.

5.5.1 Soil Results

Multiple compounds including VOCs, pesticides, metals, and PFAS were detected in the soil samples. All soil analytical results were compared to the New York Codes, Rules and Regulations (NYCRR) Title 6 Part 375, Unrestricted Use, Commercial Use, and Protection of Groundwater Soil Cleanup Objectives (SCOs). The results are presented in Table 1 in Appendix K.

VOCs

Nine VOCs were detected in at least one soil sample. All of the detections were below the NYSDEC SCOs, with the exception of acetone, as follows:

- Acetone, a common laboratory contaminant, was present in 12 of the 17 samples (including duplicate samples) and exceeded the unrestricted and protection of groundwater SCOs at two locations at a maximum estimated concentration of 0.062 mg/kg.
- cis-1,2-Dichlorethene in three samples at a maximum estimated concentration of 0.018 mg/kg from SB2-C;
- Methyl acetate in six samples at a maximum estimated concentration of 0.015 mg/kg from SB2-C;
- Methyl ethyl ketone (2-butanone) at only SB2-C at a maximum estimated concentration of 0.074 mg/kg;
- tert-Butyl alcohol at only SS-1A at an estimated concentration of 0.042 mg/kg;
- PCE in 16 samples (all samples except SS-3A) at a maximum estimated concentration of 0.081 mg/kg from SB2-C;
- Toluene in three samples at a maximum estimated concentration of 0.0012 mg/kg from SS-4A;
- trans-1,2-Dichloroethene at only SB2-C at a maximum estimated concentration of 0.00082 mg/kg; and
- TCE in four samples at a maximum estimated concentration of 0.024 mg/kg from SB2-C.

SVOCs

Twelve polynuclear aromatic hydrocarbons (PAHs), two phthalates, and one aldehyde compound were detected in at least two of the eight soil samples (including one duplicate) tested for SVOCs. All detections were below unrestricted and protection of groundwater SCOs, including:

- Anthracene in two samples (SS-5A and SS-6A) at a maximum estimated concentration of 0.011 mg/kg;
- Benzaldehyde in one sample (SS-1A and duplicate) at a maximum estimated concentration of 0.089 mg/kg;
- Benzo(a)anthracene in all eight samples at a maximum concentration of 0.069 mg/kg from SS6-A;
- Benzo(a)pyrene in all eight samples at a maximum concentration of 0.069 mg/kg from SS6-A;
- Benzo(b)fluoranthene in all eight samples at a maximum concentration of 0.10 mg/kg from SS6-A;
- Benzo(g,h,i)perylene in all eight samples at a maximum concentration of 0.064 mg/kg from SS6-A;
- Benzo(k)fluoranthene in all eight samples at a maximum concentration of 0.041 mg/kg from SS6-A;
- Benzyl butyl phthalate in one sample (SS-1A and duplicate) at a maximum estimated concentration of 0.14 mg/kg;
- Bis(2-ethylhexyl)phthalate in five samples at a maximum estimated concentration of 0.27 mg/kg;
- Chrysene in all eight samples at a maximum concentration of 0.081 mg/kg from SS6-A;
- Dibenz(a,h)anthracene in one sample (SS-1A and duplicate) at a maximum estimated concentration of 0.030 mg/kg;
- Fluoranthene in all eight samples at a maximum concentration of 0.18 mg/kg from SS1-A;
- Indeno(1,2,3-c,d)pyrene in all eight samples at a maximum concentration of 0.20 mg/kg from SS1-A;
- Phenanthrene in all eight samples at a maximum concentration of 0.096 mg/kg from SS1-A;
- Pyrene in all eight samples at a maximum concentration of 0.14 mg/kg from SS6-A;

PCBs/Pesticides

Aroclor-1260 was detected at a low concentration (below the unrestricted use SCO) in two samples at a maximum estimated concentration of 0.073 mg/kg from SS1-A. Six pesticides were detected in at least one of the eight soil samples (including

one duplicate) tested for pesticides. Two compounds exceeded unrestricted SCOs but were below protection of groundwater and commercial SCOs and the concentrations of the other four compounds were below unrestricted SCOs, including:

- cis-Chlordane was detected in seven samples and exceeded the unrestricted SCO in five shallow samples at a maximum estimated concentration of 0.070 mg/kg from SS4-A;
- 4,4'-DDT was detected in seven samples (including the duplicate) and exceeded the unrestricted SCO in five shallow samples (plus the duplicate) at a maximum estimated concentration of 0.013 mg/kg from SS4-A;
- Dieldrin was detected in two samples below the unrestricted SCO at a maximum estimated concentration of 0.0012 mg/kg from SS6-A;
- Heptachlor epoxide was only detected at SS6-A at an estimated concentration of 0.0027 mg/kg, below the unrestricted SCO;
- 4,4'-DDE was detected in three samples below the unrestricted SCO at a maximum estimated concentration of 0.0029 mg/kg from SS4-A;
- trans-Chlordane was detected in seven samples (including the duplicate) below the unrestricted SCO at a maximum concentration of 0.068 mg/kg from SS4-A;

Metals

Seventeen metals were detected in at least one of the seven soil boring samples at concentrations below all NYSDEC SCOs (or no SCOs exist) including:

- Aluminum at a maximum concentration of 5,680 mg/kg from SS3-A;
- Arsenic at a maximum concentration of 3.68 mg/kg from SS1-A;
- Barium at a maximum concentration of 28.9 mg/kg from SS7-A;
- Beryllium at a maximum estimated concentration of 0.211 mg/kg from SS3-A;
- Cadmium at a maximum estimated concentration of 0.316 mg/kg from SS1-A;
- Calcium at a maximum concentration of 1,430 mg/kg from SS1-A;
- Chromium (total) at a maximum concentration of 7.00 mg/kg from SS3-A;
- Cobalt at a maximum concentration of 2.15 mg/kg from SS3-A;
- Iron at a maximum concentration of 8.440 mg/kg from SS1-A;
- Magnesium at a maximum concentration of 879 mg/kg from SS3-A;
- Manganese at a maximum concentration of 104 mg/kg from SS3-A;
- Mercury at a maximum concentration of 0.152 mg/kg from SS1-A;
- Nickel at a maximum concentration of 6.38 mg/kg from SS6A;
- Potassium at a maximum estimated concentration of 214 mg/kg from SS3-A;

- Selenium, detected only in SS-1A, at an estimated concentration of 0.534 mg/kg;
- Silver, detected only in SS-1A, at an estimated concentration of 0.386 mg/kg; and
- Vanadium at a maximum concentration of 10.7 mg/kg from SS3-A.

Three metals (copper, lead, and zinc) were detected above the unrestricted use SCO but below the protection of groundwater and commercial SCOs:

- Copper was detected in all eight samples (including the duplicate) and exceeded the unrestricted SCO in one sample (SS1-A) at a maximum concentration of 65.3 mg/kg;
- Lead was detected in all eight samples (including the duplicate) and exceeded the unrestricted SCO in three samples (SS1-A, SS5-A, and SS7-A, plus the duplicate) at a maximum concentration of 110 mg/kg at SS1-A;
- Zinc was detected in all eight samples (including the duplicate) and exceeded the unrestricted SCO in one sample (SS1-A) at a maximum concentration of 124 mg/kg.

PFAS

A total of 22 PFAS compounds were detected in at least one soil boring sample. There are no SCOs or guidance values for comparison to the detected concentrations except for PFOA and PFOS. The most prevalent compounds that were detected at all sampling locations included:

- Perfluorodecanoic acid (PFDA)
- Perfluorododecanoic acid (PFDoA)
- Perfluorononanoic acid (PFNA)
- Perfluorooctane sulfonamide (FOSA)
- Perfluorooctanesulfonic acid (PFOS)
- Perfluorooctanoic acid (PFOA)
- Perfluorotetradecanoic acid (PFTA)
- Perfluoroundecanoic Acid (PFUnA)

The maximum detected concentration of any PFAS compound was 29.7 µg/kg of perfluorodecanoic acid (PFDA) from SS1-A. The sum of PFAS compound detections were all below 30 µg/kg except for SS1-A where the total PFAS concentration was approximately 143 µg/kg.

PFOS and PFOA were both detected in all eight samples (including the duplicate). PFOS was detected at concentrations above the unrestricted use and protection of groundwater guidance values, but below the commercial guidance value at four locations (SS1-A, SS4-A, SS5-A, and SS7-A) with a maximum concentration of 17.8 µg/kg from SS1-A. PFOA was detected above the unrestricted use and protection of groundwater guidance values, but below the commercial guidance value at two locations (SS1-A and SS2-A) with a maximum concentration of 15.1 µg/kg from SS1-A.

Table 5-1 Analytical Results Summary for Groundwater Samples
West Sayville Dry Cleaners Site, West Sayville, New York

Analyte	Screening Criteria[1]	Location ID:	MW-1A	MW-1B Duplicate	MW-1B	MW-1C	MW-2A	MW-2B	MW-2C	MW-3A	MW-3B	MW-3C	MW-4A	MW-4B	MW-4C
		Depth:	10 - 15 ft	25 - 30 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft
		Date:	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23
Volatile Organic Compounds by Method 8260D (µg/L)															
1,1,1-Trichloroethane (TCA)	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-Trifluoroethane	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	0.04		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane (Ethylene Dibromide)	0.0006		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	3		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	0.6		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	3		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	3		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane (p-Dioxane)	0.35		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	50		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acetone	50		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.39 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	50		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	50		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Dislfide	60		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Tetrachloride	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	7		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane (Methyl Chloride)	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	5		< 1.0	< 1.0	< 1.0	< 1.0	**0.49 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-Dichloropropene	0.4		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	N/A		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	50		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifloromethane	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene (Cumene)	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	N/A		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl Ethyl Ketone (2-Butanone)	50		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl Isobtyl Ketone (4-Methyl-2-Pentanone)	N/A		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylcyclohexane	N/A		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene Chloride	5		< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Key at end of table.

Table 5-1 Analytical Results Summary for Groundwater Samples
West Sayville Dry Cleaners Site, West Sayville, New York

Analyte	Screening Criteria[1]		Location ID:	MW-1A	MW-1B Duplicate	MW-1B	MW-1C	MW-2A	MW-2B	MW-2C	MW-3A	MW-3B	MW-3C	MW-4A	MW-4B	MW-4C
			Depth:	10 - 15 ft	25 - 30 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft
			Date:	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23
O-Xylene (1,2-Dimethylbenzene)	5			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	5			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butyl Methyl Ether	10			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene (PCE)	5			< 1.0	< 1.0	< 1.0	< 1.0	**1.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tolene	5			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-Dichloroethene	5			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	0.4			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene (TCE)	5			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofloromethane	5			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	2			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.20 J**	< 1.0	< 1.0
1,4-Dioxane by Method 8270E-SIM (µg/L)																
1,4-Dioxane (p-Dioxane)	0.35			--	< 0.20	< 0.20	--	< 0.20	--	--	--	< 0.20	--	--	--	--
Semi-Volatile Organic Compounds by Method 8270E (µg/L)																
1,2,4,5-Tetrachlorobenzene	5			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
2,3,4,6-Tetrachlorophenol	1	A		--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
2,4,5-Trichlorophenol	1	A		--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
2,4,6-Trichlorophenol	1	A		--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
2,4-Dichlorophenol	1	A		--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
2,4-Dimethylphenol	1	A		--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
2,4-Dinitrophenol	1	A		--	< 40	< 40	--	< 40	--	--	--	< 40	--	--	--	--
2,4-Dinitrotolene	5			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
2,6-Dinitrotolene	5			--	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	--	--	--	--
2-Chloronaphthalene	10			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
2-Chlorophenol	1	A		--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
2-Methylnaphthalene	N/A			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
2-Methylphenol (O-Cresol)	1	A		--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
2-Nitroaniline	5			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
2-Nitrophenol	1	A		--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
3,3'-Dichlorobenzidine	5			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
3-Nitroaniline	5			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
4,6-Dinitro-2-Methylphenol	1	A		--	< 20	< 20	--	< 20	--	--	--	< 20	--	--	--	--
4-Bromophenyl Phenyl Ether	N/A			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
4-Chloro-3-Methylphenol	1	A		--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
4-Chloroaniline	5			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
4-Chlorophenyl Phenyl Ether	N/A			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
4-Methylphenol (p-Cresol)	1	A		--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
4-Nitroaniline	5			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
4-Nitrophenol	1	A		--	< 20	< 20	--	< 20	--	--	--	< 20	--	--	--	--
Acenaphthene	20			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Acenaphthylene	N/A			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Acetophenone	N/A			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Anthracene	50			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Atrazine	7.5			--	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	--	--	--	--

Key at end of table.

Table 5-1 Analytical Results Summary for Groundwater Samples
West Sayville Dry Cleaners Site, West Sayville, New York

Analyte	Screening Criteria[1]		Location ID:	MW-1A	MW-1B Duplicate	MW-1B	MW-1C	MW-2A	MW-2B	MW-2C	MW-3A	MW-3B	MW-3C	MW-4A	MW-4B	MW-4C
			Depth:	10 - 15 ft	25 - 30 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft
			Date:	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23
Benzaldehyde	N/A			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Benzo(A)Anthracene	0.002			--	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	--	--	--	--
Benzo(A)Pyrene	ND			--	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	--	--	--	--
Benzo(B)Fluoranthene	0.002			--	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	--	--	--	--
Benzo(G,H,I)Perylene	N/A			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Benzo(K)Fluoranthene	0.002			--	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	--	--	--	--
Benzyl Butyl Phthalate	50			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Bis(2-Chloroethoxy) Methane	5			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1			--	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	--	--	--	--
Bis(2-Chloroisopropyl) Ether	5			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Bis(2-Ethylhexyl) Phthalate	5			--	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	--	--	--	--
Caprolactam	N/A			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Carbazole	N/A			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Chrysene	0.002			--	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	--	--	--	--
Dibenz(A,H)Anthracene	N/A			--	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	--	--	--	--
Dibenzofuran	N/A			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Diethyl Phthalate	50			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Dimethyl Phthalate	50			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Di-N-Butyl Phthalate	50			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Di-N-Octylphthalate	50			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Fluoranthene	50			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Fluorene	50			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Hexachlorobenzene	0.04			--	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	--	--	--	--
Hexachlorobutadiene	0.5			--	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	--	--	--	--
Hexachlorocyclopentadiene	5			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Hexachloroethane	5			--	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	--	--	--	--
Indeno(1,2,3-C,D)Pyrene	0.002			--	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	--	--	--	--
Isophorone	50			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Naphthalene	10			--	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	--	--	--	--
Nitrobenzene	0.4			--	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	--	--	--	--
N-Nitrosodi-N-Propylamine	N/A			--	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	--	--	--	--
N-Nitrosodiphenylamine	50			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Pentachlorophenol	1	A		--	< 20	< 20	--	< 20	--	--	--	< 20	--	--	--	--
Phenanthrene	50			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Phenol	1	A		--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Pyrene	50			--	< 10	< 10	--	< 10	--	--	--	< 10	--	--	--	--
Pesticides by Method 8081B (µg/L)																
Aldrin	ND			--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Alpha BHC (Alpha Hexachlorocyclohexane)	0.01			--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Alpha Endosulfan	N/A			--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Beta BHC (Beta Hexachlorocyclohexane)	0.04			--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Beta Endosulfan	N/A			--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--

Key at end of table.

Table 5-1 Analytical Results Summary for Groundwater Samples
West Sayville Dry Cleaners Site, West Sayville, New York

Analyte	Screening Criteria[1]	Location ID:	MW-1A	MW-1B Duplicate	MW-1B	MW-1C	MW-2A	MW-2B	MW-2C	MW-3A	MW-3B	MW-3C	MW-4A	MW-4B	MW-4C
		Depth:	10 - 15 ft	25 - 30 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft
		Date:	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23
Chlordane (Technical)	N/A		--	< 0.50	< 0.50	--	< 0.50	--	--	--	< 0.50	--	--	--	--
Delta BHC (Delta Hexachlorocyclohexane)	0.04		--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Dieldrin	0.004		--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Endosulfan Sulfate	N/A		--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Endrin	0		--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Endrin Aldehyde	5		--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Endrin Ketone	5		--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Gamma BHC (Lindane)	0.05		--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Heptachlor	0.04		--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Heptachlor Epoxide	0.03		--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Methoxychlor	35		--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
p,p'-DDD	0.3		--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
p,p'-DDE	0.2		--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
p,p'-DDT	0.2		--	< 0.020	< 0.020	--	< 0.020	--	--	--	< 0.020	--	--	--	--
Toxaphene	0.06		--	< 0.50	< 0.50	--	< 0.50	--	--	--	< 0.50	--	--	--	--
Polychlorinated Biphenyls by Method 8082A (µg/L)															
PCB-1016 (Aroclor 1016)	0.09	A	--	< 0.40	< 0.40	--	< 0.40	--	--	--	< 0.40	--	--	--	--
PCB-1221 (Aroclor 1221)	0.09		--	< 0.40	< 0.40	--	< 0.40	--	--	--	< 0.40	--	--	--	--
PCB-1232 (Aroclor 1232)	0.09		--	< 0.40	< 0.40	--	< 0.40	--	--	--	< 0.40	--	--	--	--
PCB-1242 (Aroclor 1242)	0.09		--	< 0.40	< 0.40	--	< 0.40	--	--	--	< 0.40	--	--	--	--
PCB-1248 (Aroclor 1248)	0.09		--	< 0.40	< 0.40	--	< 0.40	--	--	--	< 0.40	--	--	--	--
PCB-1254 (Aroclor 1254)	0.09		--	< 0.40	< 0.40	--	< 0.40	--	--	--	< 0.40	--	--	--	--
PCB-1260 (Aroclor 1260)	0.09		--	< 0.40	< 0.40	--	< 0.40	--	--	--	< 0.40	--	--	--	--
PCB-1262 (Aroclor 1262)	0.09		--	< 0.40	< 0.40	--	< 0.40	--	--	--	< 0.40	--	--	--	--
PCB-1268 (Aroclor 1268)	0.09		--	< 0.40	< 0.40	--	< 0.40	--	--	--	< 0.40	--	--	--	--
Polychlorinated Biphenyl (PCBs)	0.09		--	< 0.40	< 0.40	--	< 0.40	--	--	--	< 0.40	--	--	--	--
Herbicides by Method 8151A (µg/L)															
2,4-D (Dichlorophenoxyacetic Acid)	50		--	< 1.2	< 1.2	--	< 1.2	--	--	--	< 6.0	--	--	--	--
Acetic acid, (2,4,5-trichlorophenoxy)-	35		--	< 1.2	< 1.2	--	< 1.2	--	--	--	< 6.0	--	--	--	--
Silvex (2,4,5-TP)	0.26		--	< 1.2	< 1.2	--	< 1.2	--	--	--	< 6.0	--	--	--	--
Metals by Method 6020B (µg/L)															
Aluminum	N/A		--	< 40.0	< 40.0	--	**196**	--	--	--	< 40.0	--	--	--	--
Antimony	3		--	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	--	--	--	--
Arsenic	25		--	**2.7**	**2.9**	--	< 2.0	--	--	--	< 2.0	--	--	--	--
Barium	1000		--	**7.9**	**8.3**	--	**44.3**	--	--	--	**13.8**	--	--	--	--
Beryllium	3.0		--	< 0.80	< 0.80	--	< 0.80	--	--	--	< 0.80	--	--	--	--
Cadmium	5		--	< 2.0	< 2.0	--	**0.43 J**	--	--	--	< 2.0	--	--	--	--
Calcium	N/A		--	**32700**	**30700**	--	**35300**	--	--	--	**25500**	--	--	--	--
Chromium, Total	50		--	< 4.0	< 4.0	--	< 4.0	--	--	--	< 4.0	--	--	--	--
Cobalt	N/A		--	**0.85 J**	**0.87 J**	--	< 4.0	--	--	--	< 4.0	--	--	--	--
Copper	200		--	< 4.0	< 4.0	--	**4.5**	--	--	--	< 4.0	--	--	--	--
Iron	300		--	**6120**	**5860**	--	**186**	--	--	--	< 120	--	--	--	--
Lead	25		--	< 1.2	< 1.2	--	< 1.2	--	--	--	< 1.2	--	--	--	--

Key at end of table.

Table 5-1 Analytical Results Summary for Groundwater Samples
West Sayville Dry Cleaners Site, West Sayville, New York

Analyte	Location ID:	MW-1A	MW-1B Duplicate	MW-1B	MW-1C	MW-2A	MW-2B	MW-2C	MW-3A	MW-3B	MW-3C	MW-4A	MW-4B	MW-4C
	Depth:	10 - 15 ft	25 - 30 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft
	Date:	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23
	Screening Criteria[1]													
Magnesium	35000	--	**4000**	**3840**	--	**4680**	--	--	--	**4740**	--	--	--	--
Manganese	300	--	**46.5**	**43.2**	--	**337**	--	--	--	**24.7**	--	--	--	--
Nickel	100	--	**1.3 J**	**1.2 J**	--	**3.5 J**	--	--	--	< 4.0	--	--	--	--
Potassium	N/A	--	**5290**	**5080**	--	**7980**	--	--	--	**3190**	--	--	--	--
Selenium	10	--	< 2.5	< 2.5	--	< 2.5	--	--	--	**0.63 J**	--	--	--	--
Silver	50	--	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	--	--	--	--
Sodium	20000	--	**34200**	**32600**	--	**49300**	--	--	--	**30100**	--	--	--	--
Thallium	0.50	--	< 0.80	< 0.80	--	< 0.80	--	--	--	< 0.80	--	--	--	--
Vanadium	N/A	--	< 4.0	< 4.0	--	< 4.0	--	--	--	< 4.0	--	--	--	--
Zinc	2000	--	< 16.0	< 16.0	--	**89.8**	--	--	--	< 16.0	--	--	--	--
Mercury by Method 7470A (µg/L)														
Mercury	0.7	--	< 0.20	< 0.20	--	< 0.20	--	--	--	< 0.20	--	--	--	--
Perfluorinated Compounds by Method 1633 (ng/L)														
11-Chloroeicosafluoro-3-Oxandecane-1-sulfonic Acid	N/A	--	< 7.26	< 7.45	--	< 6.87	--	--	--	< 7.05	--	--	--	--
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	N/A	--	< 7.26	< 7.45	--	< 6.87	--	--	--	< 7.05	--	--	--	--
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	N/A	--	< 7.26	< 7.45	--	< 6.87	--	--	--	< 7.05	--	--	--	--
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	N/A	--	< 7.26	< 7.45	--	< 6.87	--	--	--	< 7.05	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	N/A	--	< 18.2	< 18.6	--	< 17.2	--	--	--	< 17.6	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	N/A	--	< 18.2	< 18.6	--	< 17.2	--	--	--	< 17.6	--	--	--	--
2H,2H,3H,3H-Perfluorooctanoic acid	N/A	--	< 45.4	< 46.5	--	< 42.9	--	--	--	< 44.1	--	--	--	--
3-Perfluoroheptyl propanoic acid	N/A	--	< 45.4	< 46.5	--	< 42.9	--	--	--	< 44.1	--	--	--	--
3-Perfluoropropyl propanoic acid	N/A	--	< 9.08	< 9.31	--	< 8.59	--	--	--	< 8.82	--	--	--	--
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	N/A	--	< 7.26	< 7.45	--	< 6.87	--	--	--	< 7.05	--	--	--	--
9-Chlorohexadecafluoro-3-Oxanonane-1-sulfonic Acid	N/A	--	< 7.26	< 7.45	--	< 6.87	--	--	--	< 7.05	--	--	--	--
Hexafluoropropylene oxide dimer acid (HFPO-DA)	N/A	--	< 7.26	< 7.45	--	< 6.87	--	--	--	< 7.05	--	--	--	--
N-ethyl perfluoro-1-octanesulfonamide	N/A	--	< 1.82	< 1.86	--	< 1.72	--	--	--	< 1.76	--	--	--	--
N-ethyl perfluorooctanesulfonamidoacetic acid	N/A	--	< 1.82	< 1.86	--	< 1.72	--	--	--	< 1.76	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	N/A	--	< 1.82	< 1.86	--	< 1.72	--	--	--	< 1.76	--	--	--	--
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	N/A	--	< 3.63	< 3.72	--	< 3.44	--	--	--	< 3.53	--	--	--	--
Nonafluoro-3,6-dioxaheptanoic acid	N/A	--	< 3.63	< 3.72	--	< 3.44	--	--	--	< 3.53	--	--	--	--
Perfluoro(2-ethoxyethane)sulfonic acid	N/A	--	< 3.63	< 3.72	--	< 3.44	--	--	--	< 3.53	--	--	--	--
Perfluoro-3-methoxypropanoic acid	N/A	--	< 3.63	< 3.72	--	< 3.44	--	--	--	< 3.53	--	--	--	--
Perfluoro-4-methoxybutanoic acid	N/A	--	< 3.63	< 3.72	--	< 3.44	--	--	--	< 3.53	--	--	--	--
Perfluorobutanesulfonic acid (PFBS)	N/A	--	**6.10**	**5.90**	--	**4.43**	--	--	--	**12.4**	--	--	--	--
Perfluorobutanoic acid	N/A	--	**4.23 J**	**4.20 J**	--	**4.81 J**	--	--	--	**6.16 J**	--	--	--	--
Perfluorodecanesulfonic acid (PFDS)	N/A	--	< 1.82	< 1.86	--	< 1.72	--	--	--	< 1.76	--	--	--	--
Perfluorodecanoic acid (PFDA)	N/A	--	< 1.82	**0.52 J**	--	**2.98**	--	--	--	< 1.76	--	--	--	--
Perfluorododecanesulfonic acid (PFDOS)	N/A	--	< 1.82	< 1.86	--	< 1.72	--	--	--	< 1.76	--	--	--	--
Perfluorododecanoic acid (PFDoA)	N/A	--	< 1.82	< 1.86	--	< 1.72	--	--	--	< 1.76	--	--	--	--
Perfluoroheptanesulfonic acid (PFHpS)	N/A	--	< 1.82	< 1.86	--	< 1.72	--	--	--	**0.56 J**	--	--	--	--
Perfluoroheptanoic acid (PFHpA)	N/A	--	**2.68**	**2.60**	--	**2.70**	--	--	--	**10.3**	--	--	--	--
Perfluorohexanesulfonic acid (PFHxS)	N/A	--	**2.68**	**2.31**	--	**3.17**	--	--	--	**3.39**	--	--	--	--
Perfluorohexanoic acid (PFHxA)	N/A	--	**3.41**	**3.31**	--	**6.10**	--	--	--	**14.9 NJ**	--	--	--	--

Key at end of table.

Table 5-1 Analytical Results Summary for Groundwater Samples
West Sayville Dry Cleaners Site, West Sayville, New York

Analyte	Screening Criteria[1]	Location ID:	MW-1A	MW-1B Duplicate	MW-1B	MW-1C	MW-2A	MW-2B	MW-2C	MW-3A	MW-3B	MW-3C	MW-4A	MW-4B	MW-4C
		Depth:	10 - 15 ft	25 - 30 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft	10 - 15 ft	25 - 30 ft	45 - 50 ft
		Date:	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23	06/20/23
Perfluorononanesulfonic Acid (PFNS)	N/A		--	< 1.82	< 1.86	--	< 1.72	--	--	--	< 1.76	--	--	--	--
Perfluorononanoic acid (PFNA)	N/A		--	**0.98 J**	**1.40 J**	--	**4.46**	--	--	--	**3.09**	--	--	--	--
Perfluorooctane Sulfonamide (FOSA)	N/A		--	< 1.82	< 1.86	--	**1.39 J**	--	--	--	< 1.76	--	--	--	--
Perfluorooctanesulfonic acid (PFOS)	2.7		--	**14.9 NJ**	**14.4**	--	**17.8**	--	--	--	**14.9 NJ**	--	--	--	--
Perfluorooctanoic acid (PFOA)	6.7		--	**12.7**	**12.5**	--	**13.4**	--	--	--	**28.4**	--	--	--	--
Perfluoropentanesulfonic Acid (PFPeS)	N/A		--	< 1.82	< 1.86	--	< 1.72	--	--	--	**0.77 NJ**	--	--	--	--
Perfluoropentanoic Acid (PFPeA)	N/A		--	**2.92 J**	**2.86 NJ**	--	**4.99**	--	--	--	**12.9**	--	--	--	--
Perfluorotetradecanoic acid (PFTA)	N/A		--	< 1.82	< 1.86	--	< 1.72	--	--	--	< 1.76	--	--	--	--
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	N/A		--	< 1.82	< 1.86	--	< 1.72	--	--	--	< 1.76	--	--	--	--
Perfluorondecanoic Acid (PFnA)	N/A		--	< 1.82	< 1.86	--	< 1.72	--	--	--	< 1.76	--	--	--	--

Key:

-- = Analyte not analyzed for

< = Not detected (lab reporting limit shown)

µg/L = Micrograms per liter

J = Estimated value

N/A = Not regulated/no available criteria

ND = a non-detectable concentration by the approved analytical methods

ng/L = Nanograms per liter

NJ = Estimated value, presumptively identified

Bold values denote positive detections.

Shaded values indicate result exceeds groundwater standard and/or groundwater guidance value.

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1. New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

Key at end of table.

Table 5-2 Analytical Results Summary for Soil Vapor Intrusion Samples
West Sayville Dry Cleaners Site, West Sayville, New York

Location ID: Sample Type: Date: Analyte	BAR - SS01 Sub-slab Vapor 4/4/2023	BAR - IA02 Basement Air 4/4/2023	BAR - IA01 First Floor Air 4/4/2023	BAR - AA01 Outdoor Air 4/4/2023	MFD - SS01 Sub-slab Vapor 4/4/2023	MFD - IA01 Basement Air * 4/4/2023	MFD - IA02 First Floor Air 4/4/2023
Volatile Organic Compounds by Method TO15 (µg/m^3)							
1,1,1-Trichloroethane (TCA)	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
1,1,2,2-Tetrachloroethane	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.44 J**	**0.43 J**	< 1.5	< 1.5	**0.46 J**	< 1.5	**0.43 J**
1,1,2-Trichloroethane	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
1,1-Dichloroethane	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
1,1-Dichloroethene	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79
1,2,4-Trichlorobenzene	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7
1,2,4-Trimethylbenzene	< 0.98	**0.79 J**	< 0.98	< 0.98	**2.0**	< 0.98	< 0.98
1,2-Dibromoethane (Ethyleneibromide)	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
1,2-Dichlorobenzene	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
1,2-Dichloroethane	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
1,2-Dichloropropane	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92
1,2-Dichlorotetrafluoroethane	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
1,3,5-Trimethylbenzene (Mesitylene)	< 0.98	< 0.98	< 0.98	< 0.98	**0.47 J**	< 0.98	< 0.98
1,3-Butadiene	**0.094 J**	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,3-Dichlorobenzene	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
1,4-Dichlorobenzene	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
1,4-Dioxane (p-Dioxane)	< 18	< 18	< 18	< 18	< 18	< 18	< 18
2,2,4-Trimethylpentane	**0.19 J**	< 0.93	< 0.93	< 0.93	**0.27 J**	< 0.93	< 0.93
2-Chlorotoluene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Hexanone	**1.8 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4-Ethyltoluene	< 0.98	< 0.98	< 0.98	< 0.98	**0.35 J**	< 0.98	< 0.98
Acetone	**51**	**39**	**17**	**8.3 J**	**130**	**230**	**590**
Allyl Chloride (3-Chloropropene)	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Benzene	**0.5 J**	**0.25 J**	< 0.64	**0.21 J**	**0.28 J**	< 0.64	**0.31 J**
Benzyl Chloride	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Bromoform	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
Bromomethane	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78
Butane	**1.8**	**2.3**	**1.6**	**0.92 J**	**0.56 J**	**1.2**	**1.4**
Carbon disulfide	< 1.6	< 1.6	**1.1 J**	**0.71 J**	**0.7 J**	< 1.6	< 1.6
Carbon tetrachloride	**0.21 J**	**0.31 J**	< 1.3	**0.36 J**	**0.31 J**	< 1.3	**0.34 J**
Chlorobenzene	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92
Chlorodifluoromethane	**1.3 J**	**1.5 J**	**1.5 J**	**1.3 J**	**0.5 J**	**1.9**	**1.4 J**

Key at end of table

Table 5-2 Analytical Results Summary for Soil Vapor Intrusion Samples
West Sayville Dry Cleaners Site, West Sayville, New York

Location ID: / Sample Type: / Date: / Analyte	BAR - SS01 Sub-slab Vapor 4/4/2023	BAR - IA02 Basement Air 4/4/2023	BAR - IA01 First Floor Air 4/4/2023	BAR - AA01 Outdoor Air 4/4/2023	MFD - SS01 Sub-slab Vapor 4/4/2023	MFD - IA01 Basement Air * 4/4/2023	MFD - IA02 First Floor Air 4/4/2023
Volatile Organic Compounds by Method TO15 (µg/m^3)							
Chloroethane	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Chloroform	**3.3**	**0.51 J**	< 0.98	< 0.98	**0.76 J**	< 0.98	< 0.98
Chloromethane (Methyl Chloride)	**0.74 J**	**1.1**	**1.1**	**2.5**	**0.53 J**	**1.0**	**1.1**
cis-1,2-Dichloroethene	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79
cis-1,3-Dichloropropene	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91
Cyclohexane	**0.26 J**	**0.25 J**	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
Cymene (4-Isopropyltoluene)	< 1.1	**0.34 J**	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Dibromochloromethane	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Dichlorodifluoromethane	**2.1 J**	**2.1 J**	**2.0 J**	**2.3 J**	**2.1 J**	**2.3 J**	**2.2 J**
Dichloroethylenes	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Ethylbenzene	**0.32 J**	**0.23 J**	< 0.87	**0.34 J**	**14**	< 0.87	**30**
Hexachlorobutadiene	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
Isopropanol	**7.2 J**	**320**	**200**	**3.9 J**	**17**	**7.0 J**	**11 J**
Isopropylbenzene (Cumene)	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
m,p-Xylene	**0.77 J**	**0.84 J**	< 2.2	**1.4 J**	**54**	< 2.2	**78**
Methyl Ethyl Ketone (2-Butanone)	**16**	**3.4**	< 1.5	**3.2**	**21**	**3.4**	**39**
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	**1.9 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Methacrylate	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methylene Chloride	**2.7**	**1.0 J**	< 1.7	**0.65 J**	**1.1 J**	**5.5**	**3.8**
Naphthalene	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
n-Butylbenzene	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
n-Heptane	< 0.82	**0.5 J**	< 0.82	**0.43 J**	**1.1**	< 0.82	< 0.82
n-Hexane	**4.0**	**1.4 J**	< 1.8	**0.42 J**	**0.59 J**	< 1.8	**1.7 J**
n-Propylbenzene	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
o-Xylene (1,2-Dimethylbenzene)	**0.23 J**	**0.33 J**	< 0.87	**0.65 J**	**19**	< 0.87	**23**
sec-Butylbenzene	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Styrene	< 0.85	< 0.85	< 0.85	< 0.85	**2.3**	< 0.85	**2.3**
t-Butylbenzene	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
tert-Butyl Alcohol	< 15	< 15	< 15	< 15	< 15	< 15	< 15
tert-Butyl Methyl Ether	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72
Tetrachloroethene (PCE)	**18**	< 1.4	< 1.4	< 1.4	**7.8**	< 1.4	**2.4**
Tetrahydrofuran	< 15	< 15	< 15	< 15	< 15	< 15	< 15
Toluene	**2.2**	**1.9**	< 0.75	**1.7**	**9.4**	< 0.75	**20**
trans-1,2-Dichloroethene	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79

Key at end of table

Table 5-2 Analytical Results Summary for Soil Vapor Intrusion Samples
West Sayville Dry Cleaners Site, West Sayville, New York

Analyte / Location ID: / Sample Type: / Date:	BAR - SS01 Sub-slab Vapor 4/4/2023	BAR - IA02 Basement Air 4/4/2023	BAR - IA01 First Floor Air 4/4/2023	BAR - AA01 Outdoor Air 4/4/2023	MFD - SS01 Sub-slab Vapor 4/4/2023	MFD - IA01 Basement Air * 4/4/2023	MFD - IA02 First Floor Air 4/4/2023
Volatile Organic Compounds by Method TO15 (µg/m^3)							
trans-1,3-Dichloropropene	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91
Trichloroethene (TCE)	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Trichlorofluoromethane	**1.0 J**	**1.4**	**1.0 J**	**1.1**	**1.3**	**0.85 J**	**1.1**
Vinyl Bromide	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87
Vinyl Chloride	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51
Xylenes, Total	**1.0 J**	**1.2 J**	< 3.0	**2.1 J**	**73**	< 3.0	**100**

Key:
µg/m^3 = Micrograms per cubic meter
J = Estimated value
U = Not detected (method detection limit shown)
Bold values denote positive detections.
* Basement ambient air sample collected from building crawlspace.

Key at end of table

Table 5-3 Analytical Results Summary for Soil Gas Samples
West Sayville Dry Cleaners Site, West Sayville, New York

Analyte	Location ID: SG-1 Sample Type: Duplicate Sample Matrix: Soil Gas Date: 5/15/2023	SG-1 Normal Soil Gas 5/15/2023
Volatile Organic Compounds by Method TO15 (µg/m^3)		
1,1,1-Trichloroethane (TCA)	< 1.1	< 12
1,1,2,2-Tetrachloroethane	< 1.4	< 15
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.46 J**	< 17
1,1,2-Trichloroethane	< 1.1	< 12
1,1-Dichloroethane	< 0.81	< 8.9
1,1-Dichloroethene	< 0.79	< 8.7
1,2,4-Trichlorobenzene	< 3.7 J	< 41 J
1,2,4-Trimethylbenzene	**0.48 J**	< 11
1,2-Dibromoethane (Ethylene Dibromide)	< 1.5	< 17
1,2-Dichlorobenzene	< 1.2	< 13
1,2-Dichloroethane	< 0.81	< 8.9
1,2-Dichloropropane	< 0.92	< 10
1,2-Dichlorotetrafluoroethane	< 1.4	< 15
1,3,5-Trimethylbenzene (Mesitylene)	< 0.98	< 11
1,3-Butadiene	**0.091 J**	< 4.9
1,3-Dichlorobenzene	< 1.2	< 13
1,4-Dichlorobenzene	< 1.2	< 13
1,4-Dioxane (P-Dioxane)	< 18	< 200
2,2,4-Trimethylpentane	**0.45 J**	< 10
2-Chlorotoluene	< 1.0	< 11
2-Hexanone	**1.1 J**	**240 J**
4-Ethyltoluene	< 0.98	< 11
Acetone	**32 J**	**1200 J**
Allyl Chloride (3-Chloropropene)	< 1.6	< 17
Benzene	**0.47 J**	< 7.0
Benzyl Chloride	< 1.0	< 11
Bromodichloromethane	< 1.3	< 15
Bromoform	< 2.1	< 23
Bromomethane	< 0.78	< 8.5
Butane	**1.4 J**	**44 J**
Carbon Disulfide	< 1.6	< 17
Carbon Tetrachloride	**0.35 J**	< 14
Chlorobenzene	< 0.92	< 10
Chlorodifluoromethane	**0.83 J**	< 19
Chloroethane	< 1.3	< 15
Chloroform	< 0.98	< 11
Chloromethane (Methyl Chloride)	**0.95 J**	< 11
Cis-1,2-Dichloroethylene	< 0.79	< 8.7

Key at end of table

Table 5-3 Analytical Results Summary for Soil Gas Samples
West Sayville Dry Cleaners Site, West Sayville, New York

Analyte	Location ID: SG-1 Sample Type: Duplicate Sample Matrix: Soil Gas Date: 5/15/2023	SG-1 Normal Soil Gas 5/15/2023
Volatile Organic Compounds by Method TO15 (µg/m^3)		
Cis-1,3-Dichloropropene	< 0.91	< 10
Cyclohexane	**0.32 J**	< 7.6
Cymene (4-Isopropyltoluene)	< 1.1	< 12
Dibromochloromethane	< 1.7	< 19
Dichlorodifluoromethane	**1.4 J**	< 27
Dichloroethylenes	< 1.6	< 17
Ethylbenzene	**0.41 J**	< 9.6
Hexachlorobutadiene	< 2.1	< 23
Isopropanol	< 12	< 140
Isopropylbenzene (Cumene)	< 0.98	< 11
m,p-Xylene	**1.3 J**	< 24
Methyl Ethyl Ketone (2-Butanone)	**6.8 J**	**4400 J**
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	< 2.0	< 23
Methyl Methacrylate	< 2.0	< 23
Methylene Chloride	**1.5 J**	< 19
Naphthalene	< 2.6 J	< 29 J
N-Butylbenzene	< 1.1	< 12
N-Heptane	**0.70 J**	**17 J**
N-Hexane	**0.89 J**	**12 J**
N-Propylbenzene	< 0.98	< 11
O-Xylene (1,2-Dimethylbenzene)	**0.45 J**	< 9.6
Sec-Butylbenzene	< 1.1	< 12
Styrene	< 0.85	< 9.4
T-Butylbenzene	< 1.1	< 12
Tert-Butyl Alcohol	< 15	< 170
Tert-Butyl Methyl Ether	< 0.72	< 7.9
Tetrachloroethylene (PCE)	< 1.4	< 15
Tetrahydrofuran	< 15	< 160
Toluene	**1.9 J**	**13 J**
Trans-1,2-Dichloroethene	< 0.79	< 8.7
Trans-1,3-Dichloropropene	< 0.91	< 10
Trichloroethylene (TCE)	< 1.1	< 12
Trichlorofluoromethane	**1.0 J**	< 12
Vinyl Bromide	< 0.87	< 9.6
Vinyl Chloride	< 0.51	< 5.6
Xylenes	**1.8 J**	< 33

Key:

< = Not detected (lab reporting limit shown)

Bold values denote positive detections.

µg/m^3 = Micrograms per cubic meter

J = Estimated value

UJ =Estimated value, not detected (method detection limit shown)

Key at end of table



Location ID:	MW-1B	MW-1B
Sample Type:	Duplicate	Normal
Depth:	25 - 30 ft	25 - 30 ft
Date:	6/20/2023	6/20/2023
Analyte	Screening Criteria[1]	
Arsenic	25	2.7	2.9
Barium	1000	7.9	8.3
Calcium	N/A	32700	30700
Cobalt	N/A	0.85 J	0.87 J
Iron	300	6120	5860
Magnesium	35000	4000	3840
Manganese	300	46.5	43.2
Nickel	100	1.3 J	1.2 J
Potassium	N/A	5290	5080
Sodium	20000	34200	32600
Perfluorobutanesulfonic acid (PFBS)	N/A	6.10	5.90
Perfluorobutanoic acid	N/A	4.23 J	4.20 J
Perfluorodecanoic acid (PFDA)	N/A	< 1.82	0.52 J
Perfluoroheptanoic acid (PFHpA)	N/A	2.68	2.60
Perfluorohexanesulfonic acid (PFHxS)	N/A	2.68	2.31
Perfluorohexanoic acid (PFHxA)	N/A	3.41	3.31
Perfluorononanoic acid (PFNA)	N/A	0.98 J	1.40 J
Perfluorooctanesulfonic acid (PFOS)	2.7	14.9 NJ	14.4
Perfluorooctanoic acid (PFOA)	6.7	12.7	12.5
Perfluoropentanoic Acid (PFPeA)	N/A	2.92 J	2.86 NJ

Note: MW-1A and MW-1C tested for VOCs only; none were detected.

Location ID:	MW-2A
Depth:	10 - 15 ft
Date:	6/20/2023
Analyte	Screening Criteria[1]	
cis-1,2-Dichloroethene	5	0.49 J
Aluminum	N/A	196
Barium	1000	44.3
Cadmium	5	0.43 J
Calcium	N/A	35300
Copper	200	4.5
Iron	300	186
Magnesium	35000	4680
Manganese	300	337
Nickel	100	3.5 J
Potassium	N/A	7980
Sodium	20000	49300
Zinc	2000	89.8
Perfluorobutanesulfonic acid (PFBS)	N/A	4.43
Perfluorobutanoic acid	N/A	4.81 J
Perfluorodecanoic acid (PFDA)	N/A	2.98
Perfluoroheptanoic acid (PFHpA)	N/A	2.70
Perfluorohexanesulfonic acid (PFHxS)	N/A	3.17
Perfluorohexanoic acid (PFHxA)	N/A	6.10
Perfluorononanoic acid (PFNA)	N/A	4.46
Perfluorooctane Sulfonamide (FOSA)	N/A	1.39 J
Perfluorooctanesulfonic acid (PFOS)	2.7	17.8
Perfluorooctanoic acid (PFOA)	6.7	13.4
Perfluoropentanoic Acid (PFPeA)	N/A	4.99

Note: MW-2B and MW-2C tested for VOCs only; none were detected.

Legend

- Site Boundary
- Monitoring Well Cluster Location

Well screen intervals:
A = 10-15 feet bgs
B = 25-30 feet bgs
C = 45-50 feet bgs

Key:
VOC and metals data results reported in micrograms per liter (µg/L)
PFAS data reported in nanograms per liter (ng/L)
-- = analyte not analyzed for
< = not detected (lab reporting limit shown)
J = estimated value
N/A = no available criteria
NJ = estimated value, presumptively identified

Bold values denote positive detections.
Shaded values indicate result exceeds screening criteria. 100

1. New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

Location ID:	MW-3A	MW-3B
Depth:	10 - 15 ft	25 - 30 ft
Date:	6/20/2023	6/20/2023
Analyte	Screening Criteria[1]		
Benzene	1	0.39 J	< 1.0
Barium	1000	--	13.8
Calcium	N/A	--	25500
Magnesium	35000	--	4740
Manganese	300	--	24.7
Potassium	N/A	--	3190
Selenium	10	--	0.63 J
Sodium	20000	--	30100
Perfluorobutanesulfonic acid (PFBS)	N/A	--	12.4
Perfluorobutanoic acid	N/A	--	6.16 J
Perfluoroheptanesulfonic acid (PFHpS)	N/A	--	0.56 J
Perfluoroheptanoic acid (PFHpA)	N/A	--	10.3
Perfluorohexanesulfonic acid (PFHxS)	N/A	--	3.39
Perfluorohexanoic acid (PFHxA)	N/A	--	14.9 NJ
Perfluorononanoic acid (PFNA)	N/A	--	3.09
Perfluorooctanesulfonic acid (PFOS)	2.7	--	14.9 NJ
Perfluorooctanoic acid (PFOA)	6.7	--	28.4
Perfluoropentanesulfonic Acid (PFPeS)	N/A	--	0.77 NJ
Perfluoropentanoic Acid (PFPeA)	N/A	--	12.9

Note: MW-3C tested for VOCs only; none were detected.

Location ID:	MW-4A
Depth:	10 - 15 ft
Date:	6/20/2023
Analyte	Screening Criteria[1]	
Vinyl chloride	2	0.20 J

Note: MW-4B and MW-4C tested for VOCs only; none were detected.

2020 aerial imagery. Source: New York State GIS Clearinghouse (https://orthos.dhses.ny.gov/)

NEW YORK STATE Department of Environmental Conservation

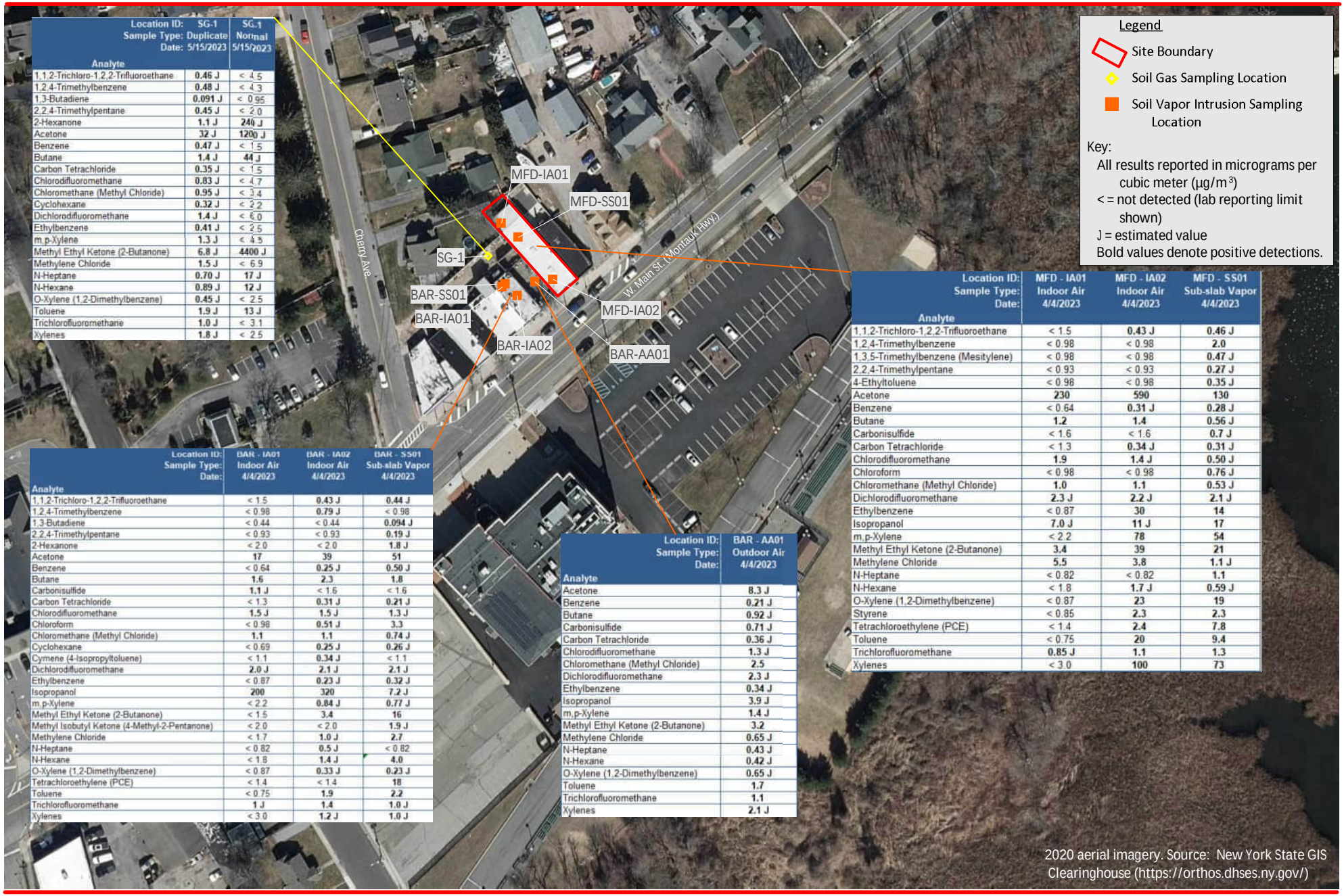
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feet

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Figure 6
Analytical Detections in Groundwater Samples
West Sayville Dry Cleaners Site
61 West Main Street
West Sayville, New York



Location ID:	SG-1	SG-1
Sample Type:	Duplicate	Normal
Date:	5/15/2023	5/15/2023
Analyte		
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.46 J	< 4.5
1,2,4-Trimethylbenzene	0.48 J	< 4.3
1,3-Butadiene	0.091 J	< 0.95
2,2,4-Trimethylpentane	0.45 J	< 2.0
2-Hexanone	1.1 J	240 J
Acetone	32 J	1200 J
Benzene	0.47 J	< 1.5
Butane	1.4 J	44 J
Carbon Tetrachloride	0.35 J	< 1.5
Chlorodifluoromethane	0.83 J	< 4.7
Chloromethane (Methyl Chloride)	0.95 J	< 3.4
Cyclohexane	0.32 J	< 2.2
Dichlorodifluoromethane	1.4 J	< 6.0
Ethylbenzene	0.41 J	< 2.5
m,p-Xylene	1.3 J	< 4.5
Methyl Ethyl Ketone (2-Butanone)	6.8 J	4400 J
Methylene Chloride	1.5 J	< 6.9
N-Heptane	0.70 J	17 J
N-Hexane	0.89 J	12 J
O-Xylene (1,2-Dimethylbenzene)	0.45 J	< 2.5
Toluene	1.9 J	13 J
Trichlorofluoromethane	1.0 J	< 3.1
Xylenes	1.8 J	< 2.5

Location ID:	BAR - IA01	BAR - IA02	BAR - SS01
Sample Type:	Indoor Air	Indoor Air	Sub-slab Vapor
Date:	4/4/2023	4/4/2023	4/4/2023
Analyte			
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1.5	0.43 J	0.44 J
1,2,4-Trimethylbenzene	< 0.98	0.79 J	< 0.98
1,3-Butadiene	< 0.44	< 0.44	0.094 J
2,2,4-Trimethylpentane	< 0.93	< 0.93	0.19 J
2-Hexanone	< 2.0	< 2.0	1.8 J
Acetone	17	39	51
Benzene	< 0.64	0.25 J	0.50 J
Butane	1.6	2.3	1.8
Carbonisulfide	1.1 J	< 1.6	< 1.6
Carbon Tetrachloride	< 1.3	0.31 J	0.21 J
Chlorodifluoromethane	1.5 J	1.5 J	1.3 J
Chloroform	< 0.98	0.51 J	3.3
Chloromethane (Methyl Chloride)	1.1	1.1	0.74 J
Cyclohexane	< 0.69	0.25 J	0.26 J
Cymene (4-Isopropyltoluene)	< 1.1	0.34 J	< 1.1
Dichlorodifluoromethane	2.0 J	2.1 J	2.1 J
Ethylbenzene	< 0.87	0.23 J	0.32 J
Isopropanol	200	320	7.2 J
m,p-Xylene	< 2.2	0.84 J	0.77 J
Methyl Ethyl Ketone (2-Butanone)	< 1.5	3.4	16
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	< 2.0	< 2.0	1.9 J
Methylene Chloride	< 1.7	1.0 J	2.7
N-Heptane	< 0.82	0.5 J	< 0.82
N-Hexane	< 1.8	1.4 J	4.0
O-Xylene (1,2-Dimethylbenzene)	< 0.87	0.33 J	0.23 J
Tetrachloroethylene (PCE)	< 1.4	< 1.4	18
Toluene	< 0.75	1.9	2.2
Trichlorofluoromethane	1 J	1.4	1.0 J
Xylenes	< 3.0	1.2 J	1.0 J

Location ID:	BAR - AA01
Sample Type:	Outdoor Air
Date:	4/4/2023
Analyte	
Acetone	8.3 J
Benzene	0.21 J
Butane	0.92 J
Carbonisulfide	0.71 J
Carbon Tetrachloride	0.36 J
Chlorodifluoromethane	1.3 J
Chloromethane (Methyl Chloride)	2.5
Dichlorodifluoromethane	2.3 J
Ethylbenzene	0.34 J
Isopropanol	3.9 J
m,p-Xylene	1.4 J
Methyl Ethyl Ketone (2-Butanone)	3.2
Methylene Chloride	0.65 J
N-Heptane	0.43 J
N-Hexane	0.42 J
O-Xylene (1,2-Dimethylbenzene)	0.65 J
Toluene	1.7
Trichlorofluoromethane	1.1
Xylenes	2.1 J

Location ID:	MFD - IA01	MFD - IA02	MFD - SS01
Sample Type:	Indoor Air	Indoor Air	Sub-slab Vapor
Date:	4/4/2023	4/4/2023	4/4/2023
Analyte			
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1.5	0.43 J	0.46 J
1,2,4-Trimethylbenzene	< 0.98	< 0.98	2.0
1,3,5-Trimethylbenzene (Mesitylene)	< 0.98	< 0.98	0.47 J
2,2,4-Trimethylpentane	< 0.93	< 0.93	0.27 J
4-Ethyltoluene	< 0.98	< 0.98	0.35 J
Acetone	230	590	130
Benzene	< 0.64	0.31 J	0.28 J
Butane	1.2	1.4	0.56 J
Carbonisulfide	< 1.6	< 1.6	0.7 J
Carbon Tetrachloride	< 1.3	0.34 J	0.31 J
Chlorodifluoromethane	1.9	1.4 J	0.50 J
Chloroform	< 0.98	< 0.98	0.76 J
Chloromethane (Methyl Chloride)	1.0	1.1	0.53 J
Dichlorodifluoromethane	2.3 J	2.2 J	2.1 J
Ethylbenzene	< 0.87	30	14
Isopropanol	7.0 J	11 J	17
m,p-Xylene	< 2.2	78	54
Methyl Ethyl Ketone (2-Butanone)	3.4	39	21
Methylene Chloride	5.5	3.8	1.1 J
N-Heptane	< 0.82	< 0.82	1.1
N-Hexane	< 1.8	1.7 J	0.59 J
O-Xylene (1,2-Dimethylbenzene)	< 0.87	23	19
Styrene	< 0.85	2.3	2.3
Tetrachloroethylene (PCE)	< 1.4	2.4	7.8
Toluene	< 0.75	20	9.4
Trichlorofluoromethane	0.85 J	1.1	1.3
Xylenes	< 3.0	100	73

Legend

- Site Boundary
- Soil Gas Sampling Location
- Soil Vapor Intrusion Sampling Location

Key:

All results reported in micrograms per cubic meter (µg/m³)

< = not detected (lab reporting limit shown)

J = estimated value

Bold values denote positive detections.

2020 aerial imagery. Source: New York State GIS Clearinghouse (https://orthos.dhses.ny.gov/)

NEW YORK STATE Department of Environmental Conservation

ecology and environment engineering and geology, p.c.

N

feet

0 100 200

Figure 7

Analytical Detections in Soil Vapor Intrusion and Soil Gas Samples

West Sayville Dry Cleaners Site

61 West Main Street

West Sayville, New York

6 Fate and Transport

6.1 Introduction

Due to the very low levels of site-related contamination observed during this RI investigation, a detailed fate and transport section has not been prepared. Chlorinated VOCs were identified as the potential contaminants of concern during previous investigations, consistent with historical use of the site as a drycleaning facility. The only compounds detected during this RI at concentrations exceeding applicable standards or guidance documents are compounds that are not believed to be associated with a release from the former dry cleaner.

6.1.1 Groundwater

The primary contaminants which were expected to be seen at the site were PCE and TCE. PCE was only detected at one location, MW-2A, at an estimated concentration of 1.0 µg/L, and TCE was not detected in groundwater. The only other VOCs detected were benzene, cis-1,2-dichloroethene, and vinyl chloride, all below groundwater standards. No exceedances of 1,4-dioxane, SVOCs, pesticides, PCBs or herbicides were observed. Metals exceedances were limited to the ubiquitous secondary metals iron, manganese, and sodium. There is no evidence of a release of these metals associated with the former dry cleaner.

PFOS and PFOA were both detected in groundwater above the guidance values. They were present at similar concentrations in all wells tested.

6.1.2 Soil Vapor Intrusion

Chlorinated VOC concentrations were either non-detect or present at very low concentrations in soil gas/vapor and ambient air samples. Evaluation of the results with respect to the NYDOH Soil Vapor / Indoor Air Decision Matrices indicates no further actions are needed for all compounds except for ethylbenzene, m,p-xylenes, and o-xylene when comparing the sub-slab vapor and first-floor air sample results. Comparing concentrations in the sub-slab vapor and the first-floor air samples for ethylbenzene, m,p-xylenes, and o-xylene at the site building to the NYSDOH decision matrices suggests a response action of “identify source(s) and resample or mitigate.” However, when comparing the concentrations of these compounds in the sub-slab vapor sample and basement air sample, the response action is “no further action.” The concentrations of ethylbenzene were 30 µg/m^3 in MFD-IA02, the first-floor indoor air sample, non-detect in MFD-IA01, the basement indoor air sample, and 14 µg/m^3 in MFD-SS01, the sub-slab vapor sample. The concentrations of m,p-

xylenes were 78 µg/m^3 in the first floor indoor air sample, non-detect in the basement indoor air sample, and 54 µg/m^3 in the sub-slab vapor sample. The concentrations of o-xylene were 23 µg/m^3 in the first floor air sample, non-detect in the basement air sample, and 19 µg/m^3 in the sub-slab vapor sample. These findings suggest that soil vapor intrusion is not a pathway of concern and that the presence of ethylbenzene and xylenes in the first-floor air of the site building may be at least partially the result of wood finishing product storage and usage in the building at the time of sampling. Specific products that were inventoried on the first floor that may have influenced the concentration levels of ethylbenzene and xylenes include paint primer, wood stain, and satin polyurethane topcoat. Ketones detected in soil gas on the exterior of the west side of the site building may also have been related to then-current building operations, which have since ceased, but not past drycleaning operations.

6.1.3 Soil

The primary contaminants of concern, PCE and daughter products, were present in shallow soil samples near the rear exterior of the building. However, all of the detected concentrations of PCE, TCE, and cis-/trans-1,2-dichloroethene in soil were below protection of groundwater SCOs. These compounds were not detected in groundwater, or present at very low levels, on the downgradient side of the site. Therefore, migration of contaminants from potential source areas to groundwater does not appear to be occurring.

Analytes detected in groundwater in contravention of NYSDEC groundwater standards and guidance values included common metals (iron, manganese, and sodium) and PFAS compounds (PFOA and PFOS) that are not generally attributable to dry cleaning operations and likely represent background.

No significant contaminant source areas were identified in site soil and leaching of contaminants to groundwater does not appear to be a concern at this site.

7 Qualitative Human Health Exposure Assessment

In accordance with NYSDEC DER-10 Appendix 3B, a qualitative Human Health Exposure Assessment (QHHEA) has been conducted to evaluate and document how people might be exposed to site-related contaminants, and to identify and characterize the potentially exposed population(s) now and under the reasonably anticipated future use of the site. This QHHEA considers the nature of populations currently exposed or that have the potential to be exposed to site related contaminants both on- and off-site.

Based on the sampling performed by BEI in 2011 that addressed, soil, groundwater, soil gas and indoor air/sub-slab sampling, and E & E's 2023 groundwater, soil gas and indoor air/sub-slab sampling, no complete exposure pathways have been identified.

A summary of each media and the findings is included below:

Soil Contact Exposure Pathway
As described in Section 1.2.2, remedial efforts from 2000 to 2002 removed contaminated soil from the rear (north) end of the building during three excavation events. Per SCDHS files, two sidewall samples collected from the excavations still contained PCE when they finished remedial activities. Additional remedial measures implemented by the former owner included operation of a soil vapor extraction system. Operational parameters for this system are not available, but it was still present and operating in early 2010. In 2011 BEI conducted a soil sampling event to evaluate remaining PCE and no VOCs were observed in the soils onsite. Of the six borings advanced, none of the borings indicated detections of the targeted drycleaning chemicals or detections of any other VOC compounds above the laboratory detection limits. All reporting limits were compared during the preparation of this report to the current NYS Part 375 Unrestricted, Commercial, and Protection of Groundwater SCOs and all were below the most stringent SCOs. No other analytical results were reported during prior studies.

As discussed in Section 5.5.1 a soil investigation was performed by NYSDEC. The primary contaminants of concern, PCE and daughter products, were present in multiple soil samples collected by NYSDEC in October 2025 near the rear exterior of the building. However, all of the detected values of PCE, TCE, and cis-/trans-1,2-

dichloroethene were below unrestricted SCOs and therefore not anticipated to represent a direct contact or ingestion hazard to site workers or trespassers. Acetone was detected in some shallow soil samples at concentrations exceeding the unrestricted use/protection of groundwater SCOs. It was not determined if the presence of acetone was associated with laboratory contamination or incidental spills from site activities after cessation of dry cleaning operations when wood furniture refinishing was occurring. The presence of some pesticides (cis-chlordane and 4,4'-DDT), PFAS compounds (PFOS and PFOA), and metals (copper, lead, and zinc) at concentrations above unrestricted SCOs but below commercial SCOs are not typically associated with dry cleaning operations and likely represent local background conditions. The infrequent exposure to the relatively low levels of these compounds to site workers or trespassers (samples were collected on the site property parcel) are not anticipated to represent a significant acute or chronic risk.

The rear of the building where VOCs were observed during prior investigations in soil, has limited access to the area and is restricted to commercial occupants and possibly future site workers. Concrete and pavement in front of the building are present and in good shape. Therefore, no significant direct contact with soils is expected under current site usage constraints. If the building were to be demolished or otherwise significantly modified in the future, no significant exposure pathway is anticipated as soil sampling has indicated no elevated VOCs remain in the soils above the NYSDEC soil cleanup objectives. Based on the lack of VOC detections on-site, which was the source area, no off-site exposures are interpreted to exist.

Inhalation Pathway

For inhalation exposure assessment, potential receptors would include current and future employees, as well as occupants of adjacent structures.

Vapor intrusion sampling performed in 2010 did not identify any response actions based on col-located sub-slab vapor and indoor air samples collected from neighboring structures (BEI 2011). Various VOCs were detected in indoor air and/or sub-slab vapor samples, including petroleum related compounds and chlorinated VOCs, but all at relatively low levels that did not warrant mitigation. PCE was detected three of four indoor air samples and all four sub-slab vapor samples at concentrations of 3.25 $\mu g/m^3$ except at sub-slab vapor location DDRSS-10 (28.9 $\mu g/m^3$) and indoor air location DDRIA-10 (45.0 $\mu g/m^3$). The PCE concentration detected in indoor air was higher than the sub-slab vapor concentration and the determination was made that the indoor air quality was impacted by discharge from the SVE system at the dry cleaners. The SVE system is no longer in operation or present, and as such there is no exposure to contaminated SVE system discharge.

Vapor intrusion sampling performed in 2023 for this investigation showed no detections of PCE in indoor air at a nearby building (Property 1). Indoor air samples from the site building were 2.4 $\mu g/m^3$ on the first floor and non-detect in the basement. Sub-slab vapor concentrations of PCE were 18 $\mu g/m^3$ at a nearby building and 7.8 $\mu g/m^3$ at the site building. Various other VOCs were also detected in indoor air and/or sub-slab vapor but at relatively low concentrations that did not warrant a

response action at the former drycleaner or Property 1, based on comparison with NYSDOH Soil Vapor / Indoor Air Decision Matrices. There were three petroleum-related compounds detected at the former drycleaner building (ethylbenzene at 14 µg/m^3 in the sub-slab vapor, non-detect in basement air, and 30 µg/m^3 in the first-floor air; m,p-xylenes at 54 µg/m^3 in sub-slab vapor, non-detect in basement air, and 78 µg/m^3 in first-floor air; and o-xylene at 19 µg/m^3 in sub-slab vapor, non-detect in basement air, and 23 µg/m^3 in first-floor air) that suggest a response action of "identify source(s) and resample or mitigate" based on NYSDOH February 2024 Soil Vapor/Indoor Air matrices. However, these compounds were not detected in the basement air sample and were higher on the first floor compared to the sub-slab. This suggests an indoor air source believed to be associated with then-current building usage for wood finishing and first-floor storage and usage of products including paint primer, wood stain, and satin polyurethane. As such, the vapor intrusion pathway is considered incomplete, and no further action is warranted.

During the 2023 investigation, access was denied for sampling at one of the off-site properties where concentrations of PCE in DDRIA-10 were higher than DDRSS-10. Therefore, although the BEI 2011 RIR indicates that actions were taken to mitigate the IA conditions inside the adjacent building location, that could not be directly verified. However, as noted above, the indoor air concentration was believed to have been impacted by SVE system discharge and that system is no longer operating or present

In 2010 one soil gas sample was collected by BEI immediately adjacent to the west side of the site building and behind the adjacent building. Analytical results indicated detections of 17 compounds less than 10 µg/m^3 with the exception of toluene at 33.8 µg/m^3 and m,p-xylenes at 16.5 µg/m^3. The 2023 investigation included one soil gas sample from a similar area at a depth of 10 feet in native soil. No chlorinated solvents typically associated with dry cleaning operations were detected in this sample. There was a discrepancy between the original and field duplicate sample results (see Section 4); however, there were a total of 19 compounds detected in the duplicate soil gas sample at concentrations of 1.8 µg/m^3 or less. The original (normal) sample was diluted and only showed estimated concentrations of 2-hexanone (240 µg/m^3), acetone (1,200 µg/m^3), butane (44 µg/m^3), methyl ethyl ketone (4,400 µg/m^3), n-heptane (17 µg/m^3), n-hexane (12 µg/m^3), and toluene (13 µg/m^3). As a result of this discrepancy between the samples, NYSDEC conducted a PID study (see Appendix J). Several locations within the vicinity of the soil gas sample were screened for VOCs using a PID. No readings above local background were detected in the test holes.

Based on these findings, there are no on-Site vapor impacts from former drycleaning activities and detections of petroleum-based compounds are consistent with building use and product storage at the time of sampling. Based on the current data from the 2023 sampling event, there are no vapor impacts in Property 1. Access was not granted at one nearby property; however, during the 2010 investigation, the highest concentrations of PCE was in indoor air and the report indicated that the likely source of this PCE was discharge from the SVE system at the former

drycleaner, which has been decommissioned. Therefore, there does not appear to be a complete off-site exposure pathway for inhalation.

Groundwater Pathway

The Suffolk County Water Authority was contacted by phone to identify water supply wells in the vicinity of the site. Three wells (pumping stations) were reported to be in the Sayville area. They are 1.8 miles northwest of the site, 2 miles north-northeast of the site, and 2.3 miles northeast of the site. All are deep groundwater extraction points but the aquifer from which they draw was not identified. Based on the locations of the wells upgradient of the site, they would not be impacted by shallow groundwater or surface water near the site. There is no indication of groundwater use at the site or locally for any domestic, commercial, or recreational activities. The BEI investigation conducted in 2002 found PCE as high as 275 µg/L and TCE as high as 60.8 µg/L in groundwater behind the former dry cleaning building. In 2005 three groundwater monitoring wells were sampled downgradient from the Site. PCE was detected ranging from 2.4 µg/L to 15 µg/L, while other VOCs were detected but at lower concentrations. In 2010 a more comprehensive groundwater investigation was conducted at 10 locations from around the Site and downgradient of it in the parking lot across the street and in the right of way (BEI 2011).Samples were collected from multiple depths and analytical results indicated that only two locations located in the parking lot downgradient of the site, at the middle depth interval, had detections above NYSDEC standards or guidance values. PCE was detected at a maximum concentration of 20 µg/L with lower concentrations detected of cis-1,2,-dichloroethene, TCE, vinyl chloride, and chloroform. The 2023 investigation of downgradient groundwater showed only trace amounts of benzene, cis-1,2-dichloroethene, PCE, and vinyl chloride were detected in the shallowest interval sampled, at concentrations of 1 µg/L or less. In addition, three of 12 groundwater samples collected were also tested for the full target compound/analyte list, including PFAS. PFAS compounds, including PFOS at a maximum concentration of 17.8 ng/L and PFOA at a maximum concentration of 28.4 ng/L, were detected in groundwater downgradient of the site building above the human health criteria (source of drinking water) guidance values. Eleven other PFAS compounds were detected in at least one of the samples with a maximum concentration of 14.9 ng/L (see Table 5-1) The only metals detected in unfiltered groundwater samples at concentrations exceeding NYSDEC groundwater standards were iron, manganese, and sodium. The standards for iron and manganese are based on aesthetics. The standard for sodium is based on health effects but the proximity of the site to saline sea water suggests that these concentrations are naturally occurring and related to tidal saltwater intrusion. Therefore, the presence of these metals are not expected to represent an off-site, direct-contact, groundwater hazard. Twelve other metals were detected in one or more of the groundwater samples at concentrations below NYSDEC groundwater standards or for which there is no standard or guidance value including aluminum, arsenic, barium, cadmium, calcium, cobalt, copper, magnesium, nickel, potassium, selenium, and zinc. Groundwater analytical results for SVOCs, pesticides, herbicides, PCBs, and 1-4, dioxane were all non-detect. Direct contact criteria for PFAS are not available, but based on the depth below ground surface that these compounds were identified, 10 feet or

greater, and the lack of access to the water by individuals or municipal water purveyors, as the site and surrounding areas are served by public water that is not affected by this contamination, groundwater use is not expected to be a potential pathway of concern on or off-site.

Discharge to Groundwater and Surface Water

Shallow groundwater from the site is expected to discharge to Green's Creek, located about 1,300 feet southeast of the Site. No drycleaning related or other volatile organic compounds were identified in groundwater between the creek and Site during the 2023 sampling event; therefore, no site impacts to surface water are expected from VOCs. It is possible that the presence of PFAS compounds in the shallow groundwater may be discharging to Green’s Creek; however, the area between monitoring wells MW-4 / MW-3 and the creek is inaccessible for mechanical drilling making further evaluation difficult. Groundwater discharges to Green’s Creek are expected to be diluted upon entry to the surface water. Therefore, the concentration of PFOA (the only PFAS compound for which a saline surface water guidance value exists in New York) is not expected to increase upon discharge and the maximum concentration of PFOA in groundwater (28.4 ng/L) is below the saline surface water guidance value of 41,000 ng/L. As such, no on-site or off-site impacts are anticipated from former drycleaning activities.

8 Summary and Conclusions

8.1 Project Summary

E & E completed an RI at the West Sayville Dry Cleaners site that included a scoping session and initial site visit; a review of available records; groundwater monitoring well installation and groundwater sampling; soil vapor intrusion investigation and soil gas sampling; surveying and mapping programs; IDW management, and report preparation. The investigation began in April 2023 with the site reconnaissance and soil vapor sampling, followed by monitoring well installation, soil gas sampling, and groundwater sampling in June 2023. Waste disposal activities occurred in August 2023.

Analytical services were provided by Eurofins. Data validation and the survey of newly installed monitoring wells was performed by E & E. Drilling and waste management services were provided by LAWES. Innovative Recycling Technologies provided waste transportation and disposal services.

Following the completion of E & E's field investigations, NYSDEC provided PID screening report and a *Soil Assessment Report* which documented the collection and analytical findings of soil samples collected from seven hand auger soil borings collected from the unimproved area behind the building.

8.2 Analytical Results Summary

A total of 12 groundwater samples from three depth intervals within the overburden were collected during this RI. Four VOCs (benzene, cis-1,2-dichloroethene, PCE, and vinyl chloride) were detected in the monitoring wells, none of which at concentrations exceeding NYSDEC Class GA groundwater standards. In all cases the VOCs were detected in the shallowest "A" interval sample. Fifteen metals were detected in the groundwater samples. Of these only iron, manganese, and sodium were detected at concentrations exceeding NYSDEC Class GA groundwater standards. These metals are considered ubiquitous secondary metals that are not related to past site operations. Thirteen PFAS compounds were detected in the groundwater samples. The observed concentrations of PFOS and PFOA (maximum concentrations of 17.8 and 28.4 ng/L, respectively) are likely indicative of background or an off-site release and not related to former drycleaning operations because no significant concentrations of site-related chlorinated VOCs were present in groundwater. No other contaminants were detected in groundwater.

A total of 32 VOCs were detected in sub-slab vapor and/or ambient air samples collected from the former dry cleaners and Property 1. The concentration of total chlorinated VOCs in this sample ranged from non-detect to 18 µg/m^3, with PCE detected at the highest concentrations. The sub-slab vapor concentrations of PCE were 18 and 7.8 µg/m^3 in the two buildings and associated indoor air concentrations were non-detect or very low. Based on the NYSDOH soil vapor intrusion decision matrices, no further action is recommended. It was observed that for most compounds detected at the site building, the concentrations were higher in first-floor air sample than in the basement (crawlspace) air sample, indicating a lack of vapor intrusion and probable indoor air sources. This is consistent with the building's recent use. Therefore, although the concentrations of ethylbenzene and xylenes may suggest a response action of "identify source(s) or resample or mitigate," no further action is recommended other than suggesting that the current building user employ better housekeeping procedures.

Acetone was detected at a maximum concentration of 590 µg/m^3 in indoor air at the Site building (higher than the sub-slab vapor concentrations). and is likely related to current site use as a woodworking and design facility.

A soil gas sample was collected west of the site building to evaluate the need to perform offsite soil vapor intrusion investigation. Because of the discrepancy between the normal and duplicate soil gas samples, NYSDEC performed an offsite investigation in 2024 to screen soil vapor using a PID. No elevated measurements were observed that would indicate a source in this area. NYSDEC's report is provided in Appendix J. Dry cleaning-related chlorinated VOCs were not detected in either of the 2023 soil gas samples (normal and duplicate). Only low concentrations of compounds not typically associated with drycleaning (i.e., no chlorinated alkanes or alkenes were present) were present in the duplicate soil gas sample. Elevated concentrations of acetone (1,200 µg/m^3) and methyl ethyl ketone (4,400 µg/m^3) were detected in the normal (original) soil gas sample. Vaporization from groundwater contamination may also contribute to soil vapor intrusion at downgradient properties. Groundwater at the site was not contaminated by VOCs and flows to the southeast. Therefore, no additional offsite soil vapor intrusion sampling at residential properties to the west of the site is warranted.

Fifteen metals were detected in the groundwater samples. Of these only iron, manganese, and sodium were detected at concentrations exceeding NYSDEC Class GA groundwater standards. These metals are considered ubiquitous secondary metals that are not related to past site operations. Thirteen PFAS compounds were detected in the groundwater samples. The observed concentrations of PFOS and PFOA (maximum concentrations of 17.8 and 28.4 ng/L, respectively) are likely indicative of background or an off-site release and not related to former drycleaning operations because no significant concentrations of site-related chlorinated VOCs were present in groundwater. No other contaminants were detected in groundwater.
A total of 17 soil samples from three depth intervals were collected by NYSDEC. Nine VOCs were detected in at least one of the soil samples; however, acetone was

the only VOC detected in the soil samples above the unrestricted use SCOs, and none of the concentrations exceeded the commercial SCOs. Fifteen SVOCs were detected in at least one of the soil samples and all concentrations were below the unrestricted use SCOs. Six pesticides were detected in at least one of the soil samples with only cis-chlordane and 4,4'-DDT present above the unrestricted use but below the protection of groundwater and commercial SCOs. A total of 22 PFAS compounds were detected in soil samples; however, only PFOA and PFOS have guidance values for comparison and these compounds were both present above the unrestricted use and protection of groundwater guidance values, but below the commercial guidance value. Twenty metals were detected; however copper, lead, and zinc were the only metals detected above the unrestricted use SCO but below the protection of groundwater and commercial SCOs.

8.3 Fate and Transport and Risk Evaluation

No significant environmental concerns attributable to the former drycleaning operations at the Site were identified. Past detections of chlorinated solvents at the site were not present at significant levels during this RI. There are no known groundwater uses directly downgradient of the site and soil vapor intrusion does not appear to be a complete pathway; therefore, no adverse health effects associated with site-related contaminants are anticipated.

8.4 Conclusions

There were no VOCs or other contaminants detected in groundwater at elevated concentrations exceeding NYSDEC Class GA groundwater standards or guidance values except for three ubiquitous secondary metals (iron, manganese, and sodium) and two PFAS compounds (PFOS and PFOA). The presence of these analytes in groundwater does not appear to be related to former drycleaning operations and may be attributable to background or an offsite source.

Based on the NYSDOH soil vapor intrusion decision matrices, no further action is required to address indoor air quality.

Chlorinated VOCs typically associated with dry cleaning operations were detected during previous investigations in the early to mid-2000's. Their absence during this RI suggests that past remedial efforts to remove sources and subsequent natural processes have reduced concentrations in groundwater and soil vapor to acceptable levels. However, further investigation of the source of PFAS compounds may be conducted if other data from upgradient of the site has not already been obtained.

8.5 Feasibility Study

A feasibility study report will be prepared and submitted at the request of NYSDEC. The feasibility study will address three possible alternatives.

Alternative 1: No action.

Alternative 2: Maintenance of Existing Cover System via a site management plan (SMP) including an environmental easement (EE) as part of the SMP. This alternative assumes capital costs would consist of development of an SMP and creation of an EE, and operations and maintenance (O&M) costs would consist of periodic review reports (PRRs) and confirmation that the existing cover (i.e. building footprint and undisturbed backyard soil) is maintained.

Alternative 3: Soil Excavation, Soil Vapor Intrusion Mitigation System, Groundwater Monitoring, and SMP. This alternative includes soil excavation of the full extent of the exposed soil area on the northwest side of the building down to the water table (estimated to be 8 feet). Temporary support of structures to accomplish the excavation will be included. Soil removal from under the building or onto neighboring properties will not be included. Soil vapor intrusion mitigation system capital costs will include design and installation of a sub-slab depressurization system in the portion of cellar with a slab and vapor barrier in the unpaved portion of the cellar. O&M will include periodic maintenance of the system and indoor air sampling to verify the system is functioning and addressing the VOC exceedances identified in the RI. Groundwater monitoring will include installation and periodic sampling of one upgradient and three downgradient wells near the structure to depths of 25 feet. .

All three alternatives will be evaluated against the public health protection remedial action objective (RAO) and the environmental protection RAO.

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A Historical Site Reports

Provided separately.

B Soil Boring Logs

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Drilling Log

BORING NO.: MW-1A

WELL NO.: MW-1A

CLIENT: New York State Department of Enivronmental Conservation	**PROJECT NO.:** EE1705007.0030
PROJECT: West Sayville Dry Cleaners	**DATE STARTED:** 5/16/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc.	**DATE FINISHED:** 5/16/2023
DRILLING METHOD: Hollow Stem Auger	**DRILLER:** K. McGourty
BOREHOLE DATA / **WELL DATA**	**INSPECTOR:** R. Briggs
Diameter (in): 6 / **Completion:** Flush	**NORTHING:** 206379.2987
Total Depth (ft.): 15 / **Total Depth (ft.):** 15	**EASTING:** 1235495.2209
Sampler: Macrocore / **Screen Length (ft.)/Slot (in):** 10/0.010	**GROUND ELEVATION:** 11.72
Depth to Water (ft.): 9.00 / **Depth to Water (ft.):** 8.73	**TOC ELEVATION:** 11.25
Depth to Rock (ft.): NA / **Permit No.:**	

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	1–5		SW				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little medium Gravel, moist.	**Sand**
▽	5–10		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, little medium Gravel, moist.	
	10		SW					Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-1A

WELL NO.: MW-1A

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	12		SW					Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	
	13								
	14								
	15							Total Depth of Boring 15 feet.	
	16								
	17								
	18								
	19								
	20								
	21								
	22								
	23								
	24								
	25								
	26								

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Drilling Log

BORING NO.: MW-1B

WELL NO.: MW-1B

CLIENT: New York State Department of Enivronmental Conservation	**PROJECT NO.:** EE1705007.0030
PROJECT: West Sayville Dry Cleaners	**DATE STARTED:** 5/16/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc.	**DATE FINISHED:** 5/16/2023
DRILLING METHOD: Hollow Stem Auger	**DRILLER:** K. McGourty
BOREHOLE DATA / **WELL DATA**	**INSPECTOR:** R. Briggs
Diameter (in): 6 / **Completion:** Flush	**NORTHING:** 206379.2987
Total Depth (ft.): 30 / **Total Depth (ft.):** 30	**EASTING:** 1235495.2209
Sampler: Macrocore / **Screen Length (ft.)/Slot (in):** 10/0.010	**GROUND ELEVATION:** 11.72
Depth to Water (ft.): 9.00 / **Depth to Water (ft.):** 8.67	**TOC ELEVATION:** 11.19
Depth to Rock (ft.): NA / **Permit No.:**	

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	1–5		SW				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little medium Gravel, moist.	**Sand**
	5–10		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, little medium Gravel, moist.	
▽	9–10		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace coarse to medium Gravel, wet.	

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Drilling Log

BORING NO.: MW-1B

WELL NO.: MW-1B

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	12–26		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace coarse to medium Gravel, wet.	

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Drilling Log

BORING NO.: MW-1B

WELL NO.: MW-1B

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	27		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace coarse to medium Gravel, wet.	
	28								
	29								
	30							Total Depth of Boring 30 feet.	
	31								
	32								
	33								
	34								
	35								
	36								
	37								
	38								
	39								
	40								
	41								

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Drilling Log

BORING NO.: MW-1C

WELL NO.: MW-1C

CLIENT: New York State Department of Enivronmental Conservation	**PROJECT NO.:** EE1705007.0030
PROJECT: West Sayville Dry Cleaners	**DATE STARTED:** 5/16/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc.	**DATE FINISHED:** 5/16/2023
DRILLING METHOD: Hollow Stem Auger	**DRILLER:** K. McGourty
BOREHOLE DATA / **WELL DATA**	**INSPECTOR:** R. Briggs
Diameter (in): 6 / **Completion:** Flush	**NORTHING:** 206379.2987
Total Depth (ft.): 50 / **Total Depth (ft.):** 50	**EASTING:** 1235495.2209
Sampler: Macrocore / **Screen Length (ft.)/Slot (in):** 10/0.010	**GROUND ELEVATION:** 11.72
Depth to Water (ft.): 9.00 / **Depth to Water (ft.):** 8.77	**TOC ELEVATION:** 11.30
Depth to Rock (ft.): NA / **Permit No.:**	

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	1–5		SW				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little medium Gravel, moist.	**Sand**
	5–10		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, little medium Gravel, moist.	
▽	10–		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-1C

WELL NO.: MW-1C

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	12–26		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-1C

WELL NO.: MW-1C

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	27		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	
	28								
	29								
	30		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, trace coarse to medium Gravel, wet.	
	31								
	32								
	33								
	34								
	35								
	36								
	37								
	38								
	39								
	40		SW				<1	Light olive gray (5Y 5/2), coarse to medium SAND, wet.	
	41								

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Drilling Log

BORING NO.: MW-1C

WELL NO.: MW-1C

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	42		SW				<1	Light olive gray (5Y 5/2), coarse to medium SAND, wet.	
	43								
	44								
	45								
	46								
	47								
	48								
	49								
	50							Total Depth of Boring 50 feet.	
	51								
	52								
	53								
	54								
	55								
	56								

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Drilling Log

BORING NO.: MW-2A

WELL NO.: MW-2A

CLIENT: New York State Department of Enivronmental Conservation	**PROJECT NO.:** EE1705007.0030
PROJECT: West Sayville Dry Cleaners	**DATE STARTED:** 5/17/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc.	**DATE FINISHED:** 5/17/2023
DRILLING METHOD: Hollow Stem Auger	**DRILLER:** K. McGourty
BOREHOLE DATA / **WELL DATA**	**INSPECTOR:** R. Briggs
Diameter (in): 6 / **Completion:** Flush	**NORTHING:** 206408.8903
Total Depth (ft.): 15 / **Total Depth (ft.):** 15	**EASTING:** 1235527.4092
Sampler: Macrocore / **Screen Length (ft.)/Slot (in):** 10/0.010	**GROUND ELEVATION:** 11.46
Depth to Water (ft.): 8.00 / **Depth to Water (ft.):** 7.77	**TOC ELEVATION:** 10.96
Depth to Rock (ft.): NA / **Permit No.:**	

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	1–5		SW				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little medium Gravel, moist.	**Sand**
▽	5–8		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, little medium Gravel, moist.	
	8–10		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-2A

WELL NO.: MW-2A

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	12		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	
	13								
	14								
	15							Total Depth of Boring 15 feet.	
	16								
	17								
	18								
	19								
	20								
	21								
	22								
	23								
	24								
	25								
	26								

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Drilling Log

BORING NO.: MW-2B

WELL NO.: MW-2B

CLIENT: New York State Department of Enivronmental Conservation	**PROJECT NO.:** EE1705007.0030
PROJECT: West Sayville Dry Cleaners	**DATE STARTED:** 5/17/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc.	**DATE FINISHED:** 5/17/2023
DRILLING METHOD: Hollow Stem Auger	**DRILLER:** K. McGourty

BOREHOLE DATA	**WELL DATA**	
Diameter (in): 6	**Completion:** Flush	**INSPECTOR:** R. Briggs
Total Depth (ft.): 30	**Total Depth (ft.):** 30	**NORTHING:** 206408.8903
Sampler: Macrocore	**Screen Length (ft.)/Slot (in):** 10/0.010	**EASTING:** 1235527.4092
Depth to Water (ft.): 8.00	**Depth to Water (ft.):** 7.99	**GROUND ELEVATION:** 11.46
Depth to Rock (ft.): NA	**Permit No.:**	**TOC ELEVATION:** 10.96

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	1–5		SW				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little medium Gravel, moist.	**Sand**
▽	5–10		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, little medium Gravel, moist.	
	10		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-2B

WELL NO.: MW-2B

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	12–26		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-2B

WELL NO.: MW-2B

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	27		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	
	28								
	29								
	30							Total Depth of Boring 30 feet.	
	31								
	32								
	33								
	34								
	35								
	36								
	37								
	38								
	39								
	40								
	41								

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Drilling Log

BORING NO.: MW-2C

WELL NO.: MW-2C

CLIENT: New York State Department of Enivronmental Conservation	**PROJECT NO.:** EE1705007.0030
PROJECT: West Sayville Dry Cleaners	**DATE STARTED:** 5/17/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc.	**DATE FINISHED:** 5/17/2023
DRILLING METHOD: Hollow Stem Auger	**DRILLER:** K. McGourty

BOREHOLE DATA	**WELL DATA**	
Diameter (in): 6	**Completion:** Flush	**INSPECTOR:** R. Briggs
Total Depth (ft.): 50	**Total Depth (ft.):** 50	**NORTHING:** 206409.0510
Sampler: Macrocore	**Screen Length (ft.)/Slot (in):** 10/0.010	**EASTING:** 1235527.4092
Depth to Water (ft.): 8.00	**Depth to Water (ft.):** 7.82	**GROUND ELEVATION:** 11.46
Depth to Rock (ft.): NA	**Permit No.:**	**TOC ELEVATION:** 10.88

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	1–5		SW				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little medium Gravel, moist.	**Sand**
▽	5–8		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, little medium Gravel, moist.	
	10		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-2C

WELL NO.: MW-2C

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	12–26		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-2C

WELL NO.: MW-2C

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	27–30		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	
	30–40		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, trace coarse to medium Gravel, wet.	
	40–41		SW				<1	Light olive gray (5Y 5/2), coarse to medium SAND, wet.	

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Drilling Log

BORING NO.: MW-2C

WELL NO.: MW-2C

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	42		SW				<1	Light olive gray (5Y 5/2), coarse to medium SAND, wet.	
	43								
	44								
	45								
	46								
	47								
	48								
	49								
	50							Total Depth of Boring 50 feet.	
	51								
	52								
	53								
	54								
	55								
	56								

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Drilling Log

BORING NO.: MW-3A

WELL NO.: MW-3A

CLIENT: New York State Department of Enivronmental Conservation	**PROJECT NO.:** EE1705007.0030
PROJECT: West Sayville Dry Cleaners	**DATE STARTED:** 5/19/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc.	**DATE FINISHED:** 5/19/2023
DRILLING METHOD: Hollow Stem Auger	**DRILLER:** K. McGourty
BOREHOLE DATA / **WELL DATA**	**INSPECTOR:** R. Briggs
Diameter (in): 6 / **Completion:** Flush	**NORTHING:** 206284.6338
Total Depth (ft.): 15 / **Total Depth (ft.):** 15	**EASTING:** 1235766.4979
Sampler: Macrocore / **Screen Length (ft.)/Slot (in):** 10/0.010	**GROUND ELEVATION:** 10.36
Depth to Water (ft.): 8.00 / **Depth to Water (ft.):** 7.77	**TOC ELEVATION:** 9.81
Depth to Rock (ft.): NA / **Permit No.:**	

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	1–5		SW				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little medium Gravel, moist.	**Sand**
▽	5–10		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, little medium Gravel, moist.	
	10		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-3A

WELL NO.: MW-3A

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	12		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	
	13								
	14								
	15							Total Depth of Boring 15 feet.	
	16								
	17								
	18								
	19								
	20								
	21								
	22								
	23								
	24								
	25								
	26								

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Drilling Log

BORING NO.: MW-3B

WELL NO.: MW-3B

CLIENT: New York State Department of Enivronmental Conservation	**PROJECT NO.:** EE1705007.0030
PROJECT: West Sayville Dry Cleaners	**DATE STARTED:** 5/19/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc.	**DATE FINISHED:** 5/19/2023
DRILLING METHOD: Hollow Stem Auger	**DRILLER:** K. McGourty

BOREHOLE DATA	**WELL DATA**	
Diameter (in): 6	**Completion:** Flush	**INSPECTOR:** R. Briggs
Total Depth (ft.): 30	**Total Depth (ft.):** 30	**NORTHING:** 206284.6338
Sampler: Macrocore	**Screen Length (ft.)/Slot (in):** 10/0.010	**EASTING:** 1235766.4979
Depth to Water (ft.): 8.00	**Depth to Water (ft.):** 7.77	**GROUND ELEVATION:** 10.36
Depth to Rock (ft.): NA	**Permit No.:**	**TOC ELEVATION:** 9.72

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	1–5		SW				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little medium Gravel, moist.	**Sand**
▽	5–10		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, little medium Gravel, moist.	
	10		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-3B

WELL NO.: MW-3B

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	12–26		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-3B

WELL NO.: MW-3B

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	27		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	
	28								
	29								
	30							Total Depth of Boring 30 feet.	
	31								
	32								
	33								
	34								
	35								
	36								
	37								
	38								
	39								
	40								
	41								

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Drilling Log

BORING NO.: MW-3C

WELL NO.: MW-3C

CLIENT: New York State Department of Enivronmental Conservation	**PROJECT NO.:** EE1705007.0030
PROJECT: West Sayville Dry Cleaners	**DATE STARTED:** 5/19/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc.	**DATE FINISHED:** 5/19/2023
DRILLING METHOD: Hollow Stem Auger	**DRILLER:** K. McGourty
BOREHOLE DATA / **WELL DATA**	**INSPECTOR:** R. Briggs
Diameter (in): 6 / **Completion:** Flush	**NORTHING:** 206284.6338
Total Depth (ft.): 50 / **Total Depth (ft.):** 50	**EASTING:** 1235766.4979
Sampler: Macrocore / **Screen Length (ft.)/Slot (in):** 10/0.010	**GROUND ELEVATION:** 10.36
Depth to Water (ft.): 8.00 / **Depth to Water (ft.):** 7.68	**TOC ELEVATION:** 9.69
Depth to Rock (ft.): NA / **Permit No.:**	

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	1–5		SW				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little medium Gravel, moist.	**Sand**
▽	5–10		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, little medium Gravel, moist.	
	10		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-3C

WELL NO.: MW-3C

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	12–26		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-3C

WELL NO.: MW-3C

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	27		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	
	28								
	29								
	30		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, wet.	
	31								
	32								
	33								
	34								
	35								
	36								
	37								
	38								
	39								
	40		SW				<1	Light olive gray (5Y 5/2), coarse to medium SAND, trace coarse to medium Gravel, wet.	
	41								

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Drilling Log

BORING NO.: MW-3C

WELL NO.: MW-3C

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	42		SW				<1	Light olive gray (5Y 5/2), coarse to medium SAND, trace coarse to medium Gravel, wet.	
	43								
	44								
	45								
	46								
	47								
	48								
	49								
	50							Total Depth of Boring 50 feet.	
	51								
	52								
	53								
	54								
	55								
	56								

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Drilling Log

BORING NO.: MW-4A

WELL NO.: MW-4A

CLIENT: New York State Department of Enivronmental Conservation	**PROJECT NO.:** EE1705007.0030
PROJECT: West Sayville Dry Cleaners	**DATE STARTED:** 5/18/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc.	**DATE FINISHED:** 5/18/2023
DRILLING METHOD: Hollow Stem Auger	**DRILLER:** K. McGourty
BOREHOLE DATA / **WELL DATA**	**INSPECTOR:** R. Briggs
Diameter (in): 6 / **Completion:** Flush	**NORTHING:** 206200.0513
Total Depth (ft.): 15 / **Total Depth (ft.):** 15	**EASTING:** 1235723.1551
Sampler: Macrocore / **Screen Length (ft.)/Slot (in):** 10/0.010	**GROUND ELEVATION:** 10.63
Depth to Water (ft.): 8.00 / **Depth to Water (ft.):** 7.80	**TOC ELEVATION:** 9.90
Depth to Rock (ft.): NA / **Permit No.:**	

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	1–5		SW				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little medium Gravel, moist.	**Sand**
▽	5–10		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, little medium Gravel, moist.	
	10		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-4A

WELL NO.: MW-4A

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	12		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	
	13								
	14								
	15							Total Depth of Boring 15 feet.	
	16								
	17								
	18								
	19								
	20								
	21								
	22								
	23								
	24								
	25								
	26								

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Drilling Log

BORING NO.: MW-4B

WELL NO.: MW-4B

CLIENT: New York State Department of Enivronmental Conservation	**PROJECT NO.:** EE1705007.0030
PROJECT: West Sayville Dry Cleaners	**DATE STARTED:** 5/18/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc.	**DATE FINISHED:** 5/18/2023
DRILLING METHOD: Hollow Stem Auger	**DRILLER:** K. McGourty
BOREHOLE DATA / **WELL DATA**	**INSPECTOR:** R. Briggs
Diameter (in): 6 / **Completion:** Flush	**NORTHING:** 206200.0513
Total Depth (ft.): 30 / **Total Depth (ft.):** 30	**EASTING:** 1235723.1551
Sampler: Macrocore / **Screen Length (ft.)/Slot (in):** 10/0.010	**GROUND ELEVATION:** 10.63
Depth to Water (ft.): 8.00 / **Depth to Water (ft.):** 7.95	**TOC ELEVATION:** 9.95
Depth to Rock (ft.): NA / **Permit No.:**	

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	1–5		SW				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little medium Gravel, moist.	**Sand**
▽	5–10		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, little medium Gravel, moist.	
	10		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-4B

WELL NO.: MW-4B

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	12–26		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-4B

WELL NO.: MW-4B

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	27		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	
	28								
	29								
	30							Total Depth of Boring 30 feet.	
	31								
	32								
	33								
	34								
	35								
	36								
	37								
	38								
	39								
	40								
	41								

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Drilling Log

BORING NO.: MW-4C

WELL NO.: MW-4C

CLIENT: New York State Department of Enivronmental Conservation	**PROJECT NO.:** EE1705007.0030
PROJECT: West Sayville Dry Cleaners	**DATE STARTED:** 5/18/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc.	**DATE FINISHED:** 5/18/2023
DRILLING METHOD: Hollow Stem Auger	**DRILLER:** K. McGourty
BOREHOLE DATA / **WELL DATA**	**INSPECTOR:** R. Briggs
Diameter (in): 6 / **Completion:** Flush	**NORTHING:** 206200.0513
Total Depth (ft.): 50 / **Total Depth (ft.):** 50	**EASTING:** 1235724.1791
Sampler: Macrocore / **Screen Length (ft.)/Slot (in):** 10/0.010	**GROUND ELEVATION:** 10.63
Depth to Water (ft.): 8.00 / **Depth to Water (ft.):** 7.82	**TOC ELEVATION:** 9.82
Depth to Rock (ft.): NA / **Permit No.:**	

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	1–5		SW				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little medium Gravel, moist.	**Sand**
▽	5–8		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, little medium Gravel, moist.	
	8–10		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-4C

WELL NO.: MW-4C

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	12–26		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	

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Drilling Log

BORING NO.: MW-4C

WELL NO.: MW-4C

CLIENT: New York State Department of Enivronmental Conservation

PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	27		SW				<1	Pale yellowish brown (10YR 6/2), coarse to medium SAND, trace medium to fine Gravel, wet.	
	28								
	29								
	30		SW				<1	Dark yellowish orange (10YR 6/6), coarse to medium SAND, trace coarse to medium Gravel, wet.	
	31								
	32								
	33								
	34								
	35								
	36								
	37								
	38								
	39								
	40		SW				<1	Light olive gray (5Y 5/2), coarse to medium SAND, wet.	
	41								

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Drilling Log

BORING NO.: MW-4C

WELL NO.: MW-4C

CLIENT: New York State Department of Enivronmental Conservation

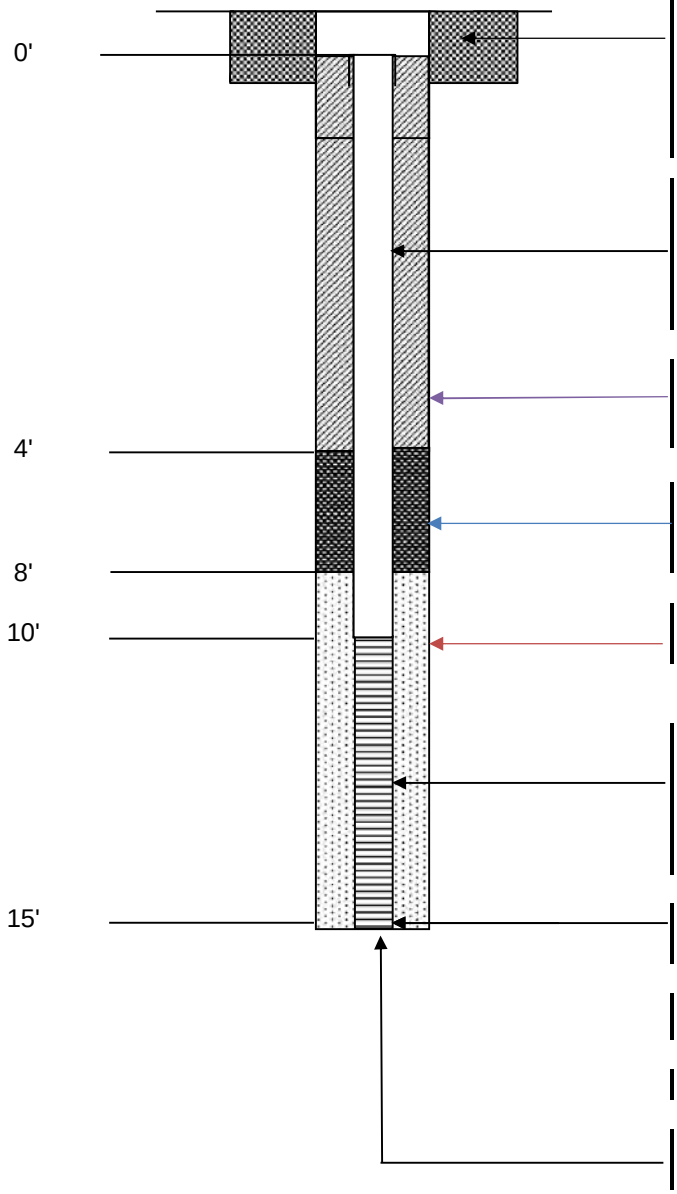
PROJECT NO.: EE1705007.0030

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	42		SW				<1	Light olive gray (5Y 5/2), coarse to medium SAND, wet.	
	43								
	44								
	45								
	46								
	47								
	48								
	49								
	50							Total Depth of Boring 50 feet.	
	51								
	52								
	53								
	54								
	55								
	56								

C Well Construction Diagrams

ecology and environment engineering and geology, p.c.	**Well Construction Diagram**	**WELL NO.:**	**MW-1A**
CLIENT: New York State Department of Enivronmental Conservation		**PROJECT NO:**	EE1705007.0030
PROJECT: West Sayville Dry Cleaners		**DATE STARTED:**	5/16/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc		**DATE FINISHED:**	5/16/2023
DRILLING METHOD: Hollow Stem Auger		**DRILLER:**	K. McGourty
NORTHING (FT):	**GS ELEVATION (FT):**	**INSPECTOR:**	R. Briggs
EASTING (FT):	**WATER LEVEL (FT, BTOC):** 8.69	**TOTAL WELL DEPTH (FT, BGS):**	15

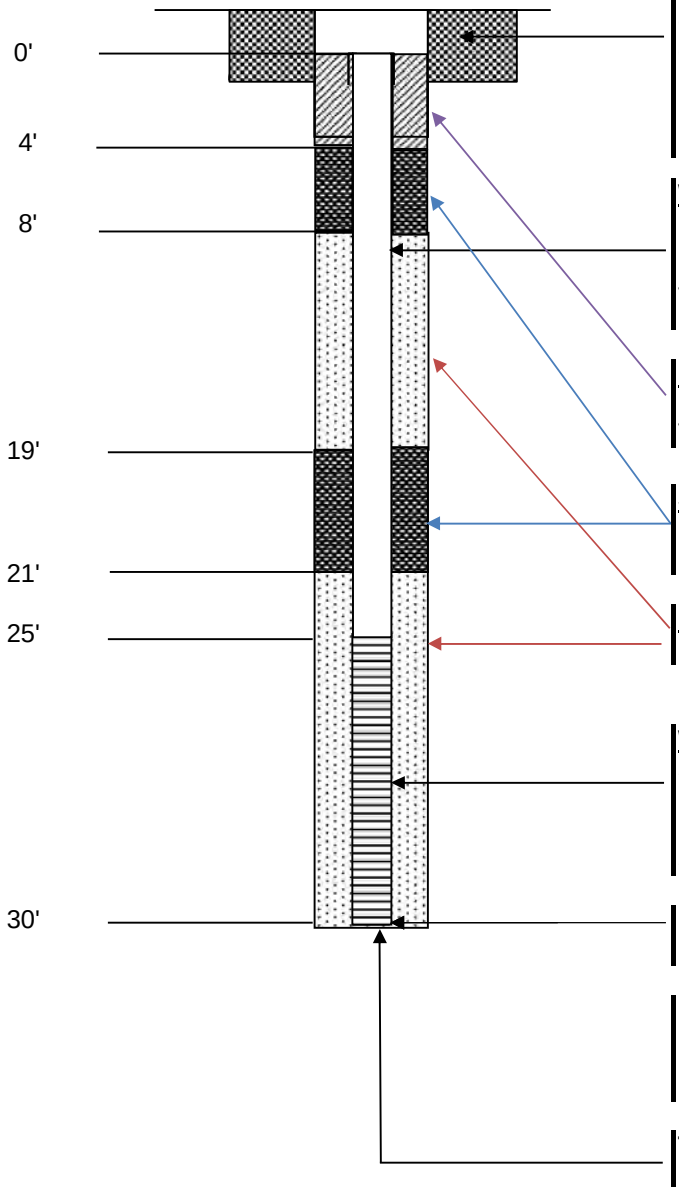
MONITORING WELL CONSTRUCTION DETAILS
CROSS SECTIONAL VIEW
(NOT TO SCALE)



PROTECTIVE CASING AND CONCRETE PAD	
CASING MATERIAL	**Steel**
CASING DIAMETER	**8 inches**
CASING LENGTH	**12 inches**
PAD DIMENSIONS	**2 feet x 2 feet x 6 inches**
HEIGHT ABOVE GROUND	**Flush-Mount**
LOCKABLE WELL (KEY NO.)	
WELL CASING	
MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
JOINT TYPE	**Tri-Loc Threaded**
LENGTH	**10**
BACKFILL AROUND CASING	
MATERIAL	**Cement-Grout**
THICKNESS	**0-4**
SEAL	
MATERIAL / THICKNESS	**Bentonite / 4 feet 4-8**
MATERIAL / THICKNESS	
FILTER PACK	
MATERIAL / THICKNESS	**Sand / 7 feet, 8-15**
WELL SCREEN	
SCREEN MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
LENGTH	**5 feet, 10'-15'**
SLOT SIZE	**0.010 inch**
DEPTH TO BOTTOM OF MONITORING WELL	**15 feet**
TOTAL DEPTH OF BOREHOLE	**15 feet**
DIAMETER OF BOREHOLE	**6 inches**

ecology and environment engineering and geology, p.c.	**Well Construction Diagram**	**WELL NO.:**	**MW-1B**
CLIENT: New York State Department of Enivronmental Conservation		**PROJECT NO:**	EE1705007.0030
PROJECT: West Sayville Dry Cleaners		**DATE STARTED:**	5/16/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc		**DATE FINISHED:**	5/16/2023
DRILLING METHOD: Hollow Stem Auger		**DRILLER:**	K. McGourty
NORTHING (FT):	**GS ELEVATION (FT):**	**INSPECTOR:**	R. Briggs
EASTING (FT):	**WATER LEVEL (FT, BTOC):** 8.67	**TOTAL WELL DEPTH (FT, BGS):**	30

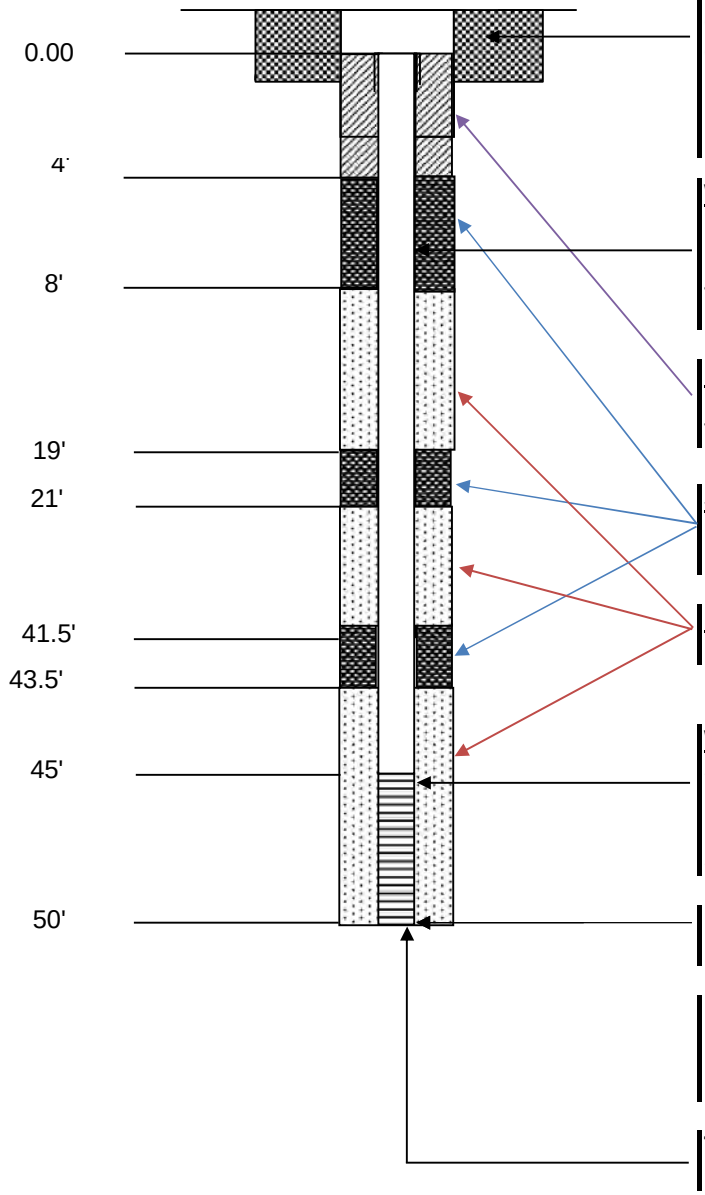
MONITORING WELL CONSTRUCTION DETAILS
CROSS SECTIONAL VIEW
(NOT TO SCALE)



PROTECTIVE CASING AND CONCRETE PAD	
CASING MATERIAL	**Steel**
CASING DIAMETER	**8 inches**
CASING LENGTH	**12 inches**
PAD DIMENSIONS	**2 feet x 2 feet x 6 inches**
HEIGHT ABOVE GROUND	**Flush-Mount**
LOCKABLE WELL (KEY NO.)	
WELL CASING	
MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
JOINT TYPE	**Tri-Loc Threaded**
LENGTH	**25**
BACKFILL AROUND CASING	
MATERIAL	**Cement-Grout 0-4**
THICKNESS	**4 feet**
SEAL	
MATERIAL / THICKNESS	**Bentonite / 6 feet**
MATERIAL / THICKNESS	**4-8, 19-21**
FILTER PACK	
MATERIAL / THICKNESS	**Sand / 20 feet 8-19, 21-30**
WELL SCREEN	
SCREEN MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
LENGTH	**5 feet, 25'-30'**
SLOT SIZE	**0.010 inch**
DEPTH TO BOTTOM OF MONITORING WELL	**30 feet**
TOTAL DEPTH OF BOREHOLE	**30 feet**
DIAMETER OF BOREHOLE	**6 inches**

ecology and environment engineering and geology, p.c.	**Well Construction Diagram**	**WELL NO.:**	**MW-1C**
CLIENT: New York State Department of Enivronmental Conservation		**PROJECT NO:**	EE1705007.0030
PROJECT: West Sayville Dry Cleaners		**DATE STARTED:**	5/16/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc		**DATE FINISHED:**	5/16/2023
DRILLING METHOD: Hollow Stem Auger		**DRILLER:**	K. McGourty
NORTHING (FT):	**GS ELEVATION (FT):**	**INSPECTOR:**	R. Briggs
EASTING (FT):	**WATER LEVEL (FT, BTOC):** 8.79	**TOTAL WELL DEPTH (FT, BGS):**	50

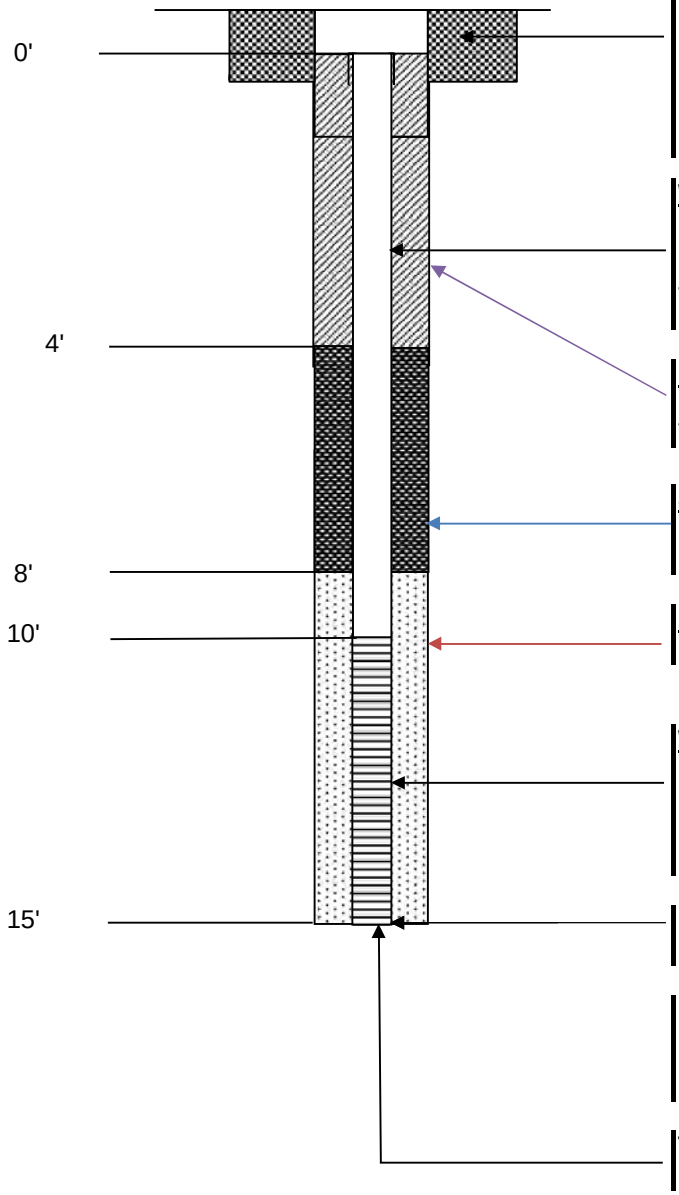
MONITORING WELL CONSTRUCTION DETAILS
CROSS SECTIONAL VIEW
(NOT TO SCALE)



PROTECTIVE CASING AND CONCRETE PAD	
CASING MATERIAL	**Steel**
CASING DIAMETER	**8 inches**
CASING LENGTH	**12 inches**
PAD DIMENSIONS	**2 feet x 2 feet x 6 inches**
HEIGHT ABOVE GROUND	**Flush-Mount**
LOCKABLE WELL (KEY NO.)	
WELL CASING	
MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
JOINT TYPE	**Tri-Loc Threaded**
LENGTH	**45**
BACKFILL AROUND CASING	
MATERIAL	**Cement-Grout 0-4**
THICKNESS	**4 feet**
SEAL	
MATERIAL / THICKNESS	**Bentonite / 8 feet**
MATERIAL / THICKNESS	**4-8, 19-21, 41.5-43.5**
FILTER PACK	
MATERIAL / THICKNESS	**Sand / 38 feet 8-19, 21-41.5, 43.5-50**
WELL SCREEN	
SCREEN MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
LENGTH	**5 feet, 45'-50'**
SLOT SIZE	**0.010 inch**
DEPTH TO BOTTOM OF MONITORING WELL	**50 feet**
TOTAL DEPTH OF BOREHOLE	**50 feet**
DIAMETER OF BOREHOLE	**6 inches**

ecology and environment engineering and geology, p.c.	**Well Construction Diagram**	**WELL NO.:**	**MW-2A**
CLIENT: New York State Department of Enivronmental Conservation		**PROJECT NO:**	EE1705007.0030
PROJECT: West Sayville Dry Cleaners		**DATE STARTED:**	5/17/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc		**DATE FINISHED:**	5/17/2023
DRILLING METHOD: Hollow Stem Auger		**DRILLER:**	K. McGourty
NORTHING (FT):	**GS ELEVATION (FT):**	**INSPECTOR:**	R. Briggs
EASTING (FT):	**WATER LEVEL (FT, BTOC):** 7.77	**TOTAL WELL DEPTH (FT, BGS):**	15

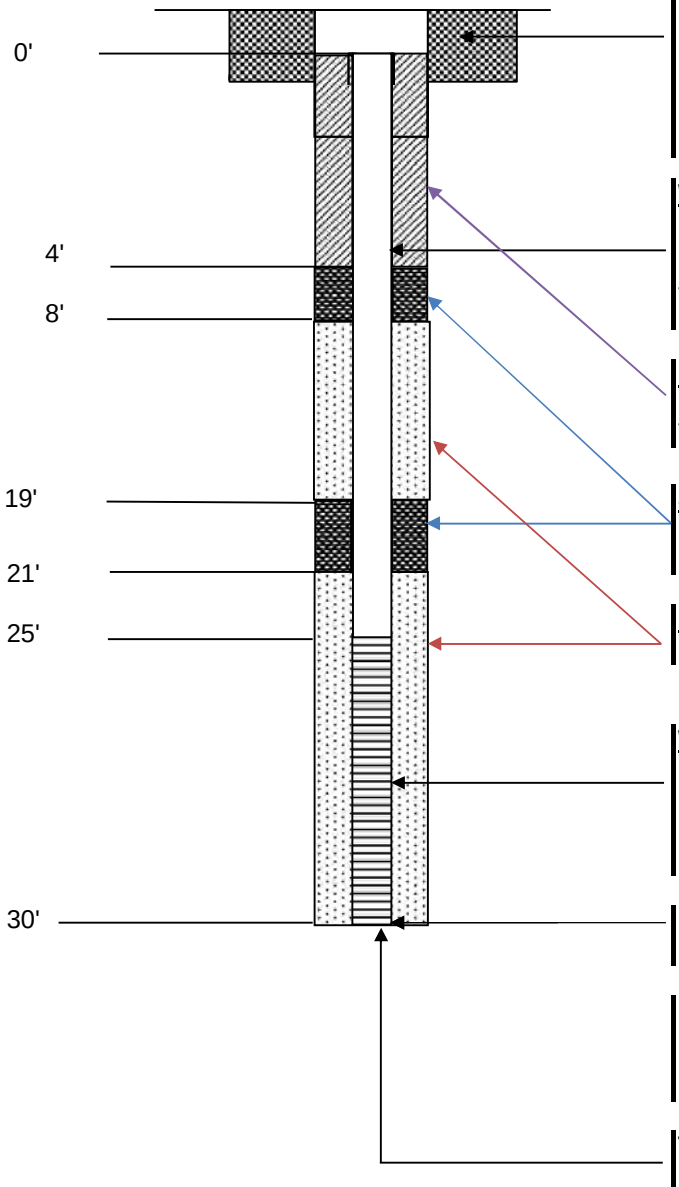
MONITORING WELL CONSTRUCTION DETAILS
CROSS SECTIONAL VIEW
(NOT TO SCALE)



PROTECTIVE CASING AND CONCRETE PAD	
CASING MATERIAL	**Steel**
CASING DIAMETER	**8 inches**
CASING LENGTH	**12 inches**
PAD DIMENSIONS	**2 feet x 2 feet x 6 inches**
HEIGHT ABOVE GROUND	**Flush-Mount**
LOCKABLE WELL (KEY NO.)	
WELL CASING	
MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
JOINT TYPE	**Tri-Loc Threaded**
LENGTH	**10**
BACKFILL AROUND CASING	
MATERIAL	**Cement-Grout**
THICKNESS	**0-4**
SEAL	
MATERIAL / THICKNESS	**Bentonite / 4 feet 4-8**
MATERIAL / THICKNESS	
FILTER PACK	
MATERIAL / THICKNESS	**Sand / 7 feet, 8-15**
WELL SCREEN	
SCREEN MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
LENGTH	**5 feet, 10'-15'**
SLOT SIZE	**0.010 inch**
DEPTH TO BOTTOM OF MONITORING WELL	**15 feet**
TOTAL DEPTH OF BOREHOLE	**15 feet**
DIAMETER OF BOREHOLE	**6 inches**

ecology and environment engineering and geology, p.c.	Well Construction Diagram	WELL NO.:	MW-2B
CLIENT: New York State Department of Enivronmental Conservation		**PROJECT NO:**	EE1705007.0030
PROJECT: West Sayville Dry Cleaners		**DATE STARTED:**	5/17/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc		**DATE FINISHED:**	5/17/2023
DRILLING METHOD: Hollow Stem Auger		**DRILLER:**	K. McGourty
NORTHING (FT):	**GS ELEVATION (FT):**	**INSPECTOR:**	R. Briggs
EASTING (FT):	**WATER LEVEL (FT, BTOC):** 7.99	**TOTAL WELL DEPTH (FT, BGS):**	30

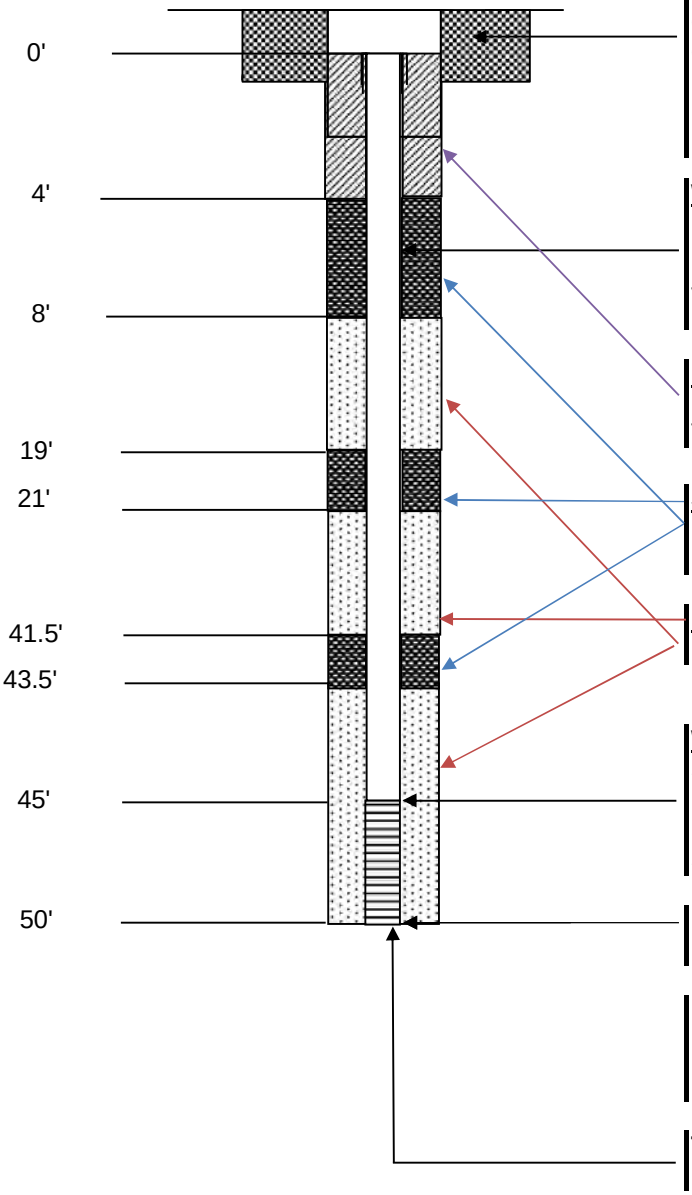
MONITORING WELL CONSTRUCTION DETAILS
CROSS SECTIONAL VIEW
(NOT TO SCALE)



PROTECTIVE CASING AND CONCRETE PAD	
CASING MATERIAL	**Steel**
CASING DIAMETER	**8 inches**
CASING LENGTH	**12 inches**
PAD DIMENSIONS	**2 feet x 2 feet x 6 inches**
HEIGHT ABOVE GROUND	**Flush-Mount**
LOCKABLE WELL (KEY NO.)	
WELL CASING	
MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
JOINT TYPE	**Tri-Loc Threaded**
LENGTH	**25**
BACKFILL AROUND CASING	
MATERIAL	**Cement-Grout 0-4**
THICKNESS	**4 feet**
SEAL	
MATERIAL / THICKNESS	**Bentonite / 6 feet**
MATERIAL / THICKNESS	**4-8, 19-21**
FILTER PACK	
MATERIAL / THICKNESS	**Sand / 20 feet 8-19, 21-30**
WELL SCREEN	
SCREEN MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
LENGTH	**5 feet, 25'-30'**
SLOT SIZE	**0.010 inch**
DEPTH TO BOTTOM OF MONITORING WELL	**30 feet**
TOTAL DEPTH OF BOREHOLE	**30 feet**
DIAMETER OF BOREHOLE	**6 inches**

ecology and environment engineering and geology, p.c.	**Well Construction Diagram**	**WELL NO.:**	**MW-2C**
CLIENT: New York State Department of Enivronmental Conservation		**PROJECT NO:**	EE1705007.0030
PROJECT: West Sayville Dry Cleaners		**DATE STARTED:**	5/17/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc		**DATE FINISHED:**	5/17/2023
DRILLING METHOD: Hollow Stem Auger		**DRILLER:**	K. McGourty
NORTHING (FT):	**GS ELEVATION (FT):**	**INSPECTOR:**	R. Briggs
EASTING (FT):	**WATER LEVEL (FT, BTOC):** 7.82	**TOTAL WELL DEPTH (FT, BGS):**	50

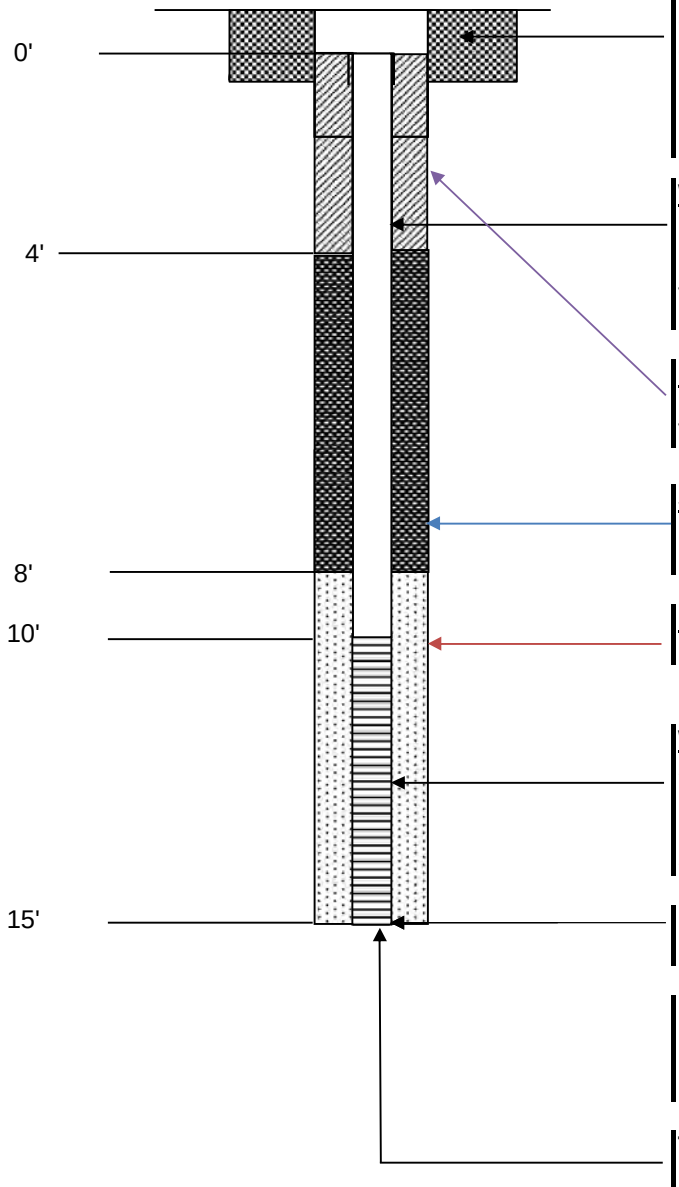
MONITORING WELL CONSTRUCTION DETAILS
CROSS SECTIONAL VIEW
(NOT TO SCALE)



PROTECTIVE CASING AND CONCRETE PAD	
CASING MATERIAL	**Steel**
CASING DIAMETER	**8 inches**
CASING LENGTH	**12 inches**
PAD DIMENSIONS	**2 feet x 2 feet x 6 inches**
HEIGHT ABOVE GROUND	**Flush-Mount**
LOCKABLE WELL (KEY NO.)	
WELL CASING	
MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
JOINT TYPE	**Tri-Loc Threaded**
LENGTH	**45**
BACKFILL AROUND CASING	
MATERIAL	**Cement-Grout 0-4**
THICKNESS	**4 feet**
SEAL	
MATERIAL / THICKNESS	**Bentonite / 8 feet**
MATERIAL / THICKNESS	**4-8, 19-21, 41.5-43.5**
FILTER PACK	
MATERIAL / THICKNESS	**Sand / 38 feet 8-19, 21-41.5, 43.5-50**
WELL SCREEN	
SCREEN MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
LENGTH	**5 feet, 45'-50'**
SLOT SIZE	**0.010 inch**
DEPTH TO BOTTOM OF MONITORING WELL	**50 feet**
TOTAL DEPTH OF BOREHOLE	**50 feet**
DIAMETER OF BOREHOLE	**6 inches**

ecology and environment engineering and geology, p.c.	**Well Construction Diagram**	**WELL NO.:**	**MW-3A**
CLIENT: New York State Department of Enivronmental Conservation		**PROJECT NO:**	EE1705007.0030
PROJECT: West Sayville Dry Cleaners		**DATE STARTED:**	5/18/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc		**DATE FINISHED:**	5/18/2023
DRILLING METHOD: Hollow Stem Auger		**DRILLER:**	K. McGourty
NORTHING (FT):	**GS ELEVATION (FT):**	**INSPECTOR:**	R. Briggs
EASTING (FT):	**WATER LEVEL (FT, BTOC):** 7.77	**TOTAL WELL DEPTH (FT, BGS):**	15

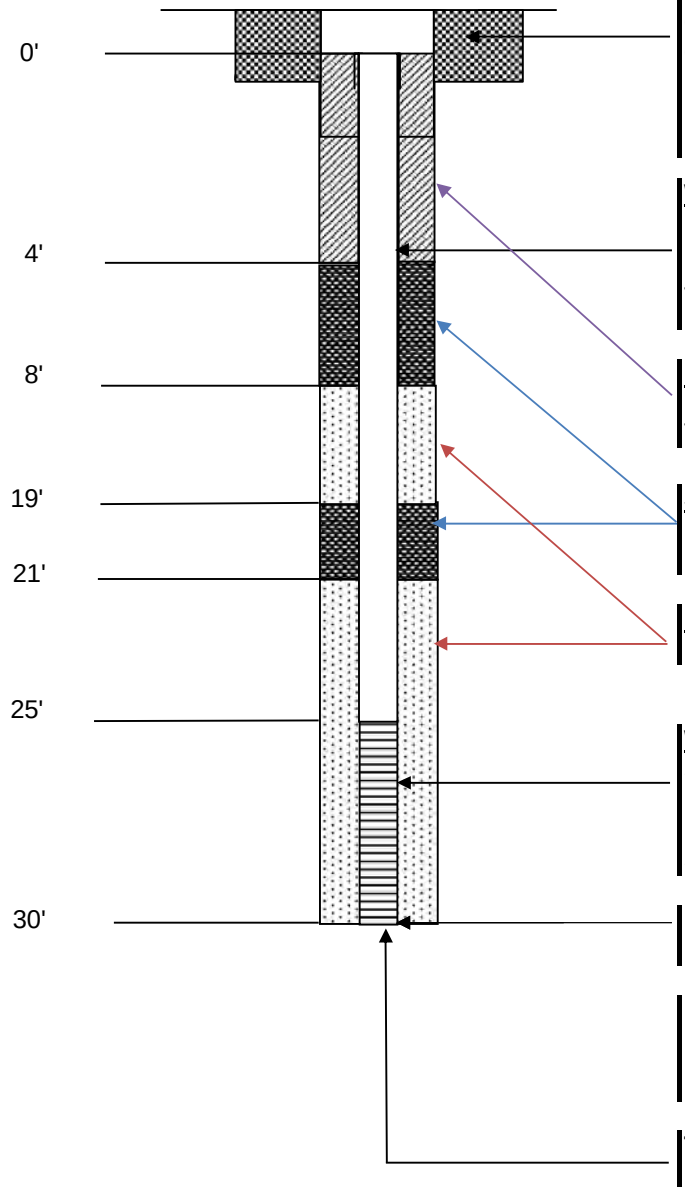
MONITORING WELL CONSTRUCTION DETAILS
CROSS SECTIONAL VIEW
(NOT TO SCALE)



PROTECTIVE CASING AND CONCRETE PAD	
CASING MATERIAL	**Steel**
CASING DIAMETER	**8 inches**
CASING LENGTH	**12 inches**
PAD DIMENSIONS	**2 feet x 2 feet x 6 inches**
HEIGHT ABOVE GROUND	**Flush-Mount**
LOCKABLE WELL (KEY NO.)	
WELL CASING	
MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
JOINT TYPE	**Tri-Loc Threaded**
LENGTH	**10**
BACKFILL AROUND CASING	
MATERIAL	**Cement-Grout**
THICKNESS	**0-4**
SEAL	
MATERIAL / THICKNESS	**Bentonite / 4 feet 4-8**
MATERIAL / THICKNESS	
FILTER PACK	
MATERIAL / THICKNESS	**Sand / 7 feet, 8-15**
WELL SCREEN	
SCREEN MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
LENGTH	**5 feet, 10'-15'**
SLOT SIZE	**0.010 inch**
DEPTH TO BOTTOM OF MONITORING WELL	**15 feet**
TOTAL DEPTH OF BOREHOLE	**15 feet**
DIAMETER OF BOREHOLE	**6 inches**

ecology and environment engineering and geology, p.c.	Well Construction Diagram	WELL NO.:	MW-3B
CLIENT: New York State Department of Enivronmental Conservation		**PROJECT NO:**	EE1705007.0030
PROJECT: West Sayville Dry Cleaners		**DATE STARTED:**	5/18/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc		**DATE FINISHED:**	5/18/2023
DRILLING METHOD: Hollow Stem Auger		**DRILLER:**	K. McGourty
NORTHING (FT):	**GS ELEVATION (FT):**	**INSPECTOR:**	R. Briggs
EASTING (FT):	**WATER LEVEL (FT, BTOC):** 7.77	**TOTAL WELL DEPTH (FT, BGS):**	30

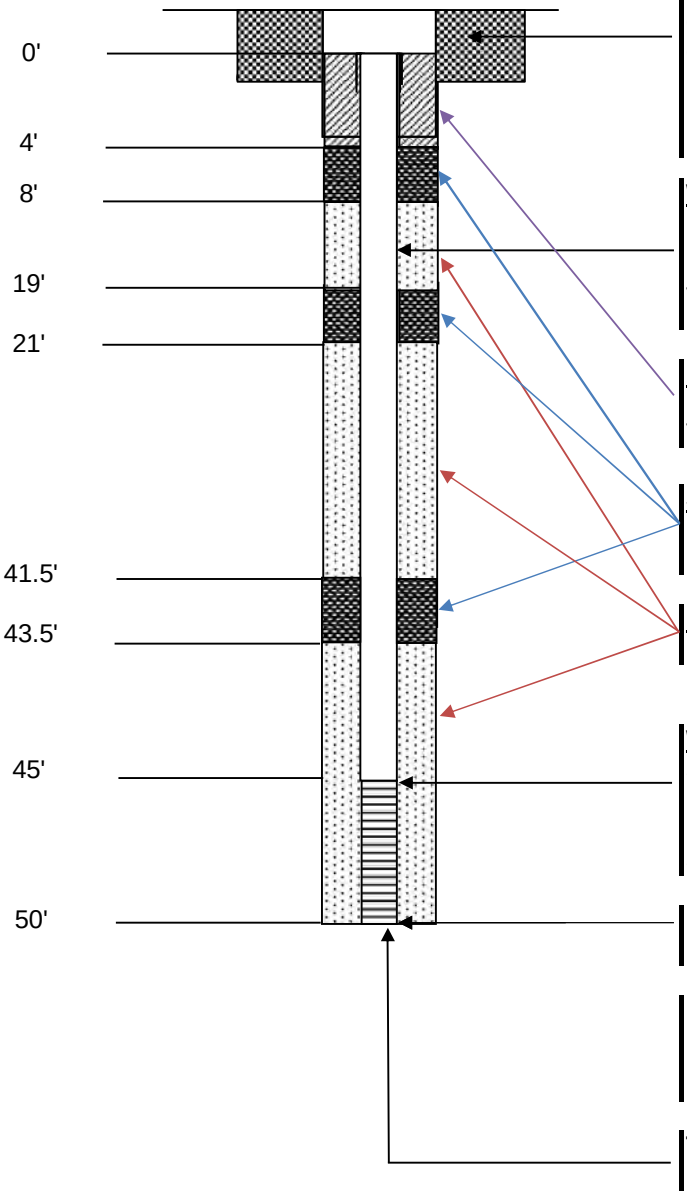
MONITORING WELL CONSTRUCTION DETAILS
CROSS SECTIONAL VIEW
(NOT TO SCALE)



PROTECTIVE CASING AND CONCRETE PAD	
CASING MATERIAL	**Steel**
CASING DIAMETER	**8 inches**
CASING LENGTH	**12 inches**
PAD DIMENSIONS	**2 feet x 2 feet x 6 inches**
HEIGHT ABOVE GROUND	**Flush-Mount**
LOCKABLE WELL (KEY NO.)	
WELL CASING	
MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
JOINT TYPE	**Tri-Loc Threaded**
LENGTH	**25**
BACKFILL AROUND CASING	
MATERIAL	**Cement-Grout 0-4**
THICKNESS	**4 feet**
SEAL	
MATERIAL / THICKNESS	**Bentonite / 6 feet**
MATERIAL / THICKNESS	**4-8, 19-21**
FILTER PACK	
MATERIAL / THICKNESS	**Sand / 20 feet 8-19, 21-30**
WELL SCREEN	
SCREEN MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
LENGTH	**5 feet, 25'-30'**
SLOT SIZE	**0.010 inch**
DEPTH TO BOTTOM OF MONITORING WELL	**30 feet**
TOTAL DEPTH OF BOREHOLE	**30 feet**
DIAMETER OF BOREHOLE	**6 inches**

ecology and environment engineering and geology, p.c.	**Well Construction Diagram**	**WELL NO.:**	**MW-3C**
CLIENT: New York State Department of Enivronmental Conservation		**PROJECT NO:**	EE1705007.0030
PROJECT: West Sayville Dry Cleaners		**DATE STARTED:**	5/18/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc		**DATE FINISHED:**	5/18/2023
DRILLING METHOD: Hollow Stem Auger		**DRILLER:**	K. McGourty
NORTHING (FT):	**GS ELEVATION (FT):**	**INSPECTOR:**	R. Briggs
EASTING (FT):	**WATER LEVEL (FT, BTOC):** 7.68	**TOTAL WELL DEPTH (FT, BGS):**	50

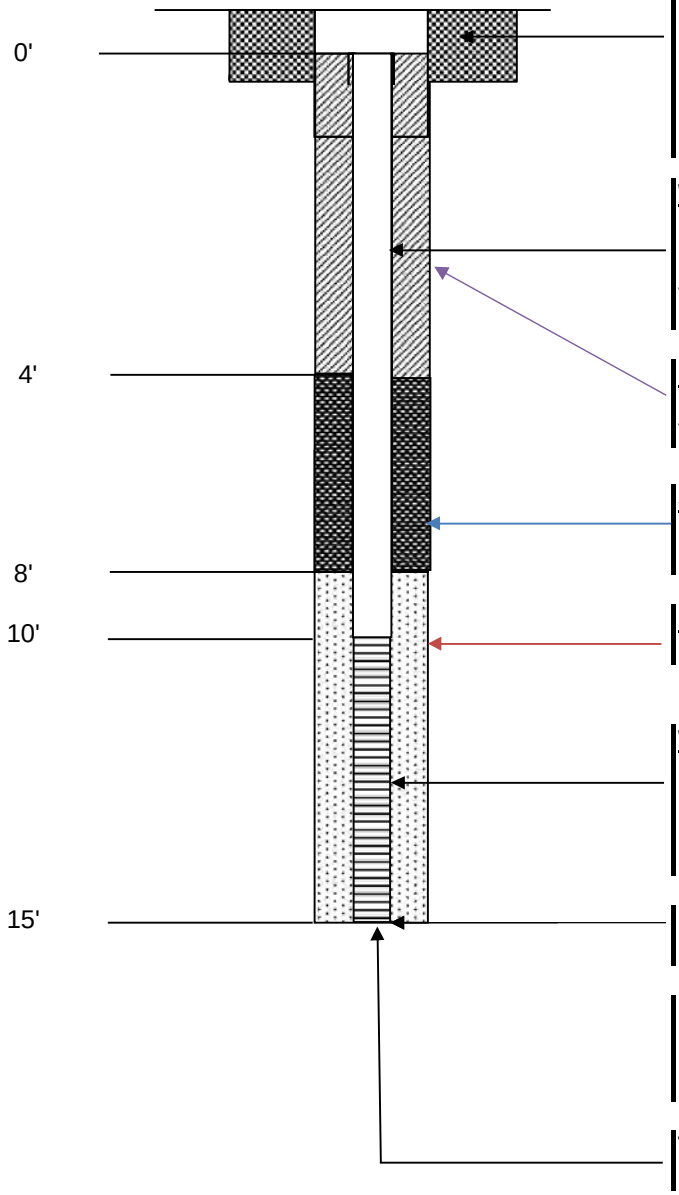
MONITORING WELL CONSTRUCTION DETAILS
CROSS SECTIONAL VIEW
(NOT TO SCALE)



PROTECTIVE CASING AND CONCRETE PAD	
CASING MATERIAL	**Steel**
CASING DIAMETER	**8 inches**
CASING LENGTH	**12 inches**
PAD DIMENSIONS	**2 feet x 2 feet x 6 inches**
HEIGHT ABOVE GROUND	**Flush-Mount**
LOCKABLE WELL (KEY NO.)	
WELL CASING	
MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
JOINT TYPE	**Tri-Loc Threaded**
LENGTH	**45**
BACKFILL AROUND CASING	
MATERIAL	**Cement-Grout 0-4**
THICKNESS	**4 feet**
SEAL	
MATERIAL / THICKNESS	**Bentonite / 8 feet**
MATERIAL / THICKNESS	**4-8, 19-21, 41.5-43.5**
FILTER PACK	
MATERIAL / THICKNESS	**Sand / 38 feet 8-19, 21-41.5, 43.5-50**
WELL SCREEN	
SCREEN MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
LENGTH	**5 feet, 45'-50'**
SLOT SIZE	**0.010 inch**
DEPTH TO BOTTOM OF MONITORING WELL	**50 feet**
TOTAL DEPTH OF BOREHOLE	**50 feet**
DIAMETER OF BOREHOLE	**6 inches**

ecology and environment engineering and geology, p.c.	**Well Construction Diagram**	**WELL NO.:**	**MW-4A**
CLIENT: New York State Department of Enivronmental Conservation		**PROJECT NO:**	EE1705007.0030
PROJECT: West Sayville Dry Cleaners		**DATE STARTED:**	5/19/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc		**DATE FINISHED:**	5/19/2023
DRILLING METHOD: Hollow Stem Auger		**DRILLER:**	K. McGourty
NORTHING (FT):	**GS ELEVATION (FT):**	**INSPECTOR:**	R. Briggs
EASTING (FT):	**WATER LEVEL (FT, BTOC):** 7.80	**TOTAL WELL DEPTH (FT, BGS):**	15

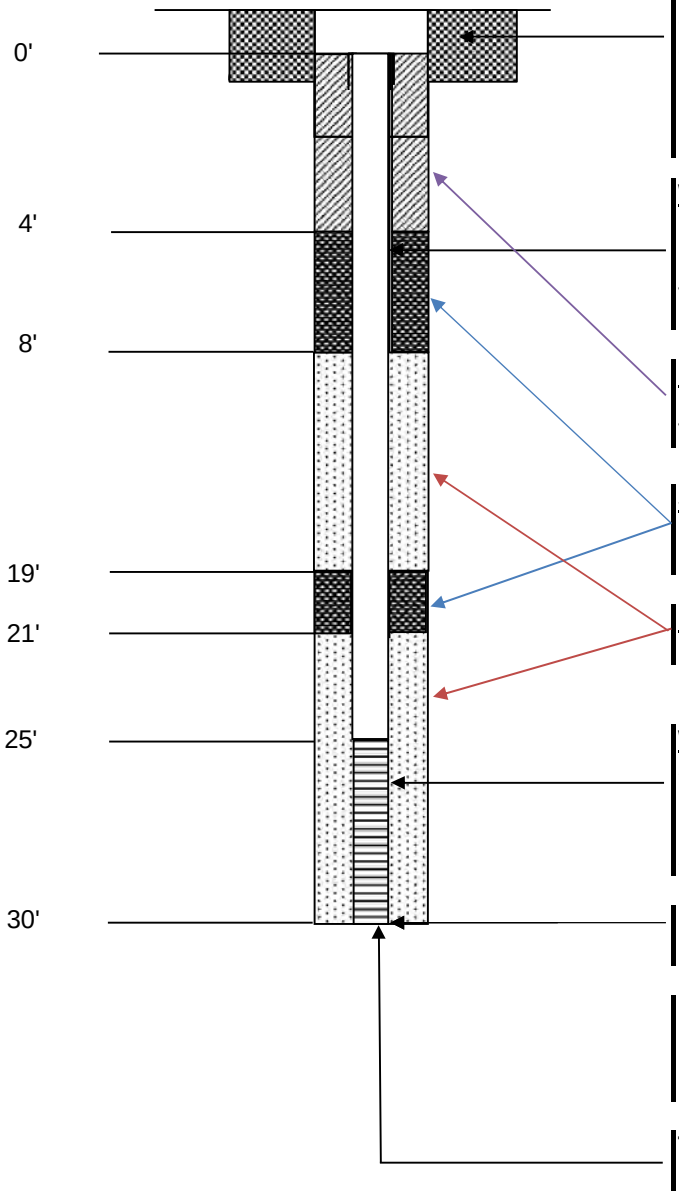
MONITORING WELL CONSTRUCTION DETAILS
CROSS SECTIONAL VIEW
(NOT TO SCALE)



PROTECTIVE CASING AND CONCRETE PAD	
CASING MATERIAL	**Steel**
CASING DIAMETER	**8 inches**
CASING LENGTH	**12 inches**
PAD DIMENSIONS	**2 feet x 2 feet x 6 inches**
HEIGHT ABOVE GROUND	**Flush-Mount**
LOCKABLE WELL (KEY NO.)	
WELL CASING	
MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
JOINT TYPE	**Tri-Loc Threaded**
LENGTH	**10**
BACKFILL AROUND CASING	
MATERIAL	**Cement-Grout**
THICKNESS	**0-4**
SEAL	
MATERIAL / THICKNESS	**Bentonite / 4 feet 4-8**
MATERIAL / THICKNESS	
FILTER PACK	
MATERIAL / THICKNESS	**Sand / 7 feet, 8-15**
WELL SCREEN	
SCREEN MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
LENGTH	**5 feet, 10'-15'**
SLOT SIZE	**0.010 inch**
DEPTH TO BOTTOM OF MONITORING WELL	**15 feet**
TOTAL DEPTH OF BOREHOLE	**15 feet**
DIAMETER OF BOREHOLE	**6 inches**

ecology and environment engineering and geology, p.c.	Well Construction Diagram	WELL NO.:	MW-4B
CLIENT: New York State Department of Enivronmental Conservation		**PROJECT NO:**	EE1705007.0030
PROJECT: West Sayville Dry Cleaners		**DATE STARTED:**	5/19/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc		**DATE FINISHED:**	5/19/2023
DRILLING METHOD: Hollow Stem Auger		**DRILLER:**	K. McGourty
NORTHING (FT):	**GS ELEVATION (FT):**	**INSPECTOR:**	R. Briggs
EASTING (FT):	**WATER LEVEL (FT, BTOC):** 7.95	**TOTAL WELL DEPTH (FT, BGS):**	30

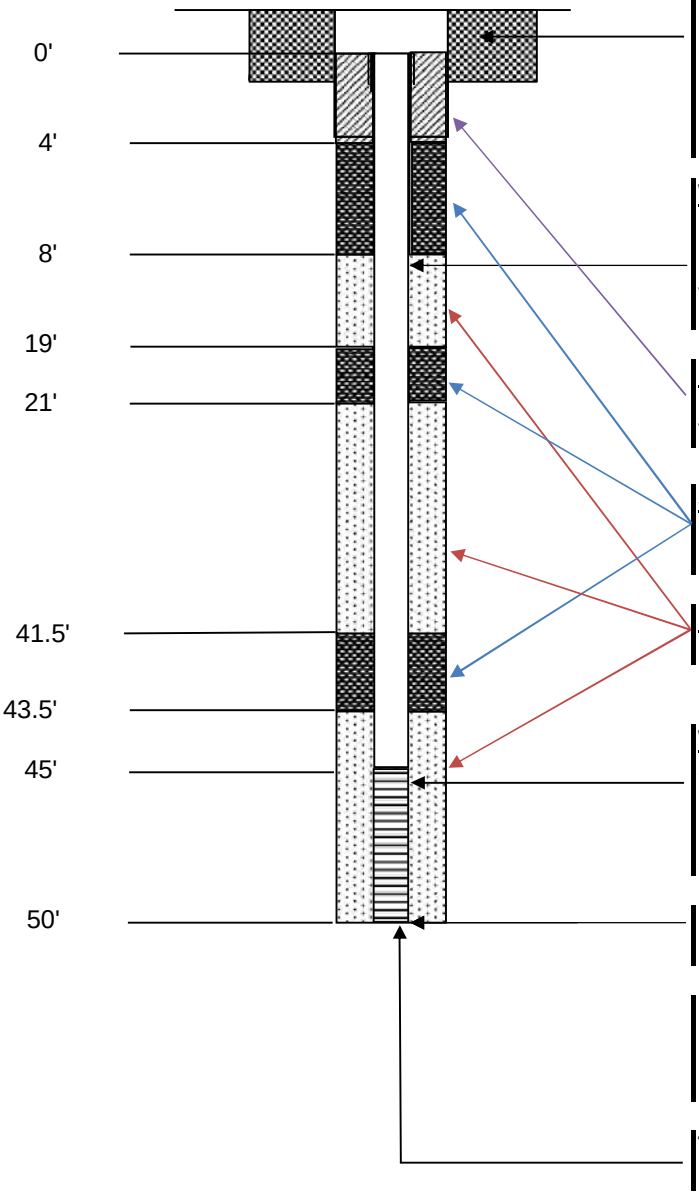
MONITORING WELL CONSTRUCTION DETAILS
CROSS SECTIONAL VIEW
(NOT TO SCALE)



PROTECTIVE CASING AND CONCRETE PAD	
CASING MATERIAL	**Steel**
CASING DIAMETER	**8 inches**
CASING LENGTH	**12 inches**
PAD DIMENSIONS	**2 feet x 2 feet x 6 inches**
HEIGHT ABOVE GROUND	**Flush-Mount**
LOCKABLE WELL (KEY NO.)	
WELL CASING	
MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
JOINT TYPE	**Tri-Loc Threaded**
LENGTH	**25**
BACKFILL AROUND CASING	
MATERIAL	**Cement-Grout 0-4**
THICKNESS	**4 feet**
SEAL	
MATERIAL / THICKNESS	**Bentonite / 6 feet**
MATERIAL / THICKNESS	**4-8, 19-21**
FILTER PACK	
MATERIAL / THICKNESS	**Sand / 20 feet 8-19, 21-30**
WELL SCREEN	
SCREEN MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
LENGTH	**5 feet, 25'-30'**
SLOT SIZE	**0.010 inch**
DEPTH TO BOTTOM OF MONITORING WELL	**30 feet**
TOTAL DEPTH OF BOREHOLE	**30 feet**
DIAMETER OF BOREHOLE	**6 inches**

ecology and environment engineering and geology, p.c.	**Well Construction Diagram**	**WELL NO.:**	**MW-4C**
CLIENT: New York State Department of Enivronmental Conservation		**PROJECT NO:**	EE1705007.0030
PROJECT: West Sayville Dry Cleaners		**DATE STARTED:**	5/19/2023
DRILLING CONTRACTOR: Land, Air, Water Environmental Services Inc		**DATE FINISHED:**	5/19/2023
DRILLING METHOD: Hollow Stem Auger		**DRILLER:**	K. McGourty
NORTHING (FT):	**GS ELEVATION (FT):**	**INSPECTOR:**	R. Briggs
EASTING (FT):	**WATER LEVEL (FT, BTOC):** 7.82	**TOTAL WELL DEPTH (FT, BGS):**	50

MONITORING WELL CONSTRUCTION DETAILS
CROSS SECTIONAL VIEW
(NOT TO SCALE)



PROTECTIVE CASING AND CONCRETE PAD	
CASING MATERIAL	**Steel**
CASING DIAMETER	**8 inches**
CASING LENGTH	**12 inches**
PAD DIMENSIONS	**2 feet x 2 feet x 6 inches**
HEIGHT ABOVE GROUND	**Flush-Mount**
LOCKABLE WELL (KEY NO.)	
WELL CASING	
MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
JOINT TYPE	**Tri-Loc Threaded**
LENGTH	**45**
BACKFILL AROUND CASING	
MATERIAL	**Cement-Grout 0-4**
THICKNESS	**4 feet**
SEAL	
MATERIAL / THICKNESS	**Bentonite / 8 feet**
MATERIAL / THICKNESS	**4-8, 19-21, 41.5-43.5**
FILTER PACK	
MATERIAL / THICKNESS	**Sand / 38 feet 8-19, 21-41.5, 43.5-50**
WELL SCREEN	
SCREEN MATERIAL	**Sch 40 PVC**
DIAMETER	**1 inch**
LENGTH	**5 feet, 45'-50'**
SLOT SIZE	**0.010 inch**
DEPTH TO BOTTOM OF MONITORING WELL	**50 feet**
TOTAL DEPTH OF BOREHOLE	**50 feet**
DIAMETER OF BOREHOLE	**6 inches**

D Well Development Records

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WELL DEVELOPMENT RECORD

Site Name: West Sayville Dry Cleaners Well ID: MW-1A

Project Number: EE1705007.0030.02 Date: 5/24/2023

Location: West Sayville, NY Diameter (inches): 1

Initial Water Level (ft below TOIC): 8.73 Final Water Level (ft below TOIC): 8.69

Initial Well Depth (ft below TOIC): 15.22 Final Well Depth (ft below TOIC): 15.23

Initial Casing Volume (gallons): 0.28 3x Static Casing Volume (gallons): 0.84

Description of development equipment and technique: Waterra pump

Time	Total Volume Removed		pH	Temp. (°F / °C)	Conductivity (µS/cm)	Turbidity (NTU)	Water Level (ft TOIC)	Comments
	Gallons	Number						
7:25	0.52		5.39	18.68	0.738	1000		DO-1.85; Redox-180
7:30	0.54		6.11	18.44	0.619	1000		DO-1.54; Redox-141
7:35	0.53		6.27	18.64	0.629	1000		DO-1.67; Redox-118
7:40	0.51		6.36	18.82	0.623	638		DO-1.75; Redox-102
7:45	0.50		6.39	18.81	0.619	308		DO-1.71; Redox-104
7:50	0.52		6.43	18.79	0.622	163		DO-1.30; Redox-93
7:55	0.53		6.46	19.07	0.630	84.2		DO-1.12; Redox-83
8:00	0.51		6.52	18.92	0.630	36.0		DO-0.53; Redox-79
8:05	0.52		6.29	18.61	0.632	21.3		DO-0.55; Redox-124
8:10	0.53		6.25	18.70	0.633	12.8		DO-0.71; Redox-130
8:15	0.51		6.27	18.73	0.633	12.2		DO-0.72; Redox-131
8:20	0.52		6.25	18.71	0.632	11.9		DO-0.67; Redox-132

Personnel: Ryan Briggs Signature: Ryan Briggs

Date: 5/24/2023

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WELL DEVELOPMENT RECORD

Site Name: West Sayville Dry Cleaners Well ID: MW-1B

Project Number: EE1705007.0030.02 Date: 5/24/2023

Location: West Sayville, NY Diameter (inches): 1

Initial Water Level (ft below TOIC): 8.69 Final Water Level (ft below TOIC): 8.67

Initial Well Depth (ft below TOIC): 30.24 Final Well Depth (ft below TOIC): 30.22

Initial Casing Volume (gallons): 0.88 3x Static Casing Volume (gallons): 2.64

Description of development equipment and technique: Waterra pump

Time	Total Volume Removed		pH	Temp. (°F / °C)	Conductivity (µS/cm)	Turbidity (NTU)	Water Level (ft TOIC)	Comments
	Gallons	Number						
8:25	0.55		6.47	18.76	0.407	1000		DO-0.83; Redox-74
8:30	0.56		6.57	19.63	0.435	540		DO-0.55; Redox-25
8:35	0.54		6.65	19.15	0.433	149		DO-0.70; Redox-20
8:40	0.53		6.71	19.13	0.437	63.4		DO-0.91; Redox-13
8:45	0.54		6.63	18.97	0.439	32.9		DO-0.56; Redox-15
8:50	0.51		6.58	19.11	0.438	23.2		DO-0.59; Redox-19
8:55	0.55		6.59	19.02	0.438	13.1		DO-0.69; Redox-17
9:00	0.54		6.60	18.92	0.440	11.5		DO-0.72; Redox-9

Personnel: Ryan Briggs Signature: Ryan Briggs

Date: 5/24/2023

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WELL DEVELOPMENT RECORD

Site Name: West Sayville Dry Cleaners Well ID: MW-1C

Project Number: EE1705007.0030.02 Date: 5/24/2023

Location: West Sayville, NY Diameter (inches): 1

Initial Water Level (ft below TOIC): 8.79 Final Water Level (ft below TOIC): 8.79

Initial Well Depth (ft below TOIC): 50.16 Final Well Depth (ft below TOIC): 50.15

Initial Casing Volume (gallons): 1.69 3x Static Casing Volume (gallons): 5.07

Description of development equipment and technique: Waterra pump

Time	Total Volume Removed		pH	Temp. (°F / °C)	Conductivity (µS/cm)	Turbidity (NTU)	Water Level (ft TOIC)	Comments
	Gallons	Number						
9:10	0.60		6.98	19.16	0.333	57.9		DO-4.68; Redox-14
9:15	0.61		6.25	19.45	0.453	23.4		DO-0.37; Redox-71
9:20	0.61		5.87	19.63	0.458	3.5		DO-0.32; Redox-110
9:25	0.63		5.68	19.60	0.463	0.6		DO-0.59; Redox-143
9:30	0.62		5.61	19.32	0.461	0.9		DO-0.19; Redox-160
9:35	0.61		5.65	19.37	0.456	1.6		DO-0.50; Redox-167
9:40	0.60		5.66	18.95	0.460	2.4		DO-0.87; Redox-168
9:45	0.61		5.62	19.06	0.459	0.2		DO-0.71; Redox-166
9:50	0.60		5.60	19.09	0.458	0.1		DO-0.72; Redox-167
9:55	0.61		5.60	19.11	0.463	0.2		DO-0.70; Redox-166
10:00	0.62		5.60	19.09	0.461	0.2		DO-0.69; Redox-165

Personnel: Ryan Briggs Signature: Ryan Briggs

Date: 5/24/2023

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WELL DEVELOPMENT RECORD

Site Name: West Sayville Dry Cleaners | Well ID: MW-2A

Project Number: EE1705007.0030.02 | Date: 5/24/2023

Location: West Sayville, NY | Diameter (inches): 1

Initial Water Level (ft below TOIC): 7.80 | Final Water Level (ft below TOIC): 7.77

Initial Well Depth (ft below TOIC): 15.22 | Final Well Depth (ft below TOIC): 15.21

Initial Casing Volume (gallons): 0.30 | 3x Static Casing Volume (gallons): 0.90

Description of development equipment and technique: Waterra pump

Time	Total Volume Removed		pH	Temp. (°F / °C)	Conductivity (µS/cm)	Turbidity (NTU)	Water Level (ft TOIC)	Comments
	Gallons	Number						
10:10	0.53		7.07	21.17	1.03	932		DO-1.17; Redox-103
10:15	0.54		7.41	20.32	1.01	1000		DO-1.19; Redox-81
10:20	0.55		7.13	20.24	0.922	1000		DO-1.07; Redox-81
10:25	0.54		6.98	20.02	0.885	404		DO-1.10; Redox-85
10:30	0.53		6.76	20.12	0.860	189		DO-1.41; Redox-89
10:35	0.52		6.73	19.94	0.858	99.7		DO-0.96; Redox-84
10:40	0.51		6.77	20.04	0.854	74.2		DO-1.07; Redox-75
10:45	0.52		6.64	20.01	0.854	48.5		DO-1.16; Redox-83
10:50	0.51		6.58	20.11	0.848	30.9		DO-0.65; Redox-88
10:55	0.52		6.59	19.97	0.843	27.9		DO-0.72; Redox-89
11:00	0.51		6.60	19.92	0.844	21.8		DO-0.74; Redox-92

Personnel: Ryan Briggs | Signature: _____

Date: 5/24/2023

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WELL DEVELOPMENT RECORD

Site Name: West Sayville Dry Cleaners
Well ID: MW-2B
Project Number: EE1705007.0030.02
Date: 5/24/2023
Location: West Sayville, NY
Diameter (inches): 1
Initial Water Level (ft below TOIC): 8.03
Final Water Level (ft below TOIC): 7.99
Initial Well Depth (ft below TOIC): 30.25
Final Well Depth (ft below TOIC): 30.23
Initial Casing Volume (gallons): 0.91
3x Static Casing Volume (gallons): 2.73
Description of development equipment and technique: Waterra pump

Time	Total Volume Removed		pH	Temp. (°F / °C)	Conductivity (µS/cm)	Turbidity (NTU)	Water Level (ft TOIC)	Comments
	Gallons	Number						
11:15	0.58		6.74	20.52	0.389	190		DO-1.40; Redox-62
11:20	0.57		6.36	19.95	0.330	177		DO-1.10; Redox-92
11:25	0.56		6.07	20.17	0.351	47.9		DO-1.50; Redox-153
11:30	0.53		5.97	19.64	0.352	14.2		DO-0.94; Redox-167
11:35	0.51		5.88	20.32	0.353	6.8		DO-1.68; Redox-178
11:40	0.52		5.83	20.27	0.352	5.9		DO-1.62; Redox-182
11:45	0.51		5.84	20.12	0.352	5.3		DO-1.70; Redox-177
11:50								
11:55								

Personnel: Ryan Briggs
Signature: Ryan Briggs
Date: 5/24/2023

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WELL DEVELOPMENT RECORD

Site Name: West Sayville Dry Cleaners Well ID: MW-2C

Project Number: EE1705007.0030.02 Date: 5/24/2023

Location: West Sayville, NY Diameter (inches): 1

Initial Water Level (ft below TOIC): 7.88 Final Water Level (ft below TOIC): 7.82

Initial Well Depth (ft below TOIC): 50.44 Final Well Depth (ft below TOIC): 50.41

Initial Casing Volume (gallons): 1.74 3x Static Casing Volume (gallons): 5.22

Description of development equipment and technique: Waterra pump

Time	Total Volume Removed		pH	Temp. (°F / °C)	Conductivity (µS/cm)	Turbidity (NTU)	Water Level (ft TOIC)	Comments
	Gallons	Number						
11:55	0.52		6.96	20.45	0.290	30.4		DO-5.32; Redox-110
12:00	0.50		5.65	21.67	0.489	11.4		DO-0.55; Redox-180
12:05	0.49		5.51	19.73	0.503	4.7		DO-0.76; Redox-201
12:10	0.48		5.51	19.63	0.514	4.8		DO-1.88; Redox-199
12:15	0.53		5.50	19.51	0.517	2.8		DO-1.72; Redox-207
12:20	0.52		5.44	20.05	0.516	1.5		DO-0.97; Redox-209
12:25	0.51		5.40	19.64	0.513	1.3		DO-1.41; Redox-227
12:30	0.53		5.44	19.45	0.512	1.7		DO-1.38; Redox-236
12:35	0.52		5.43	19.50	0.518	0.5		DO-1.16; Redox-227
12:40	0.51		5.36	19.61	0.516	0.3		DO-1.15; Redox-229
12:45	0.52		5.33	19.72	0.512	0.6		DO-1.13; Redox-230

Personnel: Ryan Briggs Signature: Ryan Briggs

Date: 5/24/2023

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WELL DEVELOPMENT RECORD

Site Name: West Sayville Dry Cleaners
Well ID: MW-3A
Project Number: EE1705007.0030.02
Date: 5/23/2023
Location: West Sayville, NY
Diameter (inches): 1
Initial Water Level (ft below TOIC): 7.83
Final Water Level (ft below TOIC):
Initial Well Depth (ft below TOIC): 15.16
Final Well Depth (ft below TOIC): 15.14
Initial Casing Volume (gallons): 0.30
3x Static Casing Volume (gallons): 0.90
Description of development equipment and technique: Waterra pump

Time	Total Volume Removed		pH	Temp. (°F / °C)	Conductivity (µS/cm)	Turbidity (NTU)	Water Level (ft TOIC)	Comments
	Gallons	Number						
12:10	0.50		6.94	23.11	1.70	1000		DO-1.97; Redox-83
12:15	0.56		7.47	21.20	1.77	1000		DO-2.67; Redox- -47
12:20	0.52		6.02	21.25	0.923	1000		DO-3.36; Redox- -52
12:25	0.52		7.70	21.91	1.77	896		DO-1.39; Redox- -81
12:30	0.49		7.65	20.72	1.77	914		DO-1.40; Redox- -60
12:35	0.47		7.53	20.87	1.74	585		DO-1.51; Redox- -51
12:40	0.49		7.20	20.86	1.71	455		DO-1.17; Redox- -31
12:45	0.46		6.84	20.92	1.70	365		DO-0.65; Redox- -9
12:50	0.52		6.73	20.00	1.64	240		DO-1.10; Redox- -6
12:55	0.57		6.79	19.45	1.63	190		DO-1.17; Redox- -10
13:00	0.50		6.61	19.79	1.60	159		DO-0.93; Redox- -3
13:05	0.49		6.57	19.62	1.59	139		DO-0.86; Redox-11
13:10	0.50		6.55	19.59	1.57	106		DO-0.84; Redox-13
13:15	0.52		6.66	19.34	1.54	89.3		DO-0.82; Redox-1
13:20	0.51		6.64	19.25	1.53	74.9		DO-0.88; Redox-2
13:25	0.48		6.76	19.17	1.50	68.9		DO-0.95; Redox- -17
13:30	0.47		6.78	19.27	1.50	62.4		DO-1.06; Redox- -13
13:35	0.49		6.79	18.90	1.49	54.0		DO-1.11; Redox- -19
13:40	0.91		6.82	18.91	1.50	48.0		DO-1.15; Redox- -20
13:45	0.90		6.84	18.92	1.49	40.6		DO-1.20; Redox- -20

Personnel: Ryan Briggs
Signature: Ryan Briggs
Date: 5/23/2023

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WELL DEVELOPMENT RECORD

Site Name: West Sayville Dry Cleaners | Well ID: MW-3B

Project Number: EE1705007.0030.02 | Date: 5/23/2023

Location: West Sayville, NY | Diameter (inches): 1

Initial Water Level (ft below TOIC): 7.73 | Final Water Level (ft below TOIC): 7.68

Initial Well Depth (ft below TOIC): 30.17 | Final Well Depth (ft below TOIC): 30.16

Initial Casing Volume (gallons): 0.92 | 3x Static Casing Volume (gallons): 2.76

Description of development equipment and technique: Waterra pump

Time	Total Volume Removed		pH	Temp. (°F / °C)	Conductivity (µS/cm)	Turbidity (NTU)	Water Level (ft TOIC)	Comments
	Gallons	Number						
14:05	0.57		7.84	19.11	0.598	282		DO-1.79; Redox- -54
14:10	0.56		7.17	19.15	0.608	116		DO-1.59; Redox-20
14:15	0.59		6.67	19.46	0.602	43.2		DO-2.24; Redox-25
14:20	0.58		6.50	19.31	0.600	20.7		DO-1.85; Redox-99
14:25	0.60		6.64	19.05	0.603	13.6		DO-1.87; Redox-86
14:30	0.57		6.53	18.84	0.604	11.6		DO-1.76; Redox-101
14:35	0.59		6.52	18.89	0.601	9.9		DO-1.78; Redox-99
14:40	0.56		6.52	18.97	0.603	9.1		DO-1.79; Redox-102

Personnel: Ryan Briggs | Signature: Ryan Briggs

Date: 5/23/2023

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WELL DEVELOPMENT RECORD

Site Name: West Sayville Dry Cleaners | Well ID: MW-3C

Project Number: EE1705007.0030.02 | Date: 5/23/2023

Location: West Sayville, NY | Diameter (inches): 1

Initial Water Level (ft below TOIC): 7.69 | Final Water Level (ft below TOIC): 7.68

Initial Well Depth (ft below TOIC): 50.06 | Final Well Depth (ft below TOIC): 50.05

Initial Casing Volume (gallons): 1.73 | 3x Static Casing Volume (gallons): 5.19

Description of development equipment and technique: Waterra pump

Time	Total Volume Removed		pH	Temp. (°F / °C)	Conductivity (µS/cm)	Turbidity (NTU)	Water Level (ft TOIC)	Comments
	Gallons	Number						
14:55	0.63		7.23	18.94	0.529	73.2		DO-5.27; Redox-74
15:00	0.61		6.45	18.62	0.838	52.1		DO-1.49; Redox-56
15:05	0.60		6.56	18.65	0.878	15.8		DO-1.35; Redox-37
15:10	0.64		6.64	18.53	0.891	10.6		DO-1.58; Redox-31
15:20	0.59		6.28	18.85	0.901	7.5		DO-0.57; Redox-49
15:25	0.61		6.36	18.60	0.896	6.9		DO-0.93; Redox-44
15:30	0.60		6.27	18.88	0.900	6.2		DO-0.82; Redox-55
15:35	0.61		6.29	18.83	0.897	6.5		DO-0.80; Redox-59
15:40	0.58		6.31	18.65	0.896	5.7		DO-0.77; Redox-44
15:45	0.62		6.37	18.62	0.900	5.9		DO-0.84; Redox-45
15:50	0.61		6.34	18.61	0.898	5.8		DO-0.82; Redox-46
15:55								

Personnel: Ryan Briggs | Signature: Ryan Briggs

Date: 5/23/2023

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WELL DEVELOPMENT RECORD

Site Name: West Sayville Dry Cleaners
Well ID: MW-4A
Project Number: EE1705007.0030.02
Date: 5/23/2023
Location: West Sayville, NY
Diameter (inches): 1
Initial Water Level (ft below TOIC): 7.81
Final Water Level (ft below TOIC): 7.80
Initial Well Depth (ft below TOIC): 15.20
Final Well Depth (ft below TOIC): 15.21
Initial Casing Volume (gallons): 0.30
3x Static Casing Volume (gallons): 0.90
Description of development equipment and technique: Waterra pump

Time	Total Volume Removed		pH	Temp. (°F / °C)	Conductivity (µS/cm)	Turbidity (NTU)	Water Level (ft TOIC)	Comments
	Gallons	Number						
8:25	0.60		6.00	18.59	1.79	1000		DO-7.07; Redox- -35
8:30	0.62		6.71	18.11	1.85	821		DO-7.10; Redox- -37
8:35	0.64		6.90	17.87	1.56	968		DO-7.42; Redox- -40
8:40	0.69		6.92	17.91	1.56	573		DO-7.41; Redox- -41
8:45	0.70		6.92	17.88	1.55	324		DO-7.45; Redox- -42
8:50	0.71		6.93	17.90	1.59	246		DO-7.52; Redox- -50
8:55	0.62		6.94	17.72	1.56	215		DO-7.59; Redox- -50
9:00	0.61		6.92	17.75	1.56	218		DO-7.52; Redox- -52
9:05	0.60		6.00	17.78	1.59	218		DO-7.61; Redox- -56
9:10	0.57		6.97	17.83	1.57	233		DO-7.66; Redox- -62
9:15	0.59		6.98	17.93	1.59	240		DO-7.61; Redox- -64
9:20	0.65		7.02	17.91	1.60	236		DO-7.55; Redox- -62
9:25	0.63		7.07	18.32	1.57	223		DO-7.45; Redox- -60
9:30	0.61		7.15	18.46	1.87	164		DO-7.42; Redox- -61
9:35	0.62		7.18	18.65	1.88	73.3		DO-7.35; Redox- -64
9:40	0.60		7.23	18.79	1.88	47.2		DO-7.45; Redox- -63
9:45	0.57		7.22	18.82	1.89	36.5		DO-7.39; Redox- -66
9:50	0.61		7.23	18.85	1.88	30		DO-7.35; Redox- -70

Personnel: Ryan Briggs
Signature: Ryan Briggs
Date: 5/23/2023

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WELL DEVELOPMENT RECORD

Site Name: West Sayville Dry Cleaners Well ID: MW-4B

Project Number: EE1705007.0030.02 Date: 5/23/2023

Location: West Sayville, NY Diameter (inches): 1

Initial Water Level (ft below TOIC): 7.98 Final Water Level (ft below TOIC): 7.95

Initial Well Depth (ft below TOIC): 30.25 Final Well Depth (ft below TOIC): 30.25

Initial Casing Volume (gallons): 0.91 3x Static Casing Volume (gallons): 2.73

Description of development equipment and technique: Waterra pump

Time	Total Volume Removed		pH	Temp. (°F / °C)	Conductivity (µS/cm)	Turbidity (NTU)	Water Level (ft TOIC)	Comments
	Gallons	Number						
10:00	0.55		7.68	19.60	1.00	1000		DO-7.36; Redox- -81
10:05	0.62		7.71	19.78	0.769	320		DO-7.50; Redox- -44
10:10	0.61		7.63	20.05	0.733	148		DO-7.46; Redox- -12
10:15	0.60		7.45	20.23	0.728	98.8		DO-7.53; Redox-8
10:20	0.61		7.41	19.91	0.720	64.3		DO-7.51; Redox-13
10:25	0.63		7.25	20.14	0.723	34.3		DO-7.41; Redox-25
10:30	0.62		7.22	19.88	0.725	21.3		DO-7.37; Redox-53
10:35	0.61		6.55	20.49	0.718	21.9		DO-7.57; Redox-83
10:40	0.64		6.68	20.10	0.719	12.1		DO-7.52; Redox-74
10:45	0.66		6.67	20.21	0.713	14.4		DO-7.54; Redox-77
10:50	0.67		6.70	20.15	0.723	11.1		DO-7.57; Redox-80

Personnel: Ryan Briggs Signature: Ryan Briggs

Date: 5/23/2023

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WELL DEVELOPMENT RECORD

Site Name: West Sayville Dry Cleaners Well ID: MW-4C

Project Number: EE1705007.0030.02 Date: 5/23/2023

Location: West Sayville, NY Diameter (inches): 1

Initial Water Level (ft below TOIC): 7.84 Final Water Level (ft below TOIC): 7.82

Initial Well Depth (ft below TOIC): 50.40 Final Well Depth (ft below TOIC): 50.38

Initial Casing Volume (gallons): 1.74 3x Static Casing Volume (gallons): 5.22

Description of development equipment and technique: Waterra pump

Time	Total Volume Removed		pH	Temp. (°F / °C)	Conductivity (µS/cm)	Turbidity (NTU)	Water Level (ft TOIC)	Comments
	Gallons	Number						
11:00	0.69		7.40	20.52	0.505	137		DO-7.84; Redox-36
11:05	0.67		7.37	20.79	0.677	191		DO-7.87; Redox-35
11:10	0.71		7.33	20.33	0.680	53.0		DO-8.21; Redox-46
11:15	0.72		7.27	20.65	0.685	43.0		DO-2.66; Redox-46
11:20	0.73		7.07	21.01	0.675	32.0		DO-1.07; Redox-55
11:25	0.71		7.02	20.86	0.679	26.4		DO-0.64; Redox-42
11:30	0.68		6.97	20.98	0.670	18.1		DO-0.56; Redox-83
11:35	0.69		6.70	20.74	0.670	13.3		DO-0.58; Redox-82
11:40	0.70		6.73	20.70	0.677	10.4		DO-0.62; Redox-79
11:45	0.71		6.71	20.61	0.670	9.9		DO-0.61; Redox-77
11:50	0.72		6.70	20.50	0.672	8.7		DO-0.60; Redox-72

Personnel: Ryan Briggs Signature: Ryan Briggs

Date: 5/23/2023

E Monitoring Well Purge and Sample Logs

SITE:	West Sayville	CONSULTING FIRM:	EE
DATE:	6/20/2023	FIELD PERSONNEL:	Parth Patel, Ryan Briggs
WEATHER:	73º Sunny		

MONITOR WELL #: MW-1A WELL DEPTH: 15 ft
WELL PERMIT #: WELL DIAMETER: 1 in SCREENED/OPEN INTERVAL: 10-15 ft

WATER QUALITY METER & SERIAL No.: HSTK0085
PID BACKGROUND : PUMP INTAKE DEPTH: 13.5 ft below TOC
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP: 0.2 DEPTH TO WATER BEFORE PUMP INSTALLATION: 8.7 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
13:47	6.08	NA	0.551	NA	106	NA	1.08	NA		NA	15.93	NA	400	
13:48	6.06	0.02	0.547	0.004	113	7	0.16	0.92		0	15.87	0.06	400	
13:49	6.07	0.01	0.546	0.001	116	3	0.00	0.16		0	15.85	0.02	400	
13:50	6.07	0	0.549	0.003	120	4	0.00	0		0	15.79	0.06	400	
13:51	6.07	0	0.550	0.001	122	2	0.00	0		0	15.87	0.08	400	
13:52	6.08	0.01	0.551	0.001	123	1	0.00	0		0	15.78	0.09	400	
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @ 13:55**
ANALYSIS: VOCs

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE:	West Sayville	CONSULTING FIRM:	EE
DATE:	6/20/2023	FIELD PERSONNEL:	Parth Patel, Ryan Briggs
WEATHER:	73º Sunny		

MONITOR WELL #: MW-1B WELL DEPTH: 30.25 ft
WELL PERMIT #: WELL DIAMETER: 1 in SCREENED/OPEN INTERVAL: 25-30 ft

WATER QUALITY METER & SERIAL No.: HSTK0085
PID BACKGROUND : PUMP INTAKE DEPTH: 28.5 ft below TOC
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 8.64 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
12:57	6.39	NA	0.470	NA	115	NA	0.54	NA		NA	14.65	NA	640	
13:00	6.36	0.03	0.466	0.004	82	33	0.00	0.54		0	14.49	0.16	640	
13:03	6.36	0	0.465	0.001	76	6	0.00	0		0	14.42	0.07	640	
13:06	6.35	0.01	0.463	0.002	74	2	0.00	0		0	14.47	0.05	640	
13:09	6.37	0.02	0.462	0.001	72	2	0.00	0		0	14.45	0.02	640	
13:12	6.37	0	0.461	0.001	71	1	0.00	0		0	14.44	0.01	640	
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @ 13:15**

ANALYSIS: VOCs, PFAS, HERBICIDES, PESTICIDES/PCBs, DIOXANE, CHROMIUM, HEXAVALENT, TAL METALS, MERCURY

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE:	West Sayville	CONSULTING FIRM:	EE
DATE:	6/20/2023	FIELD PERSONNEL:	Parth Patel, Ryan Briggs
WEATHER:	73º Sunny		

MONITOR WELL #: MW-1C WELL DEPTH: 50.3 ft
WELL PERMIT #: WELL DIAMETER: 1 in SCREENED/OPEN INTERVAL: 45-50 ft

WATER QUALITY METER & SERIAL No.: HSTK0085
PID BACKGROUND : PUMP INTAKE DEPTH: 48.5 ft below TOC
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP: 0.9 DEPTH TO WATER BEFORE PUMP INSTALLATION: 8.76 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
12:00	5.69	NA	0.380	NA	180	NA	2.21	NA		NA	14.75	NA	650	
12:05	5.30	0.39	0.477	0.097	217	37	0.21	2		0	14.63	0.12	650	
12:10	5.25	0.05	0.609	0.132	235	18	0.00	0.21		0	14.61	0.02	650	
12:15	5.18	0.07	0.631	0.022	245	10	0.00	0		0	14.52	0.09	650	
12:20	5.17	0.01	0.646	0.015	251	6	0.00	0		0	14.59	0.07	650	
12:25	5.11	0.06	0.654	0.008	257	6	0.00	0		0	14.18	0.41	650	
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @ 12:27**
ANALYSIS: VOCs

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE:	West Sayville	CONSULTING FIRM:	EE
DATE:	6/20/2023	FIELD PERSONNEL:	Ryan Briggs
WEATHER:	73º Sunny		

MONITOR WELL #: MW-2A WELL DEPTH: 15.21 ft
WELL PERMIT #: WELL DIAMETER: 1 in SCREENED/OPEN INTERVAL: 10-15 ft

WATER QUALITY METER & SERIAL No.: 90XCTDRR
PID BACKGROUND : PUMP INTAKE DEPTH: 13.5 ft below TOC
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP: 2.3 DEPTH TO WATER BEFORE PUMP INSTALLATION: 8.42 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
13:33	6.22	NA	0.452	NA	254	NA	10.68	NA	258	NA	16.20	NA	200	
13:35	6.32	0.1	0.447	0.005	246	8	10.62	0.06	209	49	16.25	0.05	200	
13:37	6.41	0.09	0.441	0.006	232	14	8.78	1.84	48	161	16.11	0.14	200	
13:40	6.42	0.01	0.402	0.039	202	30	7.99	0.79	20.2	27.8	16.02	0.09	200	
13:42	6.42	0	0.419	0.017	203	1	8.02	0.03	19.4	0.8	15.99	0.03	200	
13:45	6.42	0	0.412	0.007	205	2	8.05	0.03	19.8	0.4	15.62	0.37	200	
		0		0		0	8.06	0.01		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @ 16:00**

ANALYSIS: VOC, SVOC, HERBICIDES, PESTICIDES, PCB, DIOXANE, CHROMIUM, HEXAVALENT, TAL METALS, MERCURY

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE:	West Sayville	CONSULTING FIRM:	EE
DATE:	6/20/2023	FIELD PERSONNEL:	Ryan Briggs
WEATHER:	73º Sunny		

MONITOR WELL #: MW-2B WELL DEPTH: 30.23 ft
WELL PERMIT #: WELL DIAMETER: 1 in SCREENED/OPEN INTERVAL: 25-30 ft

WATER QUALITY METER & SERIAL No.: 90XCTDRR
PID BACKGROUND : PUMP INTAKE DEPTH: 28.5 ft below TOC
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 8.42 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
13:52	5.68	NA	0.234	NA	263	NA	3.69	NA	23.1	NA	16.81	NA	240	
13:55	5.78	0.1	0.223	0.011	258	5	4.31	0.62	19.6	3.5	15.87	0.94	240	
13:58	5.80	0.02	0.222	0.001	256	2	4.56	0.25	2.8	16.8	15.86	0.01	240	
14:02	5.80	0	0.226	0.004	255	1	4.19	0.37	0.3	2.5	15.93	0.07	240	
14:05	5.81	0.01	0.218	0.008	255	0	3.90	0.29	0.1	0.2	15.82	0.11	240	
14:07	5.80	0.01	0.217	0.001	256	1	3.99	0.09	0.2	0.1	15.87	0.05	240	
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @ 14:16**
ANALYSIS: VOCs

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE:	West Sayville	CONSULTING FIRM:	EE
DATE:	6/20/2023	FIELD PERSONNEL:	Ryan Briggs
WEATHER:	73º Sunny		

MONITOR WELL #: MW-2C WELL DEPTH: 50.41 ft
WELL PERMIT #: WELL DIAMETER: 1 in SCREENED/OPEN INTERVAL: 45-50 ft

WATER QUALITY METER & SERIAL No.: 90XCTDRR
PID BACKGROUND : PUMP INTAKE DEPTH: 48.5 ft below TOC
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP: 3.2 DEPTH TO WATER BEFORE PUMP INSTALLATION: 8.34 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
13:10	6.48	NA	0.342	NA	225	NA	5.06	NA	3.1	NA	19.81	NA	320	
13:14	6.50	0.02	0.344	0.002	262	37	4.58	0.48	2	1.1	16.23	3.58	320	
13:18	5.41	1.09	0.341	0.003	266	4	3.65	0.93	2.2	0.2	15.66	0.57	320	
13:23	5.31	0.1	0.338	0.003	267	1	3.70	0.05	2.2	0	15.71	0.05	320	
13:27	5.33	0.02	0.332	0.006	266	1	3.56	0.14	0.2	2	15.48	0.23	320	
13:31	5.33	0	0.321	0.011	265	1	2.50	1.06	0.3	0.1	15.39	0.09	320	
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @ 13:35**
ANALYSIS: VOCs

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE:	West Sayville	CONSULTING FIRM:	EE
DATE:	6/20/2023	FIELD PERSONNEL:	Ryan Briggs
WEATHER:	73º Sunny		

MONITOR WELL #: MW-3A WELL DEPTH: 15.14 ft
WELL PERMIT #: WELL DIAMETER: 1 in SCREENED/OPEN INTERVAL: 10-15 ft

WATER QUALITY METER & SERIAL No.: 90XCTDRR
PID BACKGROUND : PUMP INTAKE DEPTH: 13.5 ft below TOC
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 7.8 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
11:00	6.20	NA	0.390	NA	101	NA	8.83	NA	57.4	NA	17.95	NA	200	
11:02	6.23	0.03	0.394	0.004	82	19	7.44	1.39	55.1	2.3	17.89	0.06	200	
11:04	6.24	0.01	0.394	0	80	2	7.35	0.09	54.1	1	17.82	0.07	200	
11:05	6.29	0.05	0.394	0	72	8	6.93	0.42	53.4	0.7	17.88	0.06	200	
11:06		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @ 11:10**
ANALYSIS: VOCs

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE:	West Sayville	CONSULTING FIRM:	EE
DATE:	6/20/2023	FIELD PERSONNEL:	Ryan Briggs
WEATHER:	73º Sunny		

MONITOR WELL #: MW-3B WELL DEPTH: 30.16 ft
WELL PERMIT #: WELL DIAMETER: 1 in SCREENED/OPEN INTERVAL: 25-30 ft

WATER QUALITY METER & SERIAL No.: 90XCTDRR
PID BACKGROUND : PUMP INTAKE DEPTH: 28.5 ft below TOC
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 7.8 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
10:10	6.00	NA	0.256	NA	123	NA	7.50	NA	0.7	NA	16.50	NA	280	
10:13	5.96	0.04	0.255	0.001	134	11	4.79	2.71	0.1	0.6	16.52	0.02	280	
10:14	5.95	0.01	0.255	0	145	11	4.00	0.79	0.2	0.1	16.38	0.14	280	
10:15	5.96	0.01	0.253	0.002	161	16	6.16	2.16	0.2	0	16.24	0.14	280	
10:22	5.96	0	0.252	0	163	0	6.33	0	0.4	0	16.26	0	280	
10:24	5.98	0.02	0.252	0	176	13	6.57	0.24	0.3	0.1	16.20	0.06	280	
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @ 10:30**

ANALYSIS: VOCs, PFAS, HERBICIDES, PESTICIDES, PCBs, DIOXANE, SVOCs, CHROMIUM, HEXAVALENT, TAL METALS, MERCURY

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE:	West Sayville	CONSULTING FIRM:	EE
DATE:	6/20/2023	FIELD PERSONNEL:	Ryan Briggs
WEATHER:	73º Sunny		

MONITOR WELL #: MW-3C WELL DEPTH: 50.04 ft
WELL PERMIT #: WELL DIAMETER: 1 in SCREENED/OPEN INTERVAL: 45-50 ft

WATER QUALITY METER & SERIAL No.: 90XCTDRR
PID BACKGROUND : PUMP INTAKE DEPTH: 48.5 ft below TOC
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 7.89 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
8:43	5.02	NA	0.282	NA	288	NA	2.43	NA	20.8	NA	15.88	NA	380	
8:47	5.31	0.29	0.296	0.014	225	63	4.90	2.47	4.4	16.4	15.88	0	380	
8:52	5.43	0.12	0.305	0.009	201	24	4.72	0.18	3.9	0.5	15.62	0.26	380	
8:56	5.52	0.09	0.309	0.004	186	15	4.50	0.22	14.5	10.6	15.71	0.09	380	
9:00	5.57	0	0.312	0	187	0	4.45	0	16.4	0	15.72	0	380	
9:04	5.57	0	0.314	0.002	187	0	4.49	0.04	16.2	0.2	15.87	0.15	380	7.89
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @ 9:10**
ANALYSIS: VOCs

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE:	West Sayville	CONSULTING FIRM:	EE
DATE:	6/20/2023	FIELD PERSONNEL:	Parth Patel, Ryan Briggs
WEATHER:	73º Sunny		

MONITOR WELL #: MW-4A WELL DEPTH: 15.18 ft
WELL PERMIT #: WELL DIAMETER: 1 in SCREENED/OPEN INTERVAL: 10-15 ft

WATER QUALITY METER & SERIAL No.: HSTK0085
PID BACKGROUND : PUMP INTAKE DEPTH: 13.5 ft below TOC
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 7.87 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
10:08	6.69	NA	1.310	NA	-18	NA	1.35	NA		NA	15.86	NA	600	
10:09	6.69	0	1.310	0	-22	4	0.52	0.83		0	15.47	0.39	600	
10:10	6.69	0	1.310	0	-28	6	0.00	0.52		0	15.26	0.21	600	
10:11	6.69	0	1.310	0	-31	3	0.00	0		0	15.17	0.09	600	
10:12	6.69	0	1.310	0	-35	0	0.00	0		0	15.18	0	600	
10:13	6.69	0	1.310	0	-36	1	0.00	0		0	15.18	0	600	
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @ 10:15**
ANALYSIS: VOCs

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE:	West Sayville	CONSULTING FIRM:	EE
DATE:	6/20/2023	FIELD PERSONNEL:	Parth Patel, Ryan Briggs
WEATHER:	73º Sunny		

MONITOR WELL #: MW-4B WELL DEPTH: 30.3 ft
WELL PERMIT #: WELL DIAMETER: 1 in SCREENED/OPEN INTERVAL: 25-30 ft

WATER QUALITY METER & SERIAL No.: HSTK0085
PID BACKGROUND : PUMP INTAKE DEPTH: 28.5 ft below TOC
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 7.83 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
9:31	5.80	NA	0.379	NA	209	NA	0.44	NA		NA	14.57	NA	760	
9:33	5.87	0.07	0.381	0.002	209	0	0.11	0.33		0	14.63	0.06	760	
9:35	5.75	0.12	0.383	0.002	208	1	0.00	0.11		0	14.53	0.1	760	
9:37	5.77	0.02	0.383	0	207	1	0.00	0		0	14.53	0	760	
9:39	5.74	0	0.384	0	207	0	0.00	0		0	14.53	0	760	
9:41	5.75	0.01	0.384	0	207	0	0.00	0		0	14.51	0.02	760	
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @ 9:43**
ANALYSIS: VOCs

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE:	West Sayville	CONSULTING FIRM:	EE
DATE:	6/20/2023	FIELD PERSONNEL:	Parth Patel, Ryan Briggs
WEATHER:	73º Sunny		

MONITOR WELL #: MW-4C WELL DEPTH: 50.5 ft
WELL PERMIT #: WELL DIAMETER: 1 in SCREENED/OPEN INTERVAL: 45-50 ft

WATER QUALITY METER & SERIAL No.: HSTK0085
PID BACKGROUND : PUMP INTAKE DEPTH: 48.5 ft below TOC
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 7.89 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
8:23	5.55	NA	0.417	NA	228	NA	1.13	NA		NA	14.44	NA	550	
8:26	5.44	0.11	0.419	0.0016	230	2	0.62	0.51		0	14.28	0.16	550	
8:29	5.38	0.06	0.408	0.011	231	1	0.81	0.19		0	14.27	0.01	550	
8:33	5.33	0.05	0.408	0	231	0	0.56	0.25		0	14.19	0.08	550	
8:39	5.37	0	0.407	0	227	0	0.21	0		0	14.12	0	550	
8:45	5.37	0	0.407	0	225	2	0.00	0.21		0	14.08	0.04	550	
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @ 8:47**
ANALYSIS: VOCs

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

F

Structure Sampling Questionnaire and Building Inventory Forms

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: _____ Site Code: _____ Operable Unit: _____

Building Code: _____ Building Name: _____

Address: 61 WEST SAYVILLE MAIN ST. Apt/Suite No: _____

City: WEST SAYVILLE, NY State: NY Zip: 11796 County: SUFFOLK

Contact Information

Preparer's Name: _____ Phone No: _____

Preparer's Affiliation: WSP FIELD PERSONNEL Company Code: _____

Purpose of Investigation: VI INVESTIGATION Date of Inspection: 4/3/23

Contact Name: _____ Affiliation: _____

Phone No: _____ Alt. Phone No: / Email: _____

Number of Occupants (total): 5 - 10 EMPLOYEES Number of Children: 0

☐ Occupant Interviewed? ☐ Owner Occupied? ☐ Owner Interviewed? NO

Owner Name (if different): NOT PRESENT Owner Phone: _____

Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): COMMERCIAL Bldg Size (S/M/L): S

If Commercial or Industrial Facility, Select Operations: CARPENTRY SHOP / WOOD SHOP

If Residential Select Structure Type:

Number of Floors: 2 Approx. Year Construction: _____ ☐ Building Insulated? ☐ Attached Garage?

Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):
OPEN CONCEPT ON GROUND FLOOR. ONE LARGE ROOM WITH NON-LOAD BEARING DIVIDING WALLS.

Foundation Description

Foundation Type: CINDER BLOCK Foundation Depth (bgs): 5 Unit: FEET

Foundation Floor Material: CONCRETE Foundation Floor Thickness: _____ Unit: INCHES

Foundation Wall Material: _____ Foundation Wall Thickness: _____

☐ Floor penetrations? Describe Floor Penetrations: NA

☐ Wall penetrations? Describe Wall Penetrations: NA

Basement is: [redacted] Basement is: _____ ☐ Sumps/Drains? Water In Sump?: _____

Describe Foundation Condition (cracks, seepage, etc.) : _____

☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: NATURAL GAS Heat Fuel Type: _____ ☒ Central A/C Present? UPSTAIRS (GROUND FLOOR)

Vented Appliances

Water Heater Fuel Type: _____ Clothes Dryer Fuel Type: _____

Water Htr Vent Location: _____ Dryer Vent Location: _____

Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: Bldg Code: Date: 4/3/23

Bldg Address: 61 MAIN STREET WEST SAYVILLE, , Apt/Suite No: /

Bldg City/State/Zip: NY 11796

Make and Model of PID: 14401 FROM PINE RENTALS Date of Calibration: 4/3/23

PPB RAE

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
GROUND FLOOR	"CHANTILY LACE" SATIN POLY TOPCOAT	5 GAL	UNOPENED/ NEW	CHEMICAL THINNERS + HARDENERS	0.0	☐
GROUND FLOOR	SIRCA INDUSTRIAL RESIN	50 GAL	UNOPENED/ NEW	RESIN	0.0	☐
GROUND FLOOR	WINDEX WINDOW CLEANER	8 oz.	HALF-USED	—	0.0	☐
GROUND FLOOR	WOOD STAIN	8 oz.	USED	—	0.0	☐
GROUND FLOOR	PAINT PRIMER	1 QT.	USED.	100% ACRYLIC	0.0	☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? MOSTLY Were there any elevated PID readings taken on site? NO ☐ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: _____ Site Code: _____ Operable Unit: /

Building Code: _____ Building Name: _____

Address: 61 WEST MAIN ST. Apt/Suite No: _____

City: WEST SAYVILLE State: NY Zip: 11796 County: SUFFOLK

Factors Affecting Indoor Air Quailty

Frequency Basement/Lowest Level is Occupied?: INFREQUENT Floor Material: CONCRETE

☐ Inhabited? ☒ HVAC System On? ☐ Bathroom Exhaust Fan? NO ☐ Kitchen Exhaust Fan? NO

Alternate Heat Source: _____ ☐ Is there smoking in the building? NO

☐ Air Fresheners? Description/Location of Air Freshener: NO

☐ Cleaning Products Used Recently?: Description of Cleaning Products: N/A

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products: NA

☐ New Carpet or Furniture? Location of New Carpet/Furniture: NA

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: NA

☐ Recent Painting/Staining? Location of New Painting: NA

☐ Solvent or Chemical Odors? Describe Odors (if any): NA

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: NA

☐ Recent Pesticide/Rodenticide? Description of Last Use: NA

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

STORAGE OF FURNITURE, WOOD PIECES, WOODSHOP EQUIPMENT, AND TOOLS.

☐ Any Prior Testing For Radon? If So, When?: _____

☐ Any Prior Testing For VOCs? If So, When?: _____

Sampling Conditions

Weather Conditions: 55°F SUNNY Outdoor Temperature: 48°F °F

Current Building Use: WOODSHOP W/ BASEMENT STORAGE Barometric Pressure: 30.06 in(hg)

Product Inventory Complete? YES ☑ Building Questionnaire Completed?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: _____ Address: _____

Sampling Information

Sampler Name(s): _____ Sampler Company Code: _____

Sample Collection Date: 4/4/23 Date Samples Sent To Lab: _____

Sample Chain of Custody Number: _____ Outdoor Air Sample Location ID: _____

SUMMA Canister Information

Sample ID:	MFD-SS-01	MFD-IA01	MFD-IA02		
Location Code:					
Location Type:	BASEMENT	CRAWLSPACE	1ST FLOOR		
Canister ID:	2511	6307	5122		
Regulator ID:	3783	3117	4212		
Matrix:	AIR	AIR	AIR		
Sampling Method:	SUB-SLAB	INDOOR AIR	INDOOR AIR		

Sampling Area Info

Slab Thickness (inches):	≈ 4"	—	—		
Sub-Slab Material:	CONCRETE	—	—		
Sub-Slab Moisture:	—	—	—		
Seal Type:	PIN + TUBING	—	—		
Seal Adequate?:	☑	☐	☐	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	4/3/23 13:27	4/3/23 13:21	4/3/23		
Vacuum Gauge Start:	~~13:27~~ 30	22			
Sample End Date/Time:	4/4/23 9:38	4/4/23 9:37	4/4/23		
Vacuum Gauge End:	~~9:38~~ 3	2			
Sample Duration (hrs):	20 hrs 11 min	20 hrs 16 min			
Vacuum Gauge Unit:	3783	3117	4212		

Sample QA/QC Readings

Vapor Port Purge:	☑	☐	☐	☐	☐
Purge PID Reading:	605 ppb	—	—	—	
Purge PID Unit:	ppbRAE	—	—	—	
Tracer Test Pass:	☑	☐	☐	☐	☐

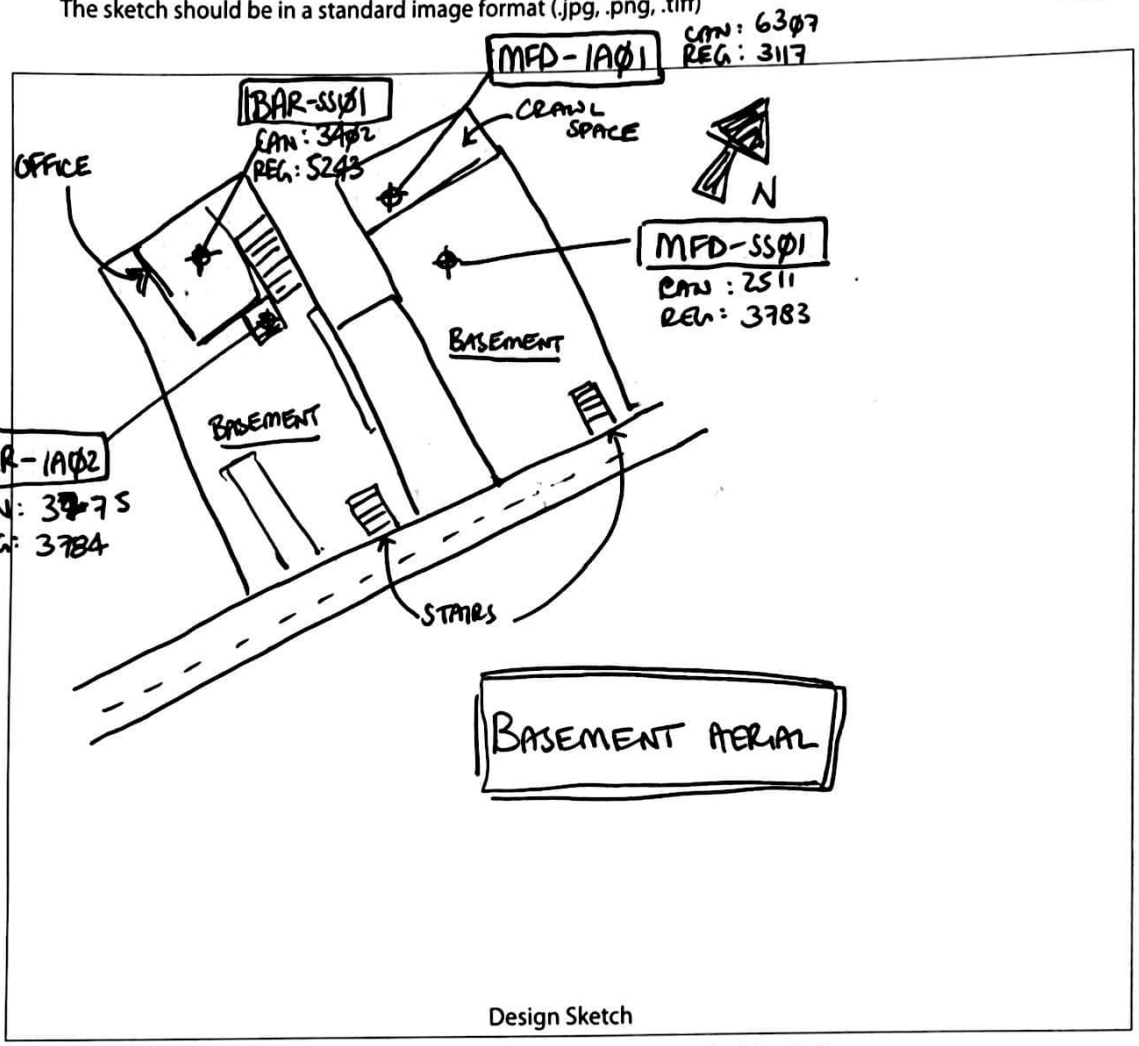
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Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

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Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sket
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
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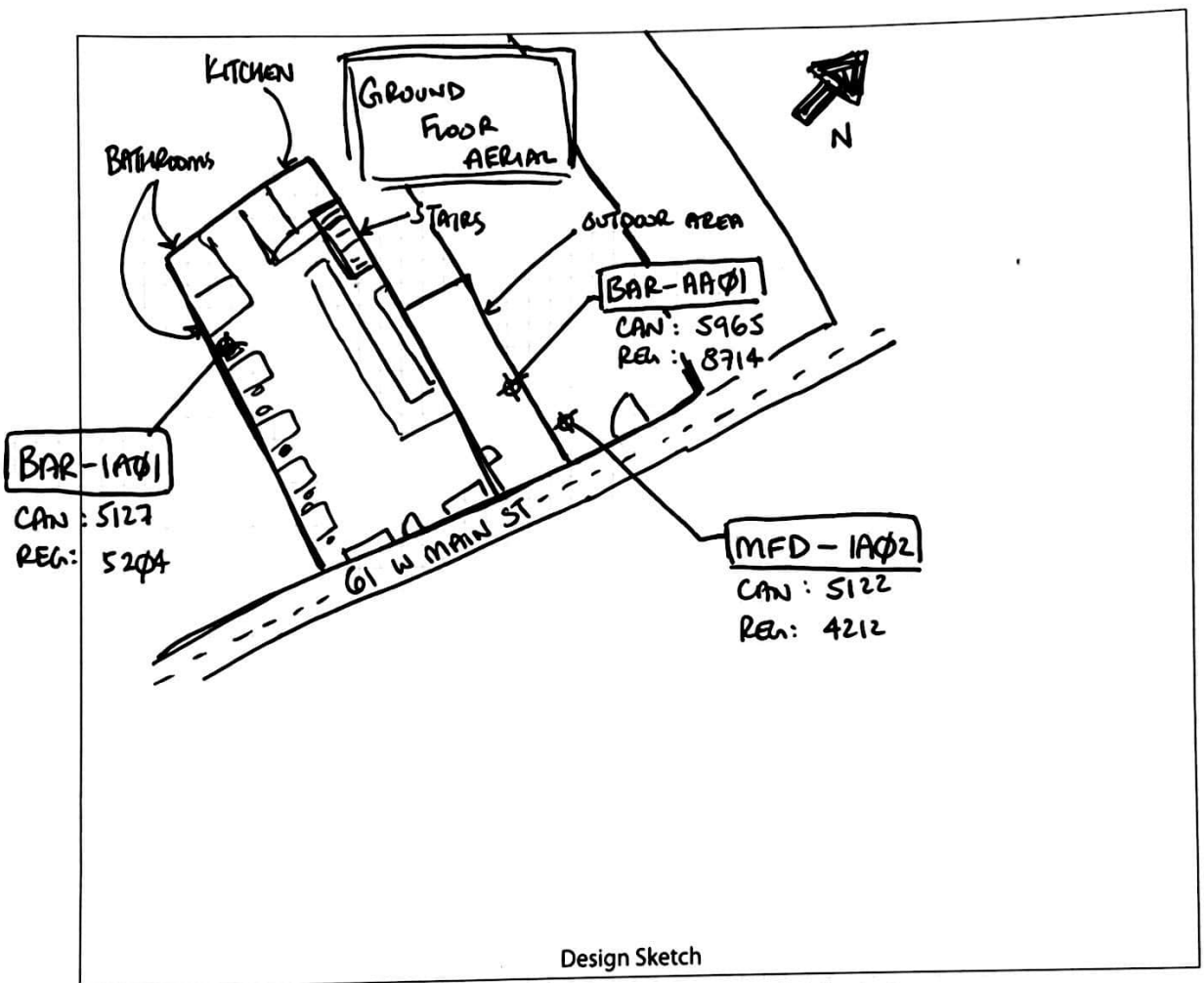
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

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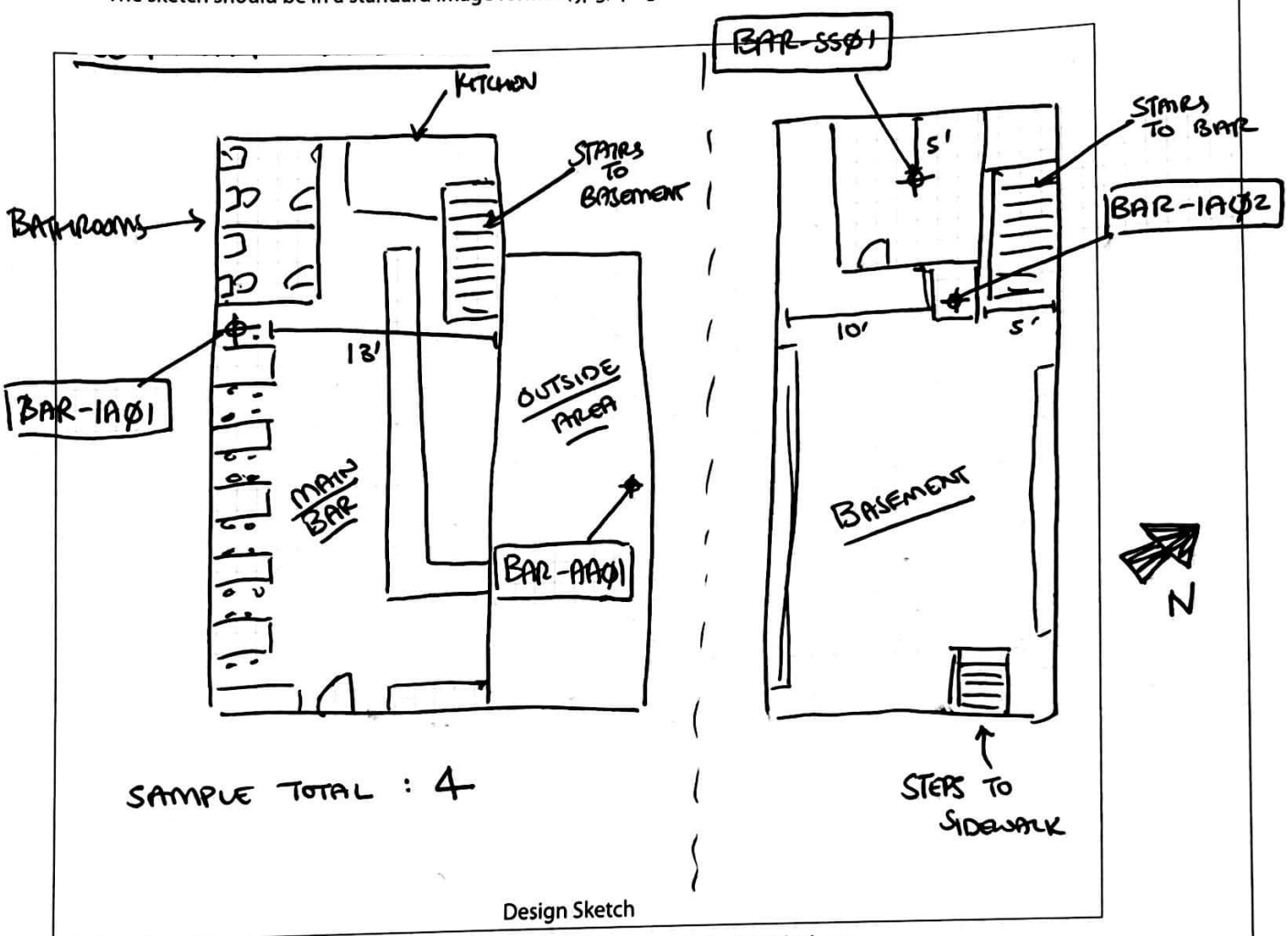
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Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

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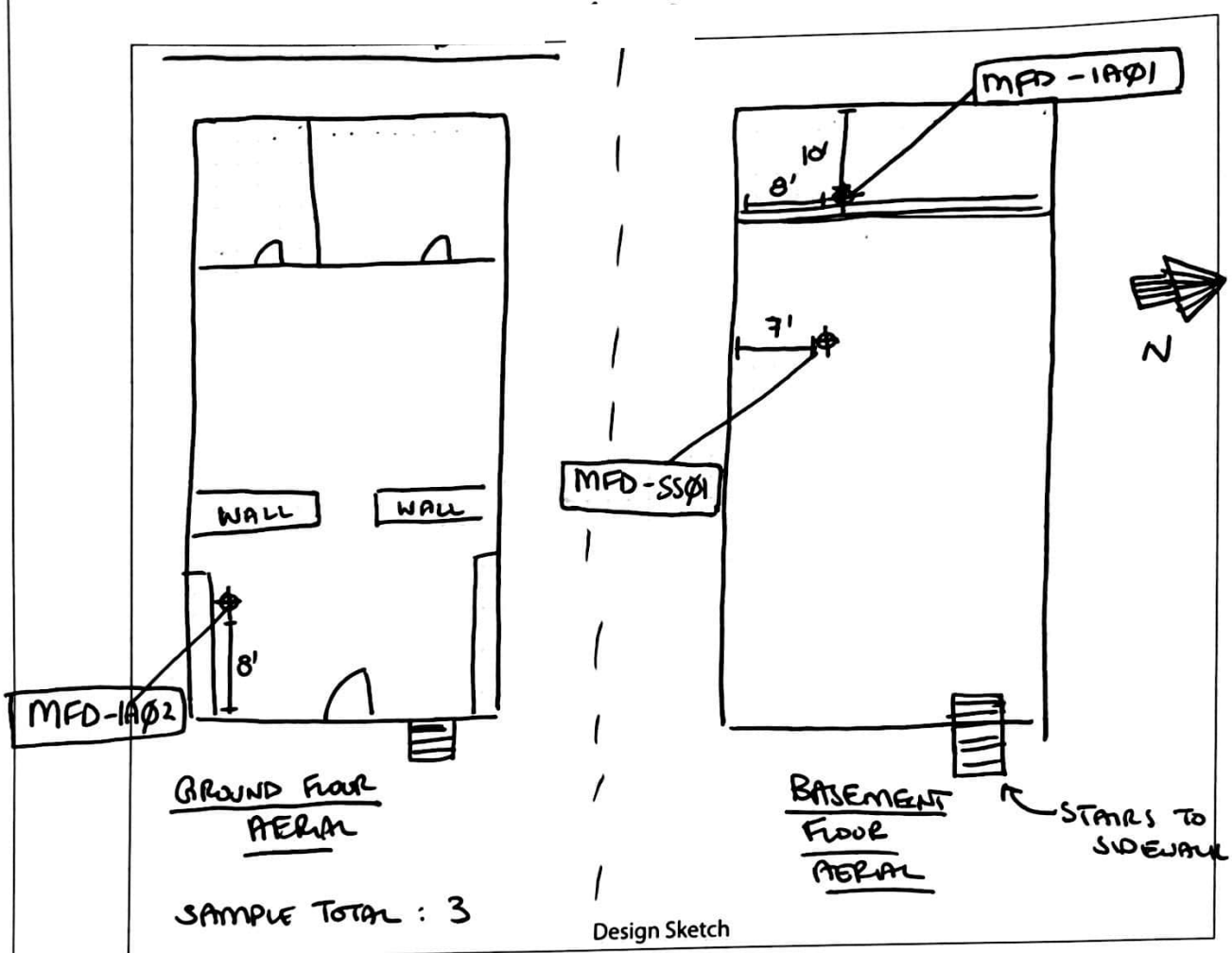
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Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

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Design Sketch

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@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: West Sayville DRY Cleaners Site Code: _____ Operable Unit: _____

Building Code: _____ Building Name: _____

Address: 65 WEST SAYVILLE MAIN ST. Apt/Suite No: _____

City: West Sayville NY State: NY Zip: 11796 County: SUFFOLK

Contact Information

Preparer's Name: _____ Phone No: _____

Preparer's Affiliation: WSP FIELD PERSONNEL Company Code: _____

Purpose of Investigation: VI Investigation Date of Inspection: 4/3/23

Contact Name: _____ Affiliation: _____

Phone No: _____ Alt. Phone No: _____ Email: _____

Number of Occupants (total): VARIES AS Number of Children: 0

☐ Occupant Interviewed? IT IS A RESTAURANT ☐ Owner Occupied? ☒ Owner Interviewed?

Owner Name (if different): _____ Owner Phone: _____

Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): Commercial Bldg Size (S/M/L): S

If Commercial or Industrial Facility, Select Operations: Bar

If Residential Select Structure Type:

Number of Floors: 2 Approx. Year Construction: _____ ☐ Building Insulated? ☒ Attached Garage?

Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):

Foundation Description

Foundation Type: cinder block Foundation Depth (bgs): 5 Unit: FEET

Foundation Floor Material: CONCRETE

Foundation Wall Material: _____

Foundation Floor Thickness: _____ Unit: INCHES

Foundation Wall Thickness: _____

☐ Floor penetrations? Describe Floor Penetrations: NO

☐ Wall penetrations? Describe Wall Penetrations: NO

Basement is: _____ Basement is: _____ ☐ Sumps/Drains? Water In Sump?: _____

Describe Foundation Condition (cracks, seepage, etc.) : _____

☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: Natural gas Heat Fuel Type: _____ ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: _____ Clothes Dryer Fuel Type: _____

Water Htr Vent Location: _____ Dryer Vent Location: _____

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Site Name: WEST SAYVILLE DRY CLEANERS Site Code: ✓ Operable Unit: ✓

Building Code: ✓ Building Name: ✓

Address: C/O 65 W MAIN ST. ~~WEST SAYVILLE, NY~~ Apt/Suite No: ✓

City: WEST SAYVILLE State: NY Zip: 11796 County: SUFFOLK

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: NO Floor Material: CONCRETE

☐ Inhabited? ☒ HVAC System On? ☒ Bathroom Exhaust Fan? NO ☒ Kitchen Exhaust Fan? NO

Alternate Heat Source: ☐ Is there smoking in the building?

☐ Air Fresheners? Description/Location of Air Freshener: NO

☐ Cleaning Products Used Recently?: Description of Cleaning Products: BLEACH, WINDEX + PINE SOL

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products: NO

☐ New Carpet or Furniture? Location of New Carpet/Furniture: NO

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: NO

☐ Recent Painting/Staining? Location of New Painting: NO

☒ Solvent or Chemical Odors? Describe Odors (if any): PINE SOL. CLEANING DAY ON 02/03/23

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: NO

☐ Recent Pesticide/Rodenticide? Description of Last Use: NO

Describe Any Household Activities (chemical use/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

NA

☐ Any Prior Testing For Radon? If So, When?:

☐ Any Prior Testing For VOCs? If So, When?:

Sampling Conditions

Weather Conditions: HIGH OF 55°F SUNNY Outdoor Temperature: 48°F clear °F

Current Building Use: BAR W/ BASEMENT STORAGE Barometric Pressure: 30.06 in(hg)

Product Inventory Complete? Y ☑ Building Questionnaire Completed?

Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: ___ Bldg Code: ___ Date: 4/3/23

Bldg Address: 65 WEST MAIN ST. Apt/Suite No: ___

Bldg City/State/Zip: WEST SAYVILLE, NY 11796

Make and Model of PID: 14401 (FROM PINE RENTALS) ppBRAE Date of Calibration: 4/3/23

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
BASEMENT	KRYLON PAINT PRIMER	12 OZ	OPEN	KETONES, ALPHATIE, HYDROCARBONS, ALETATES		☐
	FLEXSEAL	14 OZ	USED			☐
	WOOD STAIN	8 OZ	USED	SOYA OIL		☐
	PAINT PRIMER	1 QT	USED	100% ACRYLIC		☐
	LACQUER THINNER	32 OZ	OPEN	METHYL ALCOHOL, TOLUENE, ETHYL ACETATE		☐
	HANDY MICH CHARGING FUEL	7	NEW	ETHYLENE GLYCOL, DIETHYLENE GLYCOL		☐
	CONTACT CEMENT	1 GAL	NEW	POLYCHLOROPENE		☐
						☐
				NOTE: ppBRAE WAS USED AND		☐
				AN AMBIENT READING OF 202 ppb		☐
				WAS RECORDED IN THE BASEMENT		☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐ Were there any elevated PID readings taken on site? ☐ ☐ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: _____ Address: 65 West Main St.

Sampling Information

Sampler Name(s): A. LIDDLE & R. BRIGGS

Sampler Company Code: _____

Sample Collection Date: 4/4/23

Date Samples Sent To Lab: _____

Sample Chain of Custody Number: _____

Outdoor Air Sample Location ID: _____

SUMMA Canister Information

Sample ID:	BAR-SS01	BAR-IA01	BAR-IA02	BAR-AA01	
Location Code:					
Location Type:	BASEMENT	1st FLOOR	BASEMENT	OUTSIDE	
Canister ID:	3402	5127	3725	5965	
Regulator ID:	5243	5204	3784	8714	
Matrix:	AIR	AIR	AIR	AIR	
Sampling Method:	SUB-SLAB	INDOOR AIR	INDOOR AIR	AMBIENT	

Sampling Area Info

Slab Thickness (inches):	≈ 4"	—	—	—	
Sub-Slab Material:	CONCRETE	—	—	—	
Sub-Slab Moisture:	—	—	—	—	
Seal Type:	PIN + TUBING	—	—	—	
Seal Adequate?:	☑	☐	☐	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	4/3/23 12:33	4/3/23 12:41	4/3/23 12:37	4/3/23 12:45	
Vacuum Gauge Start:	30	30	30	24	
Sample End Date/Time:	4/4/23	4/4/23	4/4/23 10:15	4/4/23 10:16	
Vacuum Gauge End:			5	4	
Sample Duration (hrs):			21 hrs 38 min	21 hrs 31 min	
Vacuum Gauge Unit:	5243	5204	3784	8714	

Sample QA/QC Readings

Vapor Port Purge:	☑	☐	☐	☐	☐
Purge PID Reading:	629 ppb	—	—	—	
Purge PID Unit:	ppb RAE	—	—	—	
Tracer Test Pass:	☑	☐	☐	☐	☐

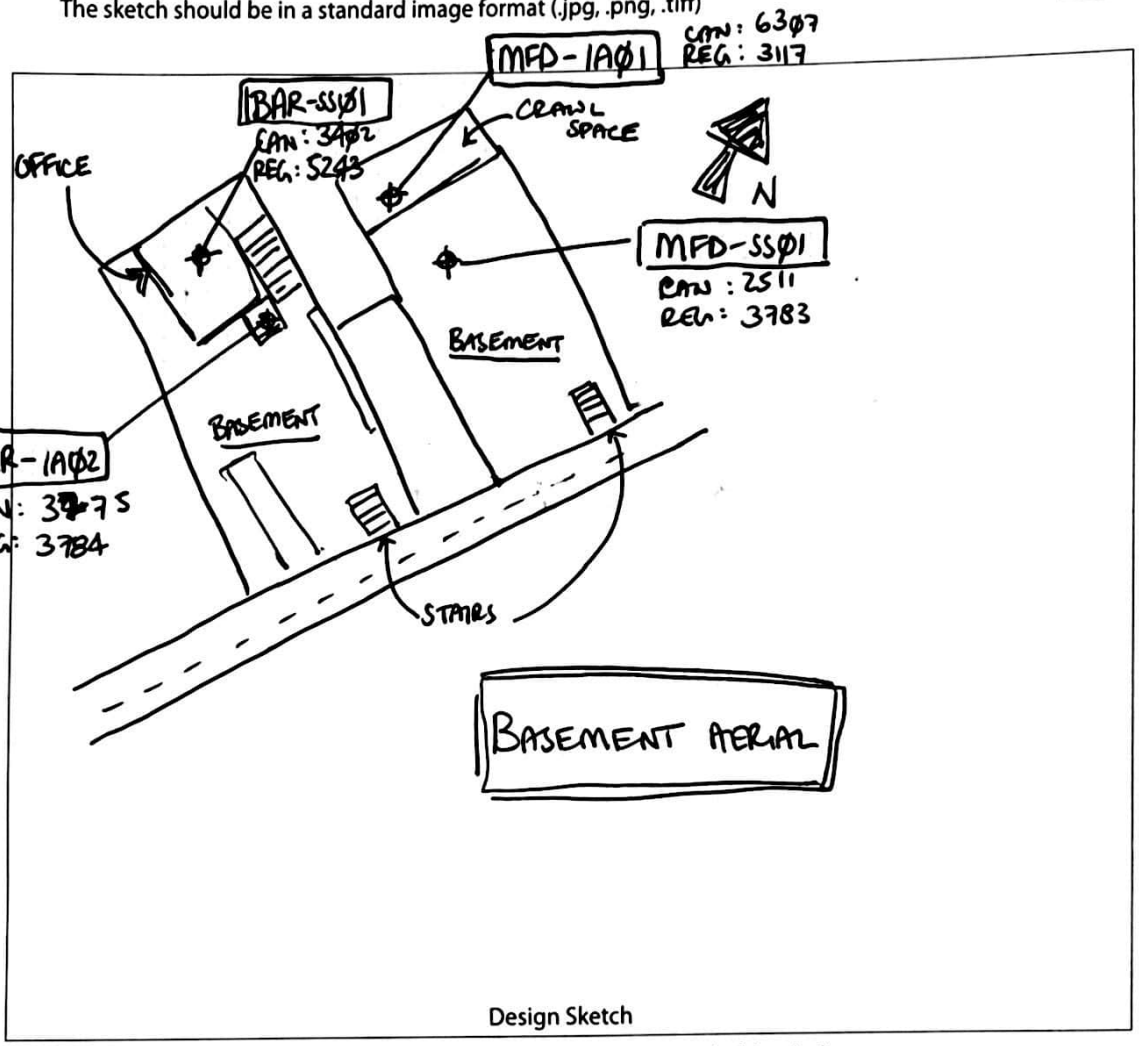
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Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

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Design Sketch

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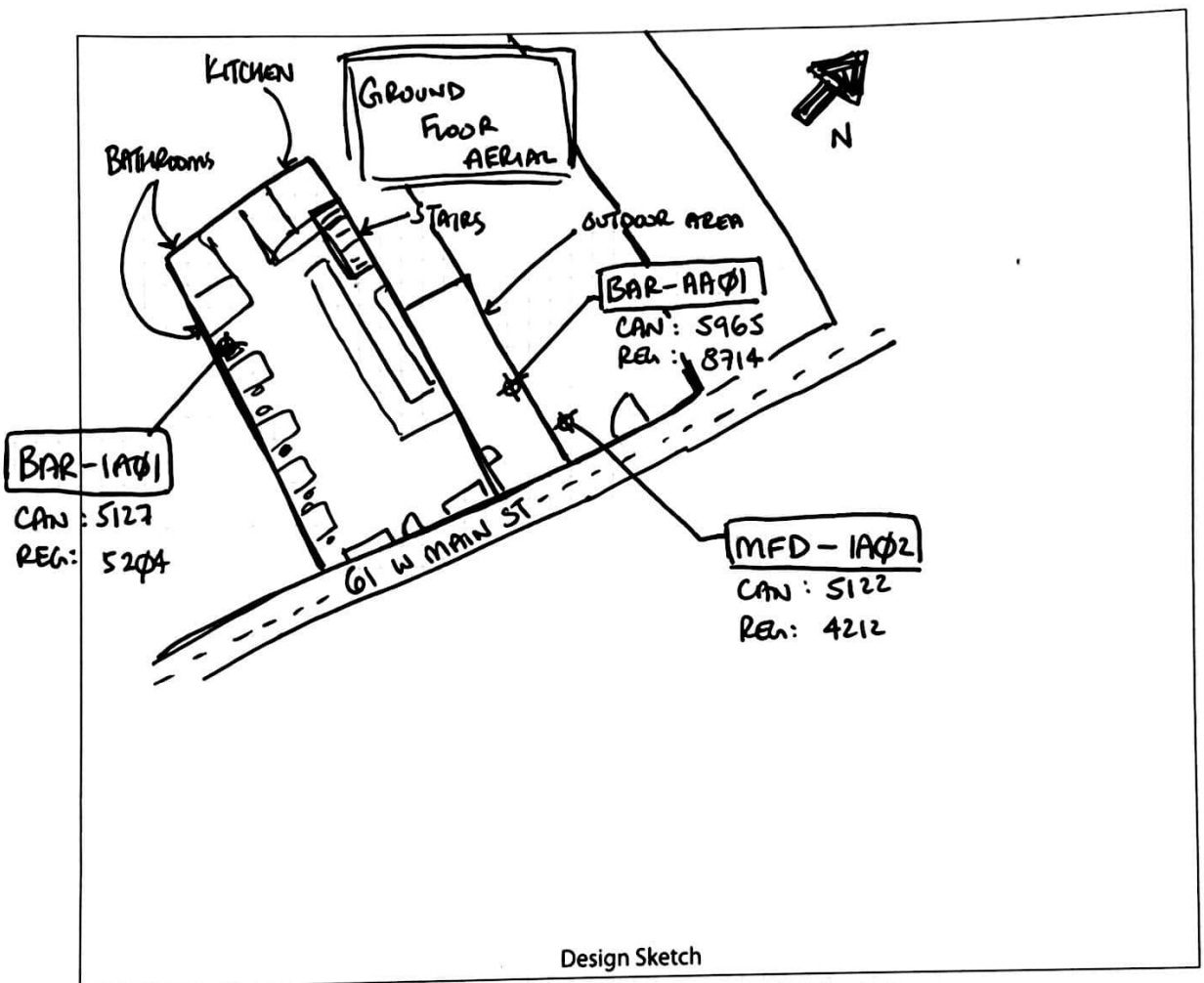
Structure Sampling Questionnaire and Building Inventory

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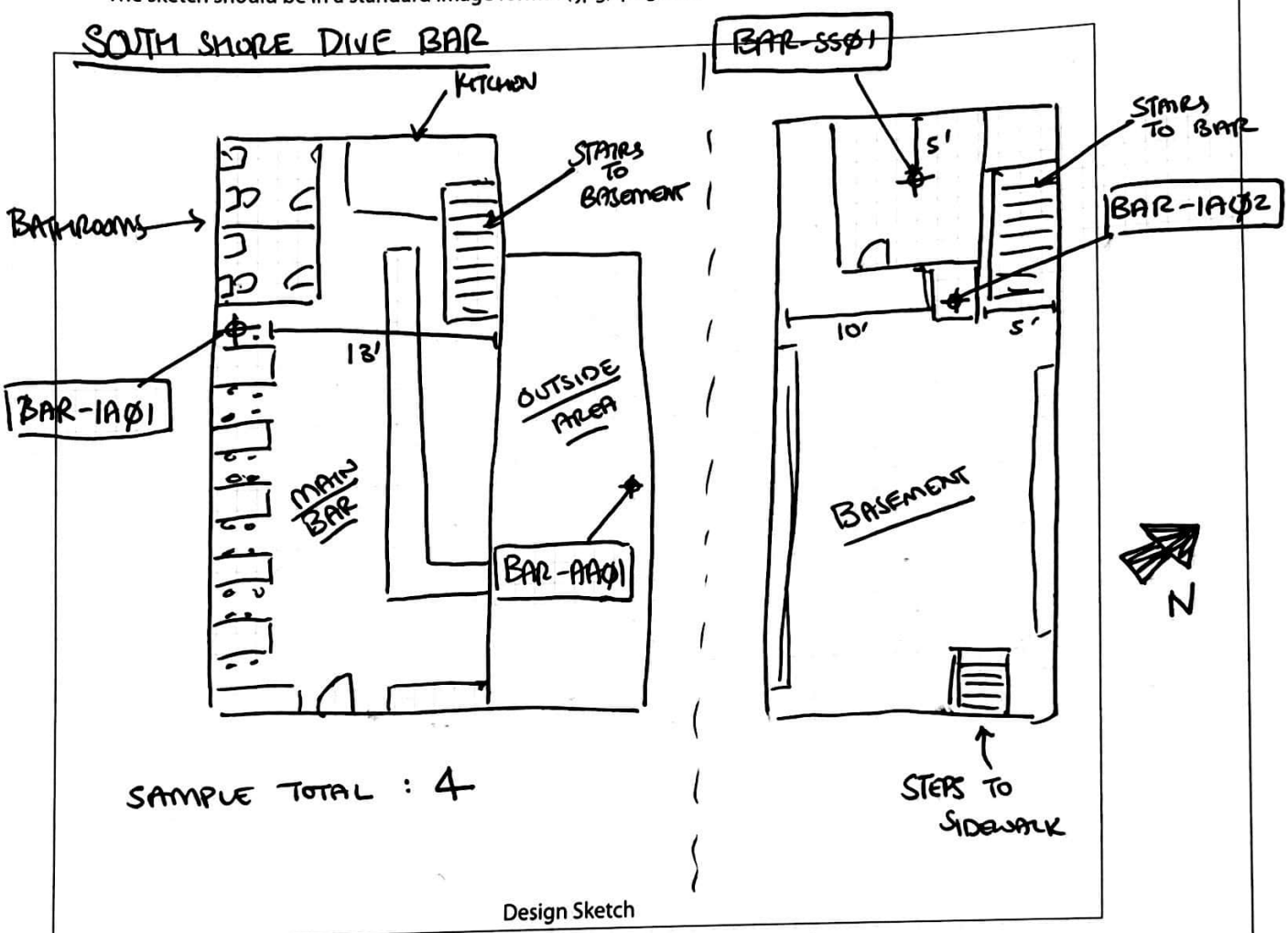
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Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

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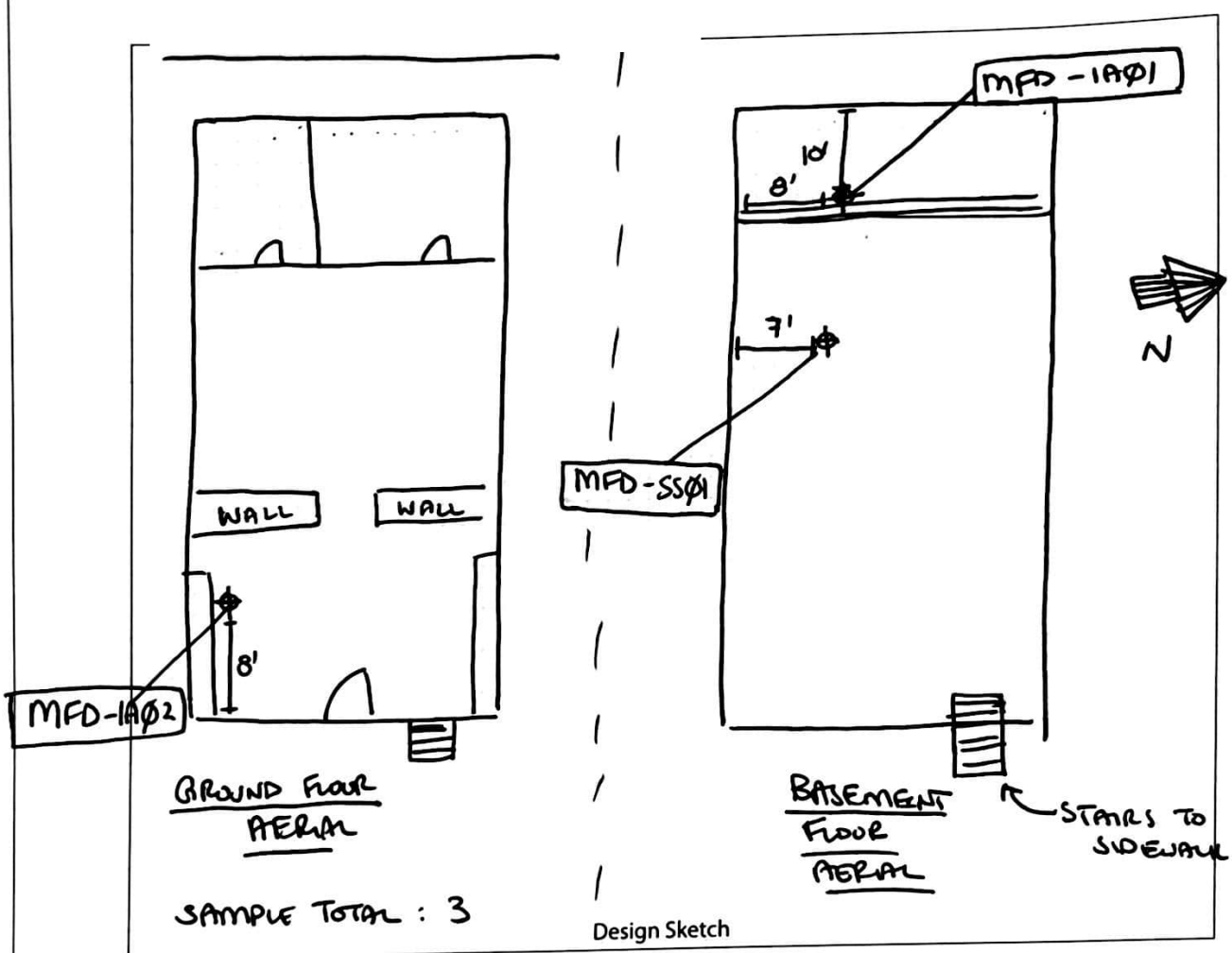
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New York State Department of Environmental Conservation

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G Laboratory Data Packages

Provided separately.

H Waste Profile and Manifests

Profile Number: _____

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GENERATOR WASTE PROFILE SHEET

Section 1 – General Information

Generator Name: New York State Department of Environmental Conservation		
Site Address: 61 Main Street		
Town, State, Zip: West Sayville, NY 11796		
Mail Address: 625 Broadway		
Town, State, Zip: Albany, NY 12233		
Facility Contact/Title: Steeven Imbaquingo / Project Manager, Remedial Bureau A, Section B		
Email Address: Steeven.Imbaquingo@dec.ny.gov		
Phone: (518)402-9739	Fax:	EIN #

Section 2 – Billing Information

Name: Innovative Recycling Technologies, Inc.		
Mail Address: 690 N. Queens Avenue		
Town, State, Zip: Lindenhurst, NY 11757		
Contact/Title: John Dull		
Email Address: jdull@irtwaste.com		
Phone: (631)225-3044	Fax: (631)225-3056	EPA ID#

Section 3 – Waste Composition

Name and Description of Material: Non-Hazardous Soil
Process Generating Waste: From monitoring well advancement.
Estimated Annual Volume: 9X55 gallon drums
Quantity: 9
Type of Shipment: Bulk ☐ Drums ☑ Other ☐

Waste Description (Chemical Composition):
Soil 100%

Section 4 – Material Properties

Total Metals		Yes	No
Arsenic	> 10 ppm	☐	☑
Barium	> 2000 ppm	☐	☑
Cadmium	> 20 ppm	☐	☑
Chromium	> 100 ppm	☐	☑
Lead	> 100 ppm	☐	☑
Mercury	> 4 ppm	☐	☑
Selenium	> 20 ppm	☐	☑
Silver	> 100 ppm	☐	☑
Other Metals (List above)		☐	☑

Section 4 – Material Properties Cont.

Compounds		Yes	No
Sulfur	> 1.5%	☐	☑
Nitrogen	> 20%	☐	☑
Chlorine	> 0.3%	☐	☑
Flourine	> 738 ppm	☐	☑
Bromine	> 300 ppm	☐	☑
Iodine	> 50 ppm	☐	☑
Flashpoint	< 140°F	☐	☑

This determination was based upon: ☑ Analytical Data ☐ Generator Knowledge

Section 4 – Material Properties Continued

Physical State: ☑ Solid ☐ Liquid ☐ Sludge

Reactivity: ☐ Water Reactive ☐ Acid Reactive ☐ Alkaline Reactive
☐ Oxidizer ☑ None

Color: Brown

Odor: ☑ None ☐ Mild ☐ Strong ☐ Other: _____

pH: ☐ <2 ☐ >2-6 ☑ >6-9 ☐ >9-12.5 ☐ >12.5 ☐ NA

Section 5 – Regulatory Waste Classification

Is this waste an EPA Listed Waste per 40 CFR 261? ☐ Yes ☑ No

Is this waste an EPA Characteristic Hazardous Waste per 40 CFR 261? ☐ Yes ☑ No

The regulatory classifications above were based upon:

- ☑ Analytical Data (attach all relevant analysis)
- ☐ Generator Knowledge (check all that apply):
  - ☐ Knowledge of the waste regulations
  - ☐ MSDS provided for material(s)
  - ☐ Information describing the process and materials generating the waste

Proper DOT Shipping Description:

Shipping Name: Non-Hazardous Soil / Non-DOT Regulated Material

UN/NA: _____ PG: _____ Waste Codes: _____

Attach all relevant Material Safety Data Sheets, Laboratory Analyses, Waste Sampling Plans, Flow Chart or Process Schematic if available. Attach separate sheets to disclose all known and suspected hazards, special handling precautions and additional comments.

Desired Destruction Method: ☐ Waste to Energy ☑ Landfill ☐ Recycling/Treatment

Section 6 – Certifications

GENERATOR'S CERTIFICATIONS

I hereby certify the above information is correct to the best of my knowledge. I further certify that JG Environmental will be notified in writing of any process change, which could significantly alter the composition and/or chemical/physical properties of the waste described above.

Print Name: Steeven Imbaquingo Title: Project Manager

Generator Signature: Steeven Imbaquingo Date: 08/10/2023

(Must be signed)

Profile Number: _____

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responsible safe solutions

GENERATOR WASTE PROFILE SHEET

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Contact/Title: John Dull		
Email Address: jdull@irtwaste.com		
Phone: (631)225-3044	Fax: (631)225-3056	EPA ID#

Section 3 – Waste Composition

Name and Description of Material: Non-Hazardous Soil
Process Generating Waste: From monitoring well advancement.
Estimated Annual Volume: 9X55 gallon drums
Quantity: 9
Type of Shipment: Bulk ☐ Drums ☑ Other ☐

Waste Description (Chemical Composition):
Soil 100%

Section 4 – Material Properties

Total Metals		Yes	No
Arsenic	> 10 ppm	☐	☑
Barium	> 2000 ppm	☐	☑
Cadmium	> 20 ppm	☐	☑
Chromium	> 100 ppm	☐	☑
Lead	> 100 ppm	☐	☑
Mercury	> 4 ppm	☐	☑
Selenium	> 20 ppm	☐	☑
Silver	> 100 ppm	☐	☑
Other Metals (List above)		☐	☑

Section 4 – Material Properties Cont.

Compounds		Yes	No
Sulfur	> 1.5%	☐	☑
Nitrogen	> 20%	☐	☑
Chlorine	> 0.3%	☐	☑
Flourine	> 738 ppm	☐	☑
Bromine	> 300 ppm	☐	☑
Iodine	> 50 ppm	☐	☑
Flashpoint	< 140°F	☐	☑

This determination was based upon: ☑ Analytical Data ☐ Generator Knowledge

Section 4 – Material Properties Continued

Physical State: ☑ Solid ☐ Liquid ☐ Sludge

Reactivity: ☐ Water Reactive ☐ Acid Reactive ☐ Alkaline Reactive
☐ Oxidizer ☑ None

Color: Brown

Odor: ☑ None ☐ Mild ☐ Strong ☐ Other: _____

pH: ☐ <2 ☐ >2-6 ☑ >6-9 ☐ >9-12.5 ☐ >12.5 ☐ NA

Section 5 – Regulatory Waste Classification

Is this waste an EPA Listed Waste per 40 CFR 261? ☐ Yes ☑ No

Is this waste an EPA Characteristic Hazardous Waste per 40 CFR 261? ☐ Yes ☑ No

The regulatory classifications above were based upon:

- ☑ Analytical Data (attach all relevant analysis)
- ☐ Generator Knowledge (check all that apply):
  - ☐ Knowledge of the waste regulations
  - ☐ MSDS provided for material(s)
  - ☐ Information describing the process and materials generating the waste

Proper DOT Shipping Description:

Shipping Name: Non-Hazardous Soil / Non-DOT Regulated Material

UN/NA: _____ PG: _____ Waste Codes: _____

Attach all relevant Material Safety Data Sheets, Laboratory Analyses, Waste Sampling Plans, Flow Chart or Process Schematic if available. Attach separate sheets to disclose all known and suspected hazards, special handling precautions and additional comments.

Desired Destruction Method: ☐ Waste to Energy ☑ Landfill ☐ Recycling/Treatment

Section 6 – Certifications

GENERATOR'S CERTIFICATIONS

I hereby certify the above information is correct to the best of my knowledge. I further certify that JG Environmental will be notified in writing of any process change, which could significantly alter the composition and/or chemical/physical properties of the waste described above.

Print Name: Steeven Imbaquingo Title: Project Manager

Generator Signature: Steeven Imbaquingo Date: 08/10/2023

(Must be signed)

Data Usability Summary Reports

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs
  - *SOP NO. HW-33A, Rev. 0, Low/Medium Volatile Data Validation*
  - *SOP NO. HW-35A, Rev. 0, Semivolatile Data Validation*
  - *SOP NO. HW-36A, Rev. 0, Pesticide Data Validation*
  - *SOP NO. HW-37A, Rev. 0, Polychlorinated Biphenyl (PCB) Aroclor Data Validation*
  - *SOP NO. HW-17, Rev. 3.1, Chlorinated Herbicides*
  - *SOP NO. HW-3B, Rev. 0, ICP-MS Data Validation*
  - *SOP NO. HW-3C, Rev. 0, Mercury and Cyanide Data Validation*
  - *Sampling, Analysis, and Assessment of Per-And Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs*

Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0030	460-282859-1	Eurofins Environment Testing Edison, NJ

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
460-282859-1	WG	DUP-01	460-282859-14	06/20/2023 00:00	FD	
460-282859-1	WQ	FB-01	460-282859-13	06/20/2023 00:00	FB	
460-282859-1	WG	MW-1A	460-282859-1	06/20/2023 13:55		
460-282859-1	WG	MW-1B	460-282859-2	06/20/2023 13:15		
460-282859-1	WG	MW-1C	460-282859-3	06/20/2023 12:27		
460-282859-1	WG	MW-2A	460-282859-4	06/20/2023 16:00	MS/MSD	
460-282859-1	WG	MW-2B	460-282859-5	06/20/2023 14:10		
460-282859-1	WG	MW-2C	460-282859-6	06/20/2023 13:35		
460-282859-1	WG	MW-3A	460-282859-7	06/20/2023 11:10		
460-282859-1	WG	MW-3B	460-282859-8	06/20/2023 10:30	MS/MSD	
460-282859-1	WG	MW-3C	460-282859-9	06/20/2023 09:10		
460-282859-1	WG	MW-4A	460-282859-10	06/20/2023 10:15		
460-282859-1	WG	MW-4B	460-282859-11	06/20/2023 09:43		
460-282859-1	WG	MW-4C	460-282859-12	06/20/2023 08:47		
460-282859-1	WQ	TB-01	460-282859-15	06/20/2023 00:00	TB	

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
460-282859-1	WG	8260D	Volatile Organic Compounds by GC/MS	13	N/FD
460-282859-1	WQ	8260D	Volatile Organic Compounds by GC/MS	2	FB/TB
460-282859-1	WG	8270E	Semivolatile Organic Compounds by GC/MS	4	N/FD
460-282859-1	WQ	8270E	Semivolatile Organic Compounds by GC/MS	1	FB
460-282859-1	WG	8270E-SIM	1,4-Dioxane by GC/MS	4	N/FD
460-282859-1	WQ	8270E-SIM	1,4-Dioxane by GC/MS	1	FB
460-282859-1	WG	6020B	Metals (ICP)	4	N/FD

Data Usability Summary Report	Project: West Sayville
Date Completed: August 4, 2023	Completed by: Eridania Marte

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
460-282859-1	WQ	6020B	Metals (ICP)	1	FB
460-282859-1	WG	7470A	Mercury (CVAA)	4	N/FD
460-282859-1	WQ	7470A	Mercury (CVAA)	1	FB
460-282859-1	WG	8081B	Organochloride Pesticides by GC/ECD	4	N/FD
460-282859-1	WQ	8081B	Organochloride Pesticides by GC/ECD	1	FB
460-282859-1	WG	8082A	Polychlorinated Biphenyls GC/ECD	4	N/FD
460-282859-1	WQ	8082A	Polychlorinated Biphenyls GC/ECD	1	FB
460-282859-1	WG	SW7196A	Hexavalent Chromium	4	N/FD
460-282859-1	WQ	SW7196A	Hexavalent Chromium	1	FB
460-282859-1	WG	8151A	Herbicides by GC/ECD	4	N/FD
460-282859-1	WQ	8151A	Herbicides by GC/ECD	1	FB
460-282859-1	WG	1633	Per- and Polyfluorinated Substances	4	N/FD
460-282859-1	WQ	1633	Per- and Polyfluorinated Substances	1	FB

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6ºC and in good condition as indicated on COC and Cooler Receipt Form?	No. Sample were received by the subcontract lab at 1.4º C and 1.7º C. There was no indication of freezing; therefore, no qualification was made.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Equipment Blank - 1/ 20 samples?	Water: 1 FD per 12 samples. 1 MS/MSD per 12 samples. 1 field blank collected. 1 trip blank collected.
Case narrative present and complete?	Yes.
Any holding time violations?	Yes. Samples DUP-01-20230620, MW-1B-20230620, MW-2A-20230620, and MW-3B-20230620 were received outside of holding time and unpreserved for Cr6 Method SW7196A. Per client the lab is instructed to proceed with analysis. The sample results were non-detect and UR qualified as unusable.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- IDA Recoveries Outside Limits (Table 3A)
- MS/MSD and RPD Outside Limits (Table 4)
- LCS/ICV/CCV Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate/ Lab Replicate Results (Table 7)

Go to List

Volatile Organic Compounds by GC/MS – Method 8260D	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	Yes. Chloroform and methylene chloride were detected in field and/or trip blank sample. Chloroform was detected at levels greater than the PQL.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs. (See Table 2B)	Multiple sample results were qualified based on blank detections. In the instances the sample detect was less than five times the blank detection the sample results were U qualified as non-detect and elevated to the MDL.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix. (See Table 4A)	Yes.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is %D in the continuing calibration for target compounds less than method specifications? (See Table 5B)	No. Chlorobromomethane exhibited a %D outside acceptance criteria in CCV 460-918761/2. The associated non-detect sample results were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Yes.
For TICs are there any system related compounds that should not be reported?	Not applicable.
Do field duplicate results show good precision for all compounds (see Table 7)?	Field duplicate precision was unable to be determined due to no detections in associated sample results.

Semi-volatile Organic Compounds by GC/MS – Method 8270D/SIM	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.

Semi-volatile Organic Compounds by GC/MS – Method 8270D/SIM	
Description	**Notes and Qualifiers**
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	No. 3,3'-Dichlorobenzidine and 4-chloroaniline recovered outside acceptance criteria in the MS and/or MSD for sample MW-2A-20230620. In the instances the percent recovery was low the non-detect results were UJ qualified as estimated non-detect. 4-Chloroaniline exhibited poor precision between the MS and MSD for sample MW-2A-20230620. The non-detect result was UJ qualified as estimated non-detect.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required. (See Table 5)	No. Atrazine and benzaldehyde recovered above the acceptance criteria in the LCS and LCSD in batch 460-917195. Sample results were non-detect; therefore, no qualification was made.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is initial calibration verification (ICV) within QC criteria? (See Table 5B)	Yes.
Is %D in the continuing calibration for target compounds less than method specifications? (See Table 5B)	No. Benzaldehyde and bis(2-ethylhexyl) phthalate exhibited a %D outside of the control limits in multiple CCVs. Multiple samples were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Field duplicate precision was unable to be determined due to no detections in associated sample results.

Pesticides by GC/ECD – Method 8081B	
Description	**Notes and Qualifiers**
Are any compounds present in method blanks as noted on Table 2?	No.
For samples, if results are <5 times the blank then "U" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.
Is laboratory QC frequency one blank and LCS with each batch and one MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 4 and 4A)? If out and LCS is compliant, then J flag positive data in original sample due to matrix.	No. Multiple analytes were recovered above the acceptance criteria in the MS and/or MSD. The sample results were non-detect; therefore, no qualification was made.
Is LCS within QC criteria (see Table 5 and 5A)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <20 %RSD? Is initial calibration verification <20%D?	Yes.
Is continuing calibration for target compounds <20 %D? (See Table 5B)	No. Multiple analytes exhibited a %D outside acceptance criteria in CCVs associated with analytical batch 460-917283. The associated sample results which were non-detect were UJ qualified as estimated non-detect.
Spot check retention time windows and second column confirmations as complete.	Yes.
Spot check performance evaluation mixture? %Breakdown <15%	Yes.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Field duplicate precision was unable to be determined due to no detections in associated sample results.

PCB Aroclors by GC/ECD – Method 8082A	
Description	**Notes and Qualifiers**
Are any compounds present in method blanks as noted on Table 2?	No.
For samples, if results are <5 times the blank then "U" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.

PCB Aroclors by GC/ECD – Method 8082A	
Description	**Notes and Qualifiers**
Is laboratory QC frequency one blank and LCS with each batch and one MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 4 and 4A)? If out and LCS is compliant, then J flag positive data in original sample due to matrix.	Yes.
Is LCS within QC criteria (see Table 5 and 5A)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit? Is initial calibration verification <20%D?	Yes.
Is continuing calibration for target compounds <15%D? (See Table 5B)	Yes.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	No.
Spot check retention time windows and second column confirmations as complete.	Yes.
Do field duplicate results show good precision for all compounds (see Table 7)?	Field duplicate precision was unable to be determined due to no detections in associated sample results.

Herbicides by GC/ECD – Method SW8151	
Description	**Notes and Qualifiers**
Are any compounds present in method blanks as noted on Table 2?	No.
For samples, if results are <5 times the blank then "U" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	No. 2,4-Dichlorophenylacetic acid was recovered outside of the acceptance criteria. The sample results were non-detect; therefore, no qualification was made.
Is laboratory QC frequency one blank and LCS with each batch and one MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 4 and 4A)? If out and LCS is compliant, then J flag positive data in original sample due to matrix.	Yes.
Is LCS within QC criteria (see Table 5 and 5A)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <20 %RSD? Is initial calibration verification <20%D?	Yes.
Is continuing calibration for target compounds <20 %D?	Yes.
Spot check retention time windows and second column confirmations as complete.	Yes.

Herbicides by GC/ECD – Method SW8151	
Description	**Notes and Qualifiers**
Spot check performance evaluation mixture? %Breakdown <15%	Yes.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	Yes.
Do field duplicate results show good precision for all compounds (see Table 7)?	Field duplicate precision was unable to be determined due to no detections in associated sample results.

Metals by Method 6010D	
Description	**Notes and Qualifiers**
Are any compounds present in method and field blanks as noted on Table 2?	No.
For samples, if results are < 5 times the blank then "U" flag data.	Not applicable.
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount. All N flagged data for MS are flagged J as estimated.	Yes.
Were elements recovered ≤30%? If so, "R" flag associated NDs.	No.
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required. (See Table 5)	Yes.
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.
Are serial dilution within QC criteria? (see Table 5)	Yes.
Is CRDL within QC criteria? (80-120%). All lead samples must be re-digested and reanalyzed or the data qualified if unacceptable.	Yes.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Yes.
Spot check CCV 90-110%. Contact lab if unacceptable.	Yes.
Spot check ICVL/CCVL 80-120%. Contact lab if unacceptable.	Yes.
Were samples re-analyzed or diluted? (see Table 6)	No.
Do field/laboratory duplicate results show good precision for all compounds (see Table 7)?	Yes.

Hexavalent Chromium by Method SW7196A	
Description	**Notes and Qualifiers**
Are any compounds present in method and field blanks as noted on Table 2?	No.

Hexavalent Chromium by Method SW7196A	
Description	**Notes and Qualifiers**
For samples, if results are < 5 times the blank then "U" flag data.	Not applicable.
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount. All N flagged data for MS are flagged J as estimated.	Yes.
Were elements recovered ≤30%? If so, "R" flag associated NDs.	No.
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is CRDL within QC criteria? (80-120%). All lead samples must be re-digested and reanalyzed or the data qualified if unacceptable.	Yes.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Yes.
Spot check CCV 90-110%. Contact lab if unacceptable.	Yes.
Spot check ICVL/CCVL 70-130%. Contact lab if unacceptable.	Yes.
Were samples re-analyzed or diluted? (see Table 6)	No.
Do field/laboratory duplicate results show good precision for all compounds (see Table 7)?	Field duplicate precision was unable to be determined due to no detections in associated sample results.

Mercury by CVAA / Cyanide - Method SW7471/9014	
Description	**Notes and Qualifiers**
Are any compounds present in method blanks as noted on Table 2?	No.
For samples, if results are <5 times the blank then "U" flag data.	Not applicable.
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 4 and 4A)? If not, was a post distillation spike performed for cyanide? QC limits are not applicable to sample results greater than 4 times spike amount.	Yes.
Were elements recovered ≤30%? If so, "R" flag associated NDs.	Not applicable.
Is LCS within QC criteria (see Table 5 and 5A)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Spot check ICV 85-115%. Contact lab if unacceptable.	Yes.

Mercury by CVAA / Cyanide - Method SW7471/9014	
Description	**Notes and Qualifiers**
Spot check CCV 85-115%. Contact lab if unacceptable.	Yes.
Spot check ICB/CCB +/- RL. Contact lab if unacceptable.	Yes.
Are laboratory duplicates within limits? (see Table 4B)	Not applicable.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Field duplicate precision was unable to be determined due to no detections in associated sample results.

Perfluorinated Compounds by LC/MS/MS – Method 1633	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 10 times the blank contaminants, then "J+" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3).	Yes.
Are Isotope Dilution Analytes within limits? (See Table 3A).	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then “J” flag positive data in original sample due to matrix.	Not applicable.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for compounds by isotope dilution <35 %RSD or curve fit; and compounds quantitated by isotope dilution analytes (IDA) <50% RSD? Is the initial calibration verification within or equal to 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA.	Yes.
Is continuing calibration for compounds by isotope dilution equal to or within 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA.	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Summary of Findings

VOCs by 8260D

- The field blank contained chloroform and methylene chloride. The trip blank contained methylene chloride. All detected sample results associated with this field blank, were U qualified as non-detect for chloroform and sample result was elevated to the MDL value. All detected sample results associated with this trip blank, were U qualified as non-detect for methylene chloride and sample result was elevated to the MDL value.
- Chlorobromomethane was recovered outside of the acceptance criteria for continuing calibration. All sample results were UJ qualified as estimated non-detect.

SVOCs by 8270E

- 3,3'-Dichlorobenzidine and 4-chloroaniline recovered outside acceptance criteria in the MS and/or MSD for sample MW-2A-20230620. In the instances the percent recovery was low the non-detect results were UJ qualified as estimated non-detect.
- Atrazine and benzaldehyde recovered above the acceptance criteria in the LCS and LCS. However, associated sample results were non-detect, and no qualifications were required.
- Benzaldehyde and bis(2-ethylhexyl) phthalate were recovered outside of the acceptance criteria for continuing calibration. Multiple sample results were UJ qualified as estimated non-detect.

Pesticides by 8081B

- Multiple analytes were recovered above the acceptance criteria in the MS and/or MSD. The sample results were non-detect; therefore, no qualification was made.
- Endosulfan sulfate, methoxychlor, endrin, and endrin ketone were recovered outside of the acceptance criteria for continuing calibration. Multiple sample results were UJ qualified as estimated non-detect

Hexavalent Chromium by SW7196A

- Hexavalent chromium was received unpreserved and outside of holding time (48 hours outside). The sample results were non-detect and qualified as unusable (UR).

Herbicides by 8151A

- 2,4-Dichlorophenylacetic acid was recovered outside of the acceptance criteria. The sample results were non-detect; therefore, no qualification was made.

Perfluorinated Compounds by 1633

- Several compounds were presumptively identified and the associated sample value is an estimated maximum possible concentration. The sample results were qualified as presumptively identified (NJ). See table 8.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
SW8260D	FB-01-20230620	FB	Chloroform	3.4		ug/l	0.33	1.0
SW8260D	FB-01-20230620	FB	Methylene Chloride	0.94	J	ug/l	0.32	1.0
SW8260D	TB-01-20230620	TB	Methylene Chloride	0.36	J	ug/l	0.32	1.0

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 2B - List of Samples Qualified for Field Blank Contamination

Method	Field Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Sample Qualifier
SW8260D	FB-01-20230620	FB	Chloroform	3.4	0.34	J	1.0	MW-3B-20230620	U Flag
SW8260D	TB-01-20230620	TB	Methylene Chloride	0.36	0.44	J	1.0	MW-1C-20230620	U Flag

Table 3 - List of Samples with Surrogates outside Control Limits

Method	Sample ID	Analyte	Rec.	Low Limit	High Limit	Sample Qualifier
SW8151A	MW-3B-20230620	2,4-Dichlorophenylacetic Acid	555	38	150	None – High & ND

Table 3A – List of Samples with Isotope Dilution Recovery outside Control Limits
None.

Table 4A – List of MS/MSD Recoveries outside Control Limits

Method	Parent Sample	Sample Type	Analyte	Orig. Result	Spike Amount	Unit	Low Limit	High Limit	MS	SD	Sample Qualifier
8270E	MW-2A-20230620	MS	3,3'-Dichlorobenzidine	ND	80.0	ug/l	56	137	45	--	UJ Flag
8270E	MW-2A-20230620	MS/MSD	4-Chloroaniline	ND	80.0	ug/l	51	127	9	15	UJ Flag
SW8081B	MW-2A-20230620	MS/MSD	Endosulfan Sulfate	ND	0.800	ug/l	60	131	171	168	None – High & ND
SW8081B	MW-2A-20230620	MS/MSD	Endrin	ND	0.800	ug/l	71	122	151	147	None – High & ND
SW8081B	MW-2A-20230620	MS/MSD	Heptachlor	ND	0.800	ug/l	74	127	133	134	None – High & ND
SW8081B	MW-2A-20230620	MS	Heptachlor Epoxide	ND	0.800	ug/l	74	128	129	--	None – High & ND
SW6020B	MW-2A-20230620	MSD	Calcium	35300	2500	ug/l	75	125	--	70	None – 4X

Table 4B – List of MS/MSD RPD outside Control Limits

Method	Sample ID	Analyte	RPD	RPD Limit	Sample Qualifier
8270E	MW-2A-20230620	4-Chloroaniline	47	30	UJ Flag

Table 5 – List of LCS Recoveries outside Control Limits

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Affected Samples	Sample Qualifier
8270E	460-917195/2-A	LCS	Atrazine	366	10	150	MW-1B MW-2A	None – High & ND
8270E	460-917195/2-A	LCS	Benzaldehyde	318	10	150		
8270E	460-917195/3-A	LCSD	Atrazine	370	10	150		
8270E	460-917195/3-A	LCSD	Benzaldehyde	316	10	150		

Table 5A – List of LCS/LCSD RPD outside Control Limits
None.

Table 5B – List of ICV/CCV recoveries outside Control Limits

Method	Lab Sample Name	Sample Type	Analyte	%RSD or %D	%RSD or %D Limit	Associated Samples	Qualifier
SW8260D	460-918761/2	CCV	Chlorobromomethane	-20.8	20	All samples	UJ Flag
8270E	460-917324/2	CCV	Benzaldehyde	-56.1	20	MW-1B MW-2A	UJ Flag
8270E	460-917324/2	CCV	Bis(2-ethylhexyl) phthalate	-20.4	20		
8270E	460-917328/2	CCV	Benzaldehyde	-55.2	20	MW-3B FB-01 DUP-01	UJ Flag
SW8081B	460-917283/3	CCV	Endosulfan sulfate	51.7	20	MW-1B MW-2A MW-3B FB-01 DUP-01	UJ Flag
SW8081B	460-917283/3	CCV	Methoxychlor	21.2	20		
SW8081B	460-917283/3	CCV	Endrin	26.1	20		
SW8081B	460-917283/3	CCV	Endrin ketone	28.1	20		

Table 6 –Samples that were Re-analyzed/Diluted
None.

Table 7 – List of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	MW-1B-20230620	DUP-01-20230620	RPD	RPD Rating	Sample Qual
SW6020B	Arsenic	ug/l	WG	2.0	2.9	2.7	7.1%	Good	None
SW6020B	Barium	ug/l	WG	4.0	8.3	7.9	4.9%	Good	None
SW6020B	Calcium	ug/l	WG	500	30700	32700	6.3%	Good	None
SW6020B	Cobalt	ug/l	WG	4.0	0.87	0.85	2.3%	Good	None
SW6020B	Iron	ug/l	WG	120	5860	6120	4.3%	Good	None
SW6020B	Magnesium	ug/l	WG	200	3840	4000	4.1%	Good	None
SW6020B	Manganese	ug/l	WG	8.0	43.2	46.5	7.4%	Good	None
SW6020B	Nickel	ug/l	WG	4.0	1.2	1.3	8.0%	Good	None
SW6020B	Potassium	ug/l	WG	200	5080	5290	4.1%	Good	None
SW6020B	Sodium	ug/l	WG	500	32600	34200	4.8%	Good	None
1633	Perfluorobutanesulfonic acid	ng/l	WG	0.28	5.9	6.1	3.3%	Good	None
1633	Perfluorobutanoic acid	ng/l	WG	1.86	4.2	4.23	0.7%	Good	None
1633	Perfluorodecanoic acid	ng/l	WG	0.47	0.52	ND	NC	Good	None - <2X PQL
1633	Perfluoroheptanoic acid	ng/l	WG	0.48	2.6	2.68	3.0%	Good	None
1633	Perfluorohexanesulfonic acid	ng/l	WG	0.53	2.31	2.68	14.8%	Good	None
1633	Perfluorohexanoic acid	ng/l	WG	0.47	3.31	3.41	3.0%	Good	None
1633	Perfluorononanoic acid	ng/l	WG	0.47	1.4	0.98	35.3%	Good	None
1633	Perfluorooctanesulfonic acid	ng/l	WG	0.47	14.4	14.9	3.4%	Good	None
1633	Perfluorooctanoic acid	ng/l	WG	0.6	12.5	12.7	1.6%	Good	None
1633	Perfluoropentanoic acid	ng/l	WG	0.93	2.86	2.92	2.1%	Good	None

Table 8 – List of presumptively identified PFAs Compounds

Method	Sample Name	Analyte	Sample Result	Sample Qual
1633	MW-1B	Perfluoropentanoic acid	2.86 JI	NJ
1633	MW-3B	Perfluoropentanoic acid	12.9 I	NJ
1633	MW-3B	Perfluorohexanoic acid	14.9 I	NJ
1633	MW-3B	Perfluoropentanesulfonic acid	0.77 JI	NJ
1633	DUP-01	Perfluorooctanesulfonic acid	14.9 I	NJ

Acronym List and Table Key:

CCB	=	continuing calibration blank
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
FB	=	field blank
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICS	=	initial calibration standard
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
µg/L	=	micrograms per liter
MS	=	matrix spike
MSD	=	matrix spike duplicate
MSS	=	matrix spike soluble
MSI	=	matrix spike insoluble
ng/L	=	nanograms per liter
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QAPP	=	quality assurance project plan
QC	=	quality control
RPD	=	relative percent difference
SDG	=	sample delivery group
SO	=	soil
SQ	=	soil quality control
TB	=	trip blank

Data Usability Summary Report	Project: West Sayville
Date Completed: August 4, 2023	Completed by: Eridania Marte

Acronym List and Table Key:

TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
WA	=	water
WG	=	water grab
WQ	=	water quality control

Data Usability Summary Report	Project: West Sayville Dry Cleaners
Date Completed: May 25, 2023	Completed by: Nick Archer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0030	460-280597-1	Eurofins Burlington

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
460-280597-1	GS	DUP_1	460-280597-2	2023/05/15 14:38:00	FD	
460-280597-1	GS	SG_1	460-280597-1	2023/05/15 14:38:00		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
460-280597-1	GS	TO15	Volatile Organic Compounds by GC/MS	2	N/FD

Data Usability Summary Report	Project: West Sayville Dry Cleaners
Date Completed: May 25, 2023	Completed by: Nick Archer

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	Yes. One field duplicate was collected.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- IDA Recoveries Outside Limits (Table 3A)
- MS/MSD and RPD Outside Limits (Table 4)
- LCS/CCV/ICV Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)
- Laboratory Duplicate Results (Table 7)

Go to List

Data Usability Summary Report	Project: West Sayville Dry Cleaners
Date Completed: May 25, 2023	Completed by: Nick Archer

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit?	No. 1,2,4-Trichlorobenzene and naphthalene was recovered outside of the acceptance criteria for associated initial calibration. The associated sample results were UJ qualified as estimated non-detect.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%?	Yes.
Is continuing calibration for target compounds <30 %D?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Yes. Sample SG_1 was diluted to bring the concentration of target analytes within calibration range. Elevated reporting limits were provided for multiple analytes.
For TICs are there any system related compounds that should not be reported?	No TICs reported.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	No. 2-Hexanone, acetone, butane, and methyl ethyl ketone (2-butanone), n-heptane, n-hexane, and toluene exhibited poor precision between SG_1 and Dup_1. The sample detects were J qualified as estimated and non-detects were UJ qualified as estimated non-detect.

Summary of Findings

- 1,2,4-Trichlorobenzene and naphthalene was recovered outside of the acceptance criteria for associated initial calibration. Both sample results were UJ qualified as estimated non-detect.
- Sample SG_1 was diluted to bring the concentration of target analytes within calibration range. Elevated reporting limits were provided for multiple analytes.
- 2-hexanone, acetone, butane, and methyl ethyl ketone (2-butanone), n-heptane, n-hexane, and toluene poor precision between SG_1 and Dup_1. The sample detects were J qualified as estimated and non-detects were UJ qualified as estimated non-detect. Due to the parent sample and field duplicate precision off by orders of magnitude, a discussion with the lab about the analysis. No error was found on the lab's end.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 2B - List of Samples Qualified for Field Blank Contamination
None.

Table 3 - List of Samples with Surrogates outside Control Limits
None.

Table 3A – List of Samples with Isotope Dilution Recovery outside Control Limits
None.

Table 4A – List of MS/MSD Recoveries outside Control Limits
None.

Table 4B – List of MS/MSD RPD outside Control Limits
None.

Table 5 – List of LCS Recoveries outside Control Limits
None.

Table 5A – List of LCS RPD outside Control Limits
None.

Table 5B – List of IC/ICV/CCV recoveries outside Control Limits

Method	Lab Sample Name	Sample Type	Analyte	%RSD or %D	%RSD or %D Limit	Associated Samples	Qualifier
TO-15	200-191286	IC	1,2,4-Trichlorobenzene	38	30	DUP_1 SG_1	UJ Flag
TO-15	200-191286	IC	Naphthalene	38.3	30		

Table 6 –Samples that were Re-analyzed/Diluted

Sample ID	Lab ID	Method	Sample Type	Action
SG_1-20230515	460-280597-1	TO-15	N	11X: Diluted to bring the concentration of multiple analytes within calibration range.

Data Usability Summary Report	Project: West Sayville Dry Cleaners
Date Completed: May 25, 2023	Completed by: Nick Archer

Table 6 –Samples that were Re-analyzed/Diluted

Sample ID	Lab ID	Method	Sample Type	Action
SG_1-20230515	460-280597-1	TO-15	N	54X: Diluted to bring the concentration of acetone and 2-butanone within calibration range.

Table 7A – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	Analyte Type	SG_1-20230515	DUP_1-20230515	RPD	RPD Rating	Sample Qual
TO15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	GS	17	A	ND	0.46	NC	-	None - <2X PQL
TO15	1,2,4-Trimethylbenzene	ug/m3	GS	11	A	ND	0.48	NC	-	None - <2X PQL
TO15	1,3-Butadiene	ug/m3	GS	4.9	A	ND	0.091	NC	-	None - <2X PQL
TO15	2,2,4-Trimethylpentane	ug/m3	GS	10	A	ND	0.45	NC	-	None - <2X PQL
TO15	2-Hexanone	ug/m3	GS	23	A	240	1.1	198.2%	Poor	J Flag
TO15	Acetone	ug/m3	GS	640	A	1200	32	189.6%	Poor	J Flag
TO15	Benzene	ug/m3	GS	7.0	A	ND	0.47	NC	-	None - <2X PQL
TO15	Butane	ug/m3	GS	13	A	44	1.4	187.7%	Poor	J Flag
TO15	Carbon Tetrachloride	ug/m3	GS	14	A	ND	0.35	NC	-	None - <2X PQL
TO15	Chlorodifluoromethane	ug/m3	GS	19	A	ND	0.83	NC	-	None - <2X PQL
TO15	Chloromethane (Methyl Chloride)	ug/m3	GS	11	A	ND	0.95	NC	-	None - <2X PQL
TO15	Cyclohexane	ug/m3	GS	7.6	A	ND	0.32	NC	-	None - <2X PQL
TO15	Dichlorodifluoromethane	ug/m3	GS	27	A	ND	1.4	NC	-	None - <2X PQL
TO15	Ethylbenzene	ug/m3	GS	9.6	A	ND	0.41	NC	-	None - <2X PQL
TO15	m,p-Xylene	ug/m3	GS	24	A	ND	1.3	NC	-	None - <2X PQL
TO15	Methyl Ethyl Ketone (2-Butanone)	ug/m3	GS	80	A	4400	6.8	199.4%	Poor	J Flag
TO15	Methylene Chloride	ug/m3	GS	19	A	ND	1.5	NC	-	None - <2X PQL
TO15	N-Heptane	ug/m3	GS	9.0	A	17	0.70	184.2%	Poor	J Flag
TO15	N-Hexane	ug/m3	GS	19	A	12	0.89	172.4%	Poor	J Flag
TO15	O-Xylene (1,2-Dimethylbenzene)	ug/m3	GS	9.6	A	ND	0.45	NC	-	None - <2X PQL
TO15	Toluene	ug/m3	GS	8.3	A	13	1.9	149.0%	Poor	J Flag
TO15	Trichlorofluoromethane	ug/m3	GS	12	A	ND	1.0	NC	-	None - <2X PQL
TO15	Xylenes	ug/m3	GS	33	A	ND	1.8	NC	-	None - <2X PQL

Data Usability Summary Report	Project: West Sayville Dry Cleaners
Date Completed: May 25, 2023	Completed by: Nick Archer

Acronym List and Table Key:

AI	=	indoor ambient air
AQ	=	air quality control
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
GS	=	gas matrix
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
MS	=	matrix spike
MSD	=	matrix spike duplicate
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: West Sayville Dry Cleaners
Date Completed: May 05, 2023	Completed by: Nick Archer; Eridania Marte

pThe analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0030	460-277758-1	Eurofins Burlington

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
460-277758-1	AO	BAR - AA01	460-277758-7	04/04/2023 10:16		
460-277758-1	AI	BAR - IA01	460-277758-5	04/04/2023 13:27		
460-277758-1	AI	BAR - IA02	460-277758-6	04/04/2023 10:15		
460-277758-1	AS	BAR - SS01	460-277758-4	04/04/2023 13:29		
460-277758-1	AI	MFD - IA01	460-277758-2	04/04/2023 09:37		
460-277758-1	AI	MFD - IA02	460-277758-3	04/04/2023 13:42		
460-277758-1	AS	MFD - SS01	460-277758-1	04/04/2023 09:38		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
460-277758-1	AI	TO15	Volatile Organic Compounds by GC/MS	4	N
460-277758-1	AO	TO15	Volatile Organic Compounds by GC/MS	1	N
460-277758-1	AS	TO15	Volatile Organic Compounds by GC/MS	2	N

Data Usability Summary Report	Project: West Sayville Dry Cleaners
Date Completed: May 05, 2023	Completed by: Nick Archer; Eridania Marte

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs	No. No field QC was taken during this sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- IDA Recoveries Outside Limits (Table 3A)
- MS/MSD and RPD Outside Limits (Table 4)
- LCS/CCV/ICV Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)
- Laboratory Duplicate Results (Table 7)

Go to List

Data Usability Summary Report	Project: West Sayville Dry Cleaners
Date Completed: May 05, 2023	Completed by: Nick Archer; Eridania Marte

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit?	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%?	Yes.
Is continuing calibration for target compounds <30 %D?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Yes. Multiple samples were diluted to bring the concentration of target analytes within calibration range. There is no impact on data usability.
For TICs are there any system related compounds that should not be reported?	No TICs reported.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	A field duplicate was not collected.

Summary of Findings
• No data usability issues were noted.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 2B - List of Samples Qualified for Field Blank Contamination
None.

Table 3 - List of Samples with Surrogates outside Control Limits
None.

Table 3A – List of Samples with Isotope Dilution Recovery outside Control Limits
None.

Table 4A – List of MS/MSD Recoveries outside Control Limits
None.

Table 4B – List of MS/MSD RPD outside Control Limits
None.

Table 5 – List of LCS Recoveries outside Control Limits
None.

Table 5A – List of LCS RPD outside Control Limits
None.

Table 5B – List of ICV/CCV recoveries outside Control Limits
None.

Table 6 –Samples that were Re-analyzed/Diluted

Sample ID	Lab ID	Method	Sample Type	Action
BAR - IA01-20230404	460-277758-5	TO-15	N	2.99X: Diluted to bring the concentration of isopropanol within calibration range.
BAR - IA02-20230404	460-277758-6	TO-15	N	5X: Diluted to bring the concentration of isopropanol within calibration range.
MFD - IA01-20230404	460-277758-2	TO-15	N	4X: Diluted to bring the concentration of acetone within calibration range.

Table 6 –Samples that were Re-analyzed/Diluted

Sample ID	Lab ID	Method	Sample Type	Action
MFD - IA02-20230404	460-277758-3	TO-15	N	10X: Diluted to bring the concentration of acetone within calibration range.
MFD - SS01-20230404	460-277758-1	TO-15	N	4X: Diluted to bring the concentration of acetone within calibration range.

Table 7A – Summary of Field Duplicate Results

None.

Data Usability Summary Report	Project: West Sayville Dry Cleaners
Date Completed: May 05, 2023	Completed by: Nick Archer; Eridania Marte

Acronym List and Table Key:

AI	=	indoor ambient air
AQ	=	air quality control
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
MS	=	matrix spike
MSD	=	matrix spike duplicate
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

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Soil PID Assessment Report

Division of Environmental Remediation - Central Office

Field Log Report

Site Code #: 152200	**Date:** June 26, 2024

Site Name: West Sayville Dry Cleaners
Location: 61 West Main Street, West Sayville, NY 11796
DEC Project Manager: Steeven Imbaquingo

	AM	PM
Weather	X	Cloudy
Temperature	X	82°F
Wind Direction	X	SSE

Level of protection: Level D, nitrile gloves, and boots
Arrived onsite at 1:30PM
Concluded field investigation and departed at 3:15PM

Objective

Employees from the New York State Department of Environmental Conservation (NYSDEC), R. DeCandia and S. Imbaquingo, conducted a soil vapor assessment in the alleyway to identify potential sources of VOCs after recent results of the soil gas sample detected maximum concentration of methyl ethyl ketone (MEK) at 4400J ug/m^3 and acetone at 1200J ug/m^3.

A rectangular grid was designed to encompass the area of the elevated soil gas sample location and using a PID instrument to field screen for soil vapor near the surface. In addition, if PID measurements are observed at the surface, a hand auger will be used to screen for VOCs at deeper depths.

Background

The West Sayville Dry Cleaners site (the Site) is located in West Sayville, Town of Islip, Suffolk County. The site is currently vacant and is zoned for commercial use. The surrounding parcels are mix of both commercial and residential properties. The nearest residence shares a common

property border to the north. The previous uses of the site were a dry-cleaning operation that took place on-site approximately between 1983 and 2007, and more recently a cabinet making and refinishing shop.

The primary contaminants of concern present at site included tetrachloroethene (PCE) and its breakdown products from past drycleaning operations found in groundwater and soil. In the early 2000s, the contamination source was identified in the rear exterior portion of the Site's building and remediated via excavation. Endpoint soil samples were later collected by the Suffolk County Department of Health Services (SCDHS) and found levels of PCE exceeding unrestricted soil cleanup objectives (USCO). Two groundwater samples were collected outside behind the building within the excavation area and detected concentrations of PCE and trichloroethene (TCE) above ambient water quality standards (AWQS). A soil vapor extraction (SVE) system with two SVE wells were installed in 2005 at the site to remediate the remaining source of contamination.

January 2011 Comprehensive Remedial Investigation Report

A remedial investigation was performed by BEi, which included: soil, groundwater, soil gas, sub-slab, indoor air, and conducting an assessment on the SVE system. The following is a short summary of the results from this investigation:

- BEi evaluated the SVE system in 2005 and in 2010 and SCDHS performed additional evaluation on the SVE system in March 2010:
    - June 21, 2005, BEi collected SVE data and detected PCE at 396 ug/m^3 in SVE-1 and in SVE-2 levels of PCE exhibit a concentration of 18,462 ug/m^3.
    - Then SCDHS performed an evaluation on the SVE system on March 3, 2010, and found PCE at 222.8 ug/m^3 and TCE at 4.2 ug/m^3 in SVE-1 and in SVE-2 PCE was detected at 3,634 ug/m^3 and TCE at 392 ug/m^3. Methyl Ethyl Ketone (MEK) was not observed on both SVE wells during SCDHS evaluation.
    - March 25, 2010, BEi evaluated SVE-1 and detected levels of PCE at 814 ug/m^3 and TCE at 5.37 ug/m^3 and SVE-2 observed concentration of PCE at 637 ug/m^3 and TCE at 15.5 ug/m^3.
- There is no record of when the SVE system ended its operation and removed from the Site.
- Six soil samples and three groundwater samples were collected at the Site around the source area on September 2010, and exhibited concentration of volatile organic compounds (VOC) below USCO and AWQS.
- One soil gas sample was collected at one of the off-site property (Property 1) and detected PCE at 3.05 ug/m^3 and TCE at 4.28 ug/m^3.
- Samples of sub-slab vapor and indoor air were collected at properties near and adjacent to the Site. Results of the sub-slab vapor and indoor air were compared to NYSDOH's Soil Vapor/ Indoor Air Decision Matrices and suggests the following:

- Most of the indoor air samples and sub-slab vapor samples that were collected at the off-site properties indicated a no further action, based on the NYSDOH's Decision matrices.
- However, one off-site property suggests identifying sources and resample or mitigate due to PCE levels found in indoor air at 45 ug/m^3 and sub-slab vapor at 28.9 ug/m^3.
    - BEi identified that either the exhaust stack from the SVE or the dry-cleaning exhaust fan was affecting the indoor air quality and sample collected in this property. BEi considered extending the height of the dry-cleaning exhaust fan to reduce exposure of indoor from the Site.

November 2023 Remedial Investigation Report

Additional remedial investigation was performed on April 2023 by Ecology and Environment Engineering and Geology, P.C (E & E), which included: groundwater, sub-slab, indoor air, outdoor air, and soil gas. The following provides a concise summary of the findings from this investigation:

- Groundwater samples were collected at the newly installed wells located off-site and downgradient from the Site. As a result, each analyte test was below AWQS except for PFAS. Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) were reported at concentrations of up to 28.4 and 17.8 parts per trillion (ppt) exceeding AWQS of 6.7 and 2.7 ppt, respectively.
- Samples of sub-slab vapors and indoor air samples were collected at the Site and at a nearby property (Property 1). Results of the sub-slab vapor and indoor air were compared to NYSDOH's Soil Vapor/ Indoor Air Decision Matrices and suggests the following:
    - Ethylbenzene and o-xylene exceeded indoor air concentration above 10 ug/m^3 on the first floor of the Site; and sub-slab vapor concentrations were identified below 60 ug/m^3. The NYSDOH Soil Vapor Decision Matrices – Matrix D, suggests identifying sources, resample, or mitigate.
    - M- and p-xylenes exceeded indoor air concentration above 20 ug/m^3 on the first floor of the Site; and sub-slab vapor concentrations were detected below 200 ug/m^3, which suggests identifying resources, resample, or mitigate based on the NYSDOH Soil Vapor Decision Matrices – Matrix E.
    - Property 1, suggests a no further action.
- One outdoor air sample was collected at Property 1, and results did not exhibit concentration of PCE and its degradation products.
- One soil gas sample was collected off-site to the west of the Site, at depth of 10 feet below ground surface (ft. bgs.) and detected 2-hexanone at 240 J ug/m^3, acetone at 1,200 J ug/m^3, butane at 44 J ug/m^3, MEK at 4,400 J ug/m^3, n-heptane at 17 J ug/m^3, n-hexane at 12 J ug/m^3, and toluene 13 J ug/m^3.

Off-Site Inspection in the Alleyway

On June 26, 2024, at 1:30PM, NYSDEC employees R. DeCandia and S. Imbaquingo began inspecting the alleyway from its entrance on the western end at Cherry Avenue to the eastern side of the Site's building side door.

The alleyway consists of a 0.05-acre plot that borders the Site's side door to the east; the strip-stores to the south; Cherry Avenue to the west; and residence property to the north, please see Figure 1.

The western entrance of the alleyway provides access to individual entrances to its respective businesses including Property 1

The most eastern portion of the alley entrance contained a solid waste recycling dumpster and a separate garbage dumpster behind it. Further away from its entrance contained dried vegetation, broken wooden pallets, sand, and scattered garbage scraps. See photos of these areas below.

Soil Assessment Results Based on PID Measurements

A rectangular grid was set up, surrounding the SG-1 sampling location as shown in Figure 1, using a measuring tape. The length of the grid measured approximately 8 ft. and the width was 4 ft. A metal rod was hammered vertically at each grid point to a depth of 14-16 inches. As rod was removed, the remaining hole was then screened with a PID. Each grid point/ screening location were spaced out evenly.

Three locations observed PID readings and additional screening locations were advanced adjacent to the elevated reading. Subsequently, a hand-auger was used to screen samples at deeper intervals at that same location where the elevated near-surface PID reading was obtained. The following results are shown below:

- First location, SB-1, detected 2.0 ppm near the surface, and following depth interval field screened at 2 ft. bgs and no detections were observed. Additional field screening was performed at 3 ft. bgs and 4 ft. bgs and no measurements were observed.
- The second location, SB-2 as depicted in figure 2, at the surface detected 3.3 ppm, but no readings were detected at 2 ft bgs.
- The third location, SB-3, the PID observed a reading of 0.2 ppm at 0-1ft bgs. An additional screening location was advanced adjacent to SB-3 and no readings were observed on the PID.

To determine possible background readings, such as debris found in the alleyway or surface soil conditions, a similar near-surface soil vapor test was performed within the alleyway at a location near the assessment rectangular area, see Figure 1. A grass area near the white fence along the

northern side of the alleyway, show multiple measurements at different locations with a maximum PID reading of 14.9 ppm at topsoil.

Discussion

A remedial investigation was performed by E & E in April 2023, where a soil gas sample was collected at the alleyway and revealed a discrepancy between the normal soil gas data and the duplicate soil gas data. Subsequently, on June 26, 2024, the NYSDEC employees evaluated the alleyway and only three locations observed PID readings at the surface within the rectangular assessment area. After screening at deeper intervals in the same three locations, the PID did not report any readings. These observations found at the surface are subject to the conditions of the alleyway, such as providing rear access to each individual businesses and used as a delivery loading zone, potentially obtaining PID readings near the surface soil.

Reviewing Soil Gas Data with Adjacent Sub-Slab Vapor Data

The NYSDOH Soil Vapor Intrusion (SVI) Guidance states that soil vapor results are reviewed "as a whole" including other environmental sample results; therefore, when comparing only the duplicate gas data with adjacent recent sub-slab vapor data, both relatively exhibit consistent levels of VOCs, as shown in Table 5-2 and Table 5-3 from November 2023 Remedial Investigation Report. However, when evaluating the normal gas data along with the sub-slab vapor data, both data are inconsistent with each other. Therefore, to identify potential exposures of VOCs and to characterize the nature and extent of subsurface vapor contamination related to the Site, the duplicate gas data should be considered and to be evaluated along with the sub-slab vapor data.

Alternatively, based on the NYSDOH SVI guidance, since the normal gas and a duplicate data are not following a consistent pattern, then the recent sub-slab vapor results should be used to assess potential exposures of VOCs and determine the nature and extent of subsurface vapor contamination.

Conclusion

A source of contamination was found outside behind the building of the Site and was excavated as part of the remediation. Additionally, to reduce any remaining source of contamination, a SVE system with SVE wells were installed and operated for approximately 5 years. The Comprehensive Remedial Investigation Draft for West Sayville Dry Cleaners, January 2011, collected groundwater and soil data around the excavation area of the site and exhibited levels below AWQS and USCO.

A recent normal and duplicate soil gas sample was collected at the alleyway by E & E and showed a discrepancy between both data. Subsequently, NYSDEC employees performed an off-site investigation at the alleyway to screen for soil vapor by using a PID, and as a result, no elevated measurements were observed that would indicate a source in this area. Therefore, since the normal

gas and duplicate gas data are inconsistent with each other, then the recommended action is to solely employ the NYSDOH's SVI guidance to use recent sub-slab results to evaluate the investigation.

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October 2025 Soil Assessment Report

October 2025 Soil Assessment Report

West Sayville Dry Cleaners

NYSDEC Site No.: 152200

West Sayville, Suffolk County, NY

Prepared by the New York State Department of Environmental Conservation

NEW YORK STATE | Department of Environmental Conservation

Objective

Evaluate the on-site soil conditions at the rear exterior (northwest side) of the West Sayville Dry Cleaner (the Site) site. Obtain soil data in order to identify potential exposures of contamination, if any, found at the site and to evaluate if a cover system is needed for the Site.

Site background

The site located at 61 West Main St in West Sayville, Suffolk County is 0.1-acres consisting of a single-story masonry building with a partial basement, which includes a crawlspace area to the north. The site area of the rear exterior measures approximately 20 feet by 5 feet and is a mix of backfilled sand and silt that is vegetated. A pedestrian sidewalk is present along the front (southeast) boundary of the Site. The site is currently being used as an event venue and zoned for commercial use. Groundwater is present at approximately 10 feet below ground surface (bgs.) and generally flows southeast. The site is shown in Figure 1.

Previously the site was used as a dry-cleaning operation, which took place on-site between approximately 1983 to 2007. Tetrachloroethene (PCE), a common dry-cleaning chemical, and its breakdown products were identified in groundwater and soil located in the rear portion of the site exceeding standards. The Suffolk County Department of Health Services (SCHDS) determined the source of contamination and directed the owner to remove the contamination via excavation. Subsequently, a soil vapor extraction (SVE) system was installed in 2005 and operated under the oversight of the SCDHS between 2005-2010. The last operating record of the SVE system was March 2010. The termination and the removal date of the system are unknown.

Previous Investigations

> *Comprehensive Remedial Investigation Draft Report, Berninger Environmental Inc. (BEi), January 2011*

Six soil samples and three groundwater samples were collected on-site in September 2010. Neither soil nor groundwater exhibited exceedances of unrestricted soil cleanup objectives (USCOs) and ambient water quality standards (AWQS) for volatile organic compounds (VOCs), respectively.

Samples of sub-slab vapor and indoor air were collected at properties near and adjacent to the site. Results of the sub-slab vapor and indoor air were compared to NYSDOH's Soil Vapor/ Indoor Air Decision Matrices (NYSDOH SVI matrices). Indoor air levels of PCE were detected in the vicinity of the site suggesting "identify sources and resample or mitigate" in accordance with the NYSDOH SVI matrices. According to BEi, the exhaust fan from the SVE stack was influencing indoor air quality and recommended that the appropriate mitigation effort was to

extend the height of the stack to reduce the impacts to indoor air at the adjacent and nearby off-site properties.

The performance of the SVE system was evaluated in March 2010, and based on BEi, the initial sampling collected in 2005 compared to the data collected in March 2010 indicated that the system is effectively remediating VOC vapors.

> *Remedial Investigation Report, Ecology and Environment Engineering and Geology, P.C. (E&E), November 2023*

Groundwater samples were collected and analyzed for full suite at the newly installed wells located off-site and downgradient from the Site. Results indicate all analytes analyzed for were non-detect or below AWQS except for per- and polyfluroalkyl Substances (PFAS). Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) were reported at concentrations of up to 28.4 and 17.8 parts per trillion (ppt) exceeding AWQS of 6.7 and 2.7 ppt, respectively.

Sub-slab vapors and indoor air samples were collected at the site and at nearby off-site properties. Based on the NYSDOH SVI matrices, chlorinated VOCs indicated “no further action”. Ethylbenzene, o-xylene, m- and p-xylenes triggered a response action to “identify sources and resample or mitigate”, due to exceedances found in indoor air samples on the first floor of the site. According to E&E, at the time of sampling the building was using wood stain products and topcoat, industrial resin, paint primer, and window cleaning supplies indicating a possible indoor air source. Therefore, these detected compounds are not considered site-related contaminants.

A soil gas sample was collected in the vicinity of the site and detected acetone and methyl ethyl ketone with a concentration of 1,200 microgram per meter cubed ($\mu g/m^3$) and 4400 $\mu g/m^3$, respectively. However, these compounds are not site related.

Site Inspection

The current building of the site is being used by a new commercial business at the time of inspection and sampling, which was conducted on October 14 and 15, 2025. The main interior of the building is being used as an open space area for special events, and the rear portion of the building is being used as a kitchenette and storage area. Also, within this rear area, there is a door that leads to a small yard that measures approximately 20 feet by 5 feet.

The yard is adjacent to residential properties to the west and north, and a commercial property to the east. The conditions of the soil consisted mostly of fill sand with varying amounts of silt and small amounts of fine gravel, as shown in the boring logs in Appendix A. A small clay layer

was identified in SB-2 at depth of 2.5-3 feet bgs. and 3-3.5 feet bgs. No PID readings were observed during soil sampling.

Soil Sampling

Seven surface soil samples were collected from SS1-A to SS7-A at a depth of 0-6 inches bgs. using a hand-auger method and analyzed for:

- VOCs United States Environmental Protection Agency (USEPA) Method 8260
- Semi-volatile Organic Compounds (SVOCs) USEPA Method 8270
- Metals including mercury USEPA Method 6010 & 7470
- Total Cyanide USEPA Method 9010
- Pesticides USEPA Method 8081
- Polychlorinated Biphenyls (PCBs) USEPA Method 8082
- PFAS USEPA Method 1633
- 1,4-Dioxane USEPA Method 8270 SIM

Additional surface soil samples were collected for VOCs analysis at a depth of 6-12 inches bgs. at locations from SS1-B to SS7-B

Subsurface samples were collected at a depth of 4.5 feet bgs. at locations SB1-C and SB3-C and one subsurface sample was collected at depth of 5 feet bgs. at location SB2-C using a hand-auger and analyzed for VOCs.

Results

Soil sample results are being compared to 6 NYCRR Part 375 Unrestricted Use, Commercial Use, and Protection of Groundwater Soil Cleanup Objectives (SCOs). All results are summarized in Table-1.

VOCs

Acetone was detected above both the protection of groundwater SCO and unrestricted SCO of 0.030 milligram per kilogram (mg/kg), but below the commercial SCO of 500 mg/kg at the locations presented in Figure 2 and listed below:

- Duplicate sample SS1-A (0-6 inches bgs.): 0.031 J mg/kg
- SB2-C (5 feet bgs.): 0.062 mg/kg J
- Duplicate sample SB2-C: 0.056 J mg/kg.

SVOCs

SVOCs did not exceed any soil samples at concentrations greater than the corresponding Unrestricted Use, Commercial Use, and Protection of Groundwater SCOs, as shown in Figure 3.

Pesticides

Two pesticides were detected above applicable SCOs including cis-chlordane and 4,4'-DDT. The unrestricted SCO for cis-chlordane is 0.014 mg/kg, which exceeded at certain sample locations as seen in Figure 4, but was detected below the protection of groundwater SCO 4.5 mg/kg and the commercial SCO of 8.2 mg/kg. The samples that exceeded cis-chlordane unrestricted SCOs are detailed below:

- Duplicate sample of SS1-A: 0.036 mg/kg
- SS3-A (0-6 inches bgs.): 0.026 J mg/kg
- SS4-A (0-6 inches bgs.): 0.070 J mg/kg
- SS5-A (0-6 inches bgs.): 0.028 J mg/kg
- SS6-A (0-6 inches bgs.): 0.031 J- mg/kg.

Additionally, 4,4'-DDT was detected above the unrestricted SCO value of 0.0033 mg/kg, but below the protection of groundwater SCO value of 135 mg/kg and commercial SCO value of 27 mg/kg at following samples:

- SS1-A (0-6 inches bgs): 0.0092 J mg/kg
- Duplicate sample SS1-A: 0.0077 J mg/kg
- SS3-A (0-6 inches bgs.): 0.0058 mg/kg
- SS4-A (0-6 inches bgs.): 0.013 J mg/kg
- SS5-A (0-6 inches bgs.): 0.0047 J mg/kg
- SS6-A (0-6 inches bgs.): 0.0065 J- mg/kg
- SS7-A (0-6 inches bgs.): 0.0038 J mg/kg

PCBs

PCBs did not exceed any soil samples at concentrations greater than the corresponding Unrestricted Use, Commercial Use, and Protection of Groundwater SCOs, as presented in Figure 5.

Metals

One duplicate sample, SS1-A, detected copper at 65.3 mg/kg exceeding the unrestricted SCO value of 50 mg/kg, but was detected below the protection of groundwater SCO value of 1720 mg/kg and commercial SCO value of 280 mg/kg.

Lead was detected above the unrestricted SCO (63 mg/kg), but was found below the protection of groundwater SCO of 450 mg/kg and commercial SCO of 1000 mg/kg, as detailed below:

- SS1-A (0-6 inches bgs.): 110 mg/kg
- Duplicate sample SS1-A: 109 mg/kg,

- SS5-A (0-6 inches bgs.): 94.7 mg/kg
- SS7-A (0-6 inches bgs.): 80.4 mg/kg

Zinc was detected at SS1-A at 124 mg/kg exceeding the unrestricted SCO of 109 mg/kg, but below the protection of water SCO of 2480 mg/kg and the commercial SCO of 10,000 mg/kg.

Cyanide

Cyanide did not exceed any soil samples at concentrations greater than the corresponding Unrestricted Use, Commercial Use, and Protection of Groundwater SCOs, as depicted in Figure 7.

PFAS and 1,4-Dioxane

PFAS compounds such as PFOS were detected above the unrestricted SCO guidance value of 0.88 micrograms per kilogram (ug/kg) and protection of groundwater SCO guidance value (1 ug/kg). No exceedances were observed of the commercial SCO guidance value (440 ug/kg). The results are detailed below:

- SS1-A (0-6 inches bgs.): 17.8 ug/kg
- Duplicate sample SS1-A: 17.5 ug/kg
- SS4-A (0-6 inches bgs.): 1.74 ug/kg
- SS5-A (0-6 inches bgs.): 2.14 ug/kg
- SS7-A (0-6 inches bgs.): 5.79 ug/kg

In addition, certain samples detected PFOA above the unrestricted SCO guidance value of 0.66 ug/kg and protection of groundwater SCO guidance value of 0.8 ug/kg, as shown in Figure 8. However, no exceedances were detected of the commercial SCO guidance value (500 ug/kg). The samples that had exceedances are listed below:

- SS1-A (0-6 inches bgs): 15.1 ug/kg
- Duplicate sample SS1-A: 13.9 ug/kg
- SS2-A (0-6 inches bgs): 2.80 ug/kg

1,4-dioxane did not exceed any soil samples at concentrations greater than the corresponding Unrestricted Use, Commercial Use, and Protection of Groundwater SCOs, as presented in Figure 8.

Conclusion

Soil samples were collected at the rear exterior of the site to analyze for VOCs, SVOCs, metals, total cyanide, pesticides, PCBs, PFAS, and 1,4-dioxane.

Acetone exceeded both the unrestricted and protection of groundwater SCOs in surface (0-6 inches bgs.) and sub-surface (5 feet bgs.) soil samples but were below the commercial SCO. Based on the concentration detected, the data does not indicate a potential source of VOC contamination. Acetone is not used in dry-cleaning operations and is commonly associated with laboratory background; therefore, detection of acetone is not considered site related.

A duplicate surface soil sample exhibited copper concentration above unrestricted SCO, but copper is a natural occurring metal and was detected below both protection of groundwater and commercial SCOs. Additional metals, including chromium, lead, and zinc were detected below their respective commercial SCOs indicating that metals in site soils meet the commercial use standards.

Pesticides and PFAS were detected at concentrations below their applicable commercial SCOs and guidance values.

Based on the analytical results, surface and subsurface soil results are below their applicable commercial SCOs for all analytes sampled. The site is currently used and zoned for commercial use standards. Therefore, a cover system may not be warranted under current site conditions. The data collected during this study will be used to develop the potential remedy for the site as will be proposed in the Proposed Remedial Action Plan.

Table

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS1-A Sample Name: 20251014-SS1-A Depth: 0 - 6 in Date: 10/14/25	SS1-A DUP-20251014 0 - 6 in 10/14/25	SS1-B 20251014-SS1-B 6 - 12 in 10/14/25	SB1-C 20251015-SB1-C 4.5 ft 10/15/25	SS2-A 20251014-SS2-A 0 - 6 in 10/14/25
1,1,1-Trichloroethane (TCA)	*0.68*	*500*	*0.68*		0.0006 U	0.00059 U	0.00054 U	0.00028 U	0.00053 U
1,1,2,2-Tetrachloroethane	*NS*	*NS*	*NS*		0.00078 U	0.00075 U	0.0007 U	0.00036 U	0.00068 U
1,1,2-Trichloro-1,2,2-trifluoroethane	*NS*	*NS*	*NS*		0.00099 U	0.00096 U	0.00089 U	0.00046 U	0.00087 U
1,1,2-Trichloroethane	*NS*	*NS*	*NS*		0.00046 U	0.00045 U	0.00042 U	0.00022 U	0.00041 U
1,1-Dichloroethane	*0.27*	*240*	*0.27*		0.00053 U	0.00051 U	0.00048 U	0.00025 U	0.00047 U
1,1-Dichloroethene	*0.24*	*5.1*	*0.33*		0.00081 U	0.00079 U	0.00073 U	0.00038 U	0.00072 U
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*		0.00068 U	0.00066 U	0.00061 U	0.00032 U	0.0006 U
1,2,3-Trichloropropane	*NS*	*NS*	*NS*		0.00078 U	0.00076 U	0.0007 U	0.00036 U	0.00069 U
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*		0.00057 U	0.00055 U	0.00051 U	0.00026 U	0.0005 U
1,2,4-Trimethylbenzene	*5.9*	*500*	*5.9*		0.00073 U	0.00071 U	0.00065 U	0.00034 U	0.00064 U
1,2-Dibromo-3-chloropropane	*NS*	*NS*	*NS*		0.00072 U	0.0007 U	0.00065 U	0.00033 U	0.00063 U
1,2-Dibromoethane (Ethylene Dibromide)	*NS*	*NS*	*NS*		0.00061 U	0.0006 U	0.00055 U	0.00029 U	0.00054 U
1,2-Dichlorobenzene	*1.1*	*500*	*1.1*		0.00053 U	0.00052 U	0.00048 U	0.00025 U	0.00047 U
1,2-Dichloroethane	*0.02*	*30*	*0.02*		0.0006 U	0.00059 U	0.00054 U	0.00028 U	0.00053 U
1,2-Dichloropropane	*NS*	*NS*	*NS*		0.00055 U	0.00054 U	0.0005 U	0.00026 U	0.00049 U
1,3,5-Trimethylbenzene (Mesitylene)	*3.1*	*500*	*3.1*		0.00063 U	0.00061 U	0.00056 U	0.00029 U	0.00055 U
1,3-Dichlorobenzene	*2.6*	*280*	*2.6*		0.00051 U	0.0005 U	0.00046 U	0.00024 U	0.00045 U
1,4-Dichlorobenzene	*1.8*	*130*	*1.8*		0.00052 U	0.0005 U	0.00047 U	0.00024 U	0.00046 U
2-Hexanone	*NS*	*NS*	*NS*		0.0067 U	0.0065 U	0.0061 U	0.0031 U	0.0059 U
2-Methoxy-2-methylbutane	*NS*	*NS*	*NS*		0.0008 U	0.00077 U	0.00072 U	0.00037 U	0.0007 U
2-Methyl-2-butanol	*NS*	*NS*	*NS*		0.0037 UJ	0.0036 U	0.0033 UJ	0.0017 U	0.0032 UJ
Acetone	*0.03*	*500*	*0.03*		**0.028 J**	**0.031 J**	0.01 UJ	**0.016 J**	**0.016 J**
Benzene	*0.06*	*20*	*0.06*		0.00061 U	0.0006 U	0.00055 U	0.00029 U	0.00054 U
Bromochloromethane	*NS*	*NS*	*NS*		0.00085 U	0.00082 U	0.00076 U	0.0004 U	0.00075 U
Bromodichloromethane	*NS*	*NS*	*NS*		0.00058 U	0.00057 U	0.00053 U	0.00027 U	0.00051 U
Bromoform	*NS*	*NS*	*NS*		0.00099 U	0.00096 U	0.00089 U	0.00046 U	0.00087 U
Bromomethane	*NS*	*NS*	*NS*		0.0013 U	0.0013 U	0.0012 U	0.00062 U	0.0012 U
Carbon Disulfide	*NS*	*NS*	*NS*		0.01 U	0.01 U	0.0094 U	0.0049 U	0.0093 U
Carbon Tetrachloride	*0.76*	*41*	*0.76*		0.00069 U	0.00067 U	0.00062 U	0.00032 U	0.00061 U
Chlorobenzene	*4.5*	*500*	*4.5*		0.00059 U	0.00057 U	0.00053 U	0.00027 U	0.00052 U
Chloroethane	*NS*	*NS*	*NS*		0.0012 U	0.0012 U	0.0011 U	0.00057 U	0.0011 U
Chloroform	*0.37*	*180*	*0.37*		0.00057 U	0.00055 U	0.00051 U	0.00026 U	0.0005 U
Chloromethane (Methyl Chloride)	*NS*	*NS*	*NS*		0.0012 U	0.0011 U	0.001 U	0.00054 U	0.001 U
cis-1,2-Dichloroethene	*0.19*	*500*	*0.19*		0.0006 U	0.00059 U	0.00054 U	0.00028 U	0.00053 U
cis-1,3-Dichloropropene	*NS*	*NS*	*NS*		0.00075 U	0.00072 U	0.00067 U	0.00035 U	0.00066 U
Cyclohexane	*NS*	*NS*	*NS*		0.0035 U	0.0034 U	0.0032 U	0.0016 U	0.0031 U
Cymene (4-Isopropyltoluene)	*NS*	*NS*	*NS*		0.00053 UJ	0.00051 UJ	0.00048 UJ	0.00025 UJ	0.00047 UJ
Dibromochloromethane	*NS*	*NS*	*NS*		0.00078 U	0.00076 U	0.0007 U	0.00036 U	0.00069 U
Dichlorodifluoromethane	*NS*	*NS*	*NS*		0.00097 U	0.00094 U	0.00088 U	0.00045 U	0.00086 U

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS1-A Sample Name: 20251014-SS1-A Depth: 0 - 6 in Date: 10/14/25	SS1-A DUP-20251014 0 - 6 in 10/14/25	SS1-B 20251014-SS1-B 6 - 12 in 10/14/25	SB1-C 20251015-SB1-C 4.5 ft 10/15/25	SS2-A 20251014-SS2-A 0 - 6 in 10/14/25
Ethanol	*NS*	*NS*	*NS*		0.035 UJ	0.034 UJ	0.031 UJ	0.016 UJ	0.03 UJ
Ethyl tert-Amyl Ether	*NS*	*NS*	*NS*		0.00056 U	0.00055 U	0.00051 U	0.00026 U	0.0005 U
Ethyl tert-Butyl Ether	*NS*	*NS*	*NS*		0.00067 U	0.00065 U	0.00061 U	0.00031 U	0.00059 U
Ethylbenzene	*1*	*390*	*1*		0.00047 U	0.00046 U	0.00042 U	0.00022 U	0.00042 U
Isopropyl Ether	*NS*	*NS*	*NS*		0.00079 U	0.00077 U	0.00071 U	0.00037 U	0.0007 U
Isopropylbenzene (Cumene)	*NS*	*NS*	*NS*		0.00055 U	0.00054 U	0.0005 U	0.00026 U	0.00049 U
m,p-Xylene	*0.26*	*NS*	*NS*		0.00092 U	0.00089 U	0.00083 U	0.00043 U	0.00081 U
Methyl Acetate	*NS*	*NS*	*NS*		0.0011 UJ	**0.0019 J**	0.001 UJ	0.00053 UJ	**0.013 J**
Methyl Ethyl Ketone (2-Butanone)	*0.1*	*500*	*0.1*		0.0075 U	0.0072 U	0.0067 U	0.0035 U	0.0066 U
Methyl Isobutyl Ketone (4-Methyl-2-pentanone)	*NS*	*NS*	*NS*		0.0083 U	0.0081 U	0.0075 U	0.0039 U	0.0074 U
Methylcyclohexane	*NS*	*NS*	*NS*		0.0006 U	0.00058 U	0.00054 U	0.00028 U	0.00053 U
Methylene Chloride	*0.05*	*500*	*0.05*		0.00061 U	0.00059 U	0.00055 U	0.00028 U	0.00054 U
Naphthalene	*12*	*500*	*12*		0.00087 UJ	0.00085 U	0.00078 UJ	0.00041 U	0.00077 UJ
n-Butylbenzene	*18*	*500*	*18*		0.00058 U	0.00057 U	0.00053 U	0.00027 U	0.00052 U
n-Propylbenzene	*5*	*500*	*5*		0.00057 U	0.00055 U	0.00051 U	0.00026 U	0.0005 U
o-Xylene	*0.26*	*NS*	*NS*		0.00051 U	0.0005 U	0.00046 U	0.00024 U	0.00045 U
sec-Butylbenzene	*25*	*500*	*25*		0.00063 UJ	0.00062 UJ	0.00057 UJ	0.0003 UJ	0.00056 UJ
Styrene	*NS*	*NS*	*NS*		0.00055 U	0.00053 U	0.00049 U	0.00025 U	0.00048 U
T-Butylbenzene	*11*	*500*	*11*		0.00057 U	0.00056 U	0.00052 U	0.00027 U	0.00051 U
tert-Butyl Alcohol	*NS*	*NS*	*NS*		**0.042 J**	0.03 U	0.028 U	0.015 U	0.028 U
tert-Butyl Methyl Ether	*0.1*	*500*	*0.1*		0.00068 U	0.00066 U	0.00062 U	0.00032 U	0.0006 U
Tetrachloroethene (PCE)	*1.3*	*81*	*1.3*		**0.0018**	**0.0014 J**	0.00064 U	**0.0060**	**0.0028**
Toluene	*0.7*	*500*	*0.7*		0.00047 U	0.00046 U	0.00043 U	0.00022 U	0.00042 U
trans-1,2-Dichloroethene	*0.19*	*500*	*0.19*		0.00054 U	0.00053 U	0.00049 U	0.00025 U	0.00048 U
trans-1,3-Dichloropropene	*NS*	*NS*	*NS*		0.00069 U	0.00067 U	0.00062 U	0.00032 U	0.00061 U
Trichloroethene (TCE)	*0.47*	*54*	*0.47*		0.00056 U	0.00054 U	0.0005 U	**0.00055 J**	0.00049 U
Trichlorofluoromethane	*NS*	*NS*	*NS*		0.0012 U	0.0011 U	0.001 U	0.00054 U	0.001 U
Vinyl Chloride	*0.03*	*7.1*	*0.03*		0.0007 U	0.00068 UJ	0.00063 U	0.00033 UJ	0.00062 U
Xylenes	*0.26*	*500*	*1.2*		0.0017 U	0.0017 U	0.0016 U	0.00081 U	0.0015 U
Semivolatile Organic Compounds by Method 8270E (mg/kg)									
1,2,4,5-Tetrachlorobenzene	*NS*	*NS*	*NS*		0.041 U	0.04 U	--	--	0.033 U
1-Methylnaphthalene	*NS*	*NS*	*NS*		0.0053 U	0.0052 U	--	--	0.0043 U
2,3,4,6-Tetrachlorophenol	*NS*	*NS*	*NS*		0.06 U	0.059 U	--	--	0.049 U
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*		0.043 U	0.043 U	--	--	0.035 U
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*		0.037 U	0.037 U	--	--	0.03 U
2,4-Dichlorophenol	*NS*	*NS*	*NS*		0.04 U	0.039 U	--	--	0.032 U
2,4-Dimethylphenol	*NS*	*NS*	*NS*		0.088 U	0.087 U	--	--	0.072 U
2,4-Dinitrophenol	*NS*	*NS*	*NS*		0.4 U	0.39 U	--	--	0.32 U
2,4-Dinitrotoluene	*NS*	*NS*	*NS*		0.1 UJ	0.099 UJ	--	--	0.082 UJ

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS1-A Sample Name: 20251014-SS1-A Depth: 0 - 6 in Date: 10/14/25	SS1-A DUP-20251014 0 - 6 in 10/14/25	SS1-B 20251014-SS1-B 6 - 12 in 10/14/25	SB1-C 20251015-SB1-C 4.5 ft 10/15/25	SS2-A 20251014-SS2-A 0 - 6 in 10/14/25
2,6-Dinitrotoluene	*NS*	*NS*	*NS*		0.053 U	0.053 U	--	–	0.043 U
2-Chloronaphthalene	*NS*	*NS*	*NS*		0.037 U	0.037 U	--	–	0.03 U
2-Chlorophenol	*NS*	*NS*	*NS*		0.037 U	0.037 U	--	–	0.03 U
2-Methylnaphthalene	*NS*	*NS*	*NS*		0.0048 U	0.0047 U	--	–	0.0039 U
2-Methylphenol (o-Cresol)	*NS*	*NS*	*NS*		0.053 U	0.053 U	--	–	0.044 U
2-Nitroaniline	*NS*	*NS*	*NS*		0.065 U	0.064 U	--	–	0.053 U
2-Nitrophenol	*NS*	*NS*	*NS*		0.044 U	0.043 U	--	–	0.036 U
3- And 4- Methylphenol (Total)	*NS*	*NS*	*NS*		0.069 U	0.069 U	--	–	0.057 U
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*		0.076 U	0.075 U	--	–	0.062 U
3-Nitroaniline	*NS*	*NS*	*NS*		0.055 U	0.055 U	--	–	0.045 U
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*		0.35 U	0.34 U	--	–	0.28 U
4-Bromophenyl Phenyl Ether	*NS*	*NS*	*NS*		0.037 U	0.037 U	--	–	0.031 U
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*		0.045 U	0.044 U	--	–	0.036 U
4-Chloroaniline	*NS*	*NS*	*NS*		0.068 UJ	0.067 UJ	--	–	0.056 UJ
4-Chlorophenyl Phenyl Ether	*NS*	*NS*	*NS*		0.039 U	0.039 U	--	–	0.032 U
4-Nitroaniline	*NS*	*NS*	*NS*		0.06 U	0.059 U	--	–	0.049 U
4-Nitrophenol	*NS*	*NS*	*NS*		0.17 UJ	0.16 UJ	--	–	0.14 UJ
Acenaphthene	*20*	*500*	*98*		0.0046 U	0.0046 U	--	–	0.0038 U
Acenaphthylene	*100*	*500*	*365*		0.0053 U	0.0052 U	--	–	0.0043 U
Acetophenone	*NS*	*NS*	*NS*		0.045 U	0.044 U	--	–	0.036 U
Aniline	*0.04*	*36*	*0.04*		0.08 U	0.079 U	--	–	0.065 U
Anthracene	*100*	*500*	*1000*		0.0048 U	0.0047 U	--	–	0.0039 U
Atrazine	*NS*	*NS*	*NS*		0.058 U	0.057 U	--	–	0.047 U
Benzaldehyde	*NS*	*NS*	*NS*		**0.060 J**	**0.089 J**	--	–	0.048 UJ
Benzo(a)anthracene	*1*	*37*	*1*		**0.062**	**0.051**	--	–	**0.022 J**
Benzo(a)pyrene	*1*	*3.7*	*22*		**0.092**	**0.075**	--	–	**0.027 J**
Benzo(b)fluoranthene	*1*	*37*	*2.1*		**0.23**	**0.15**	--	–	**0.051**
Benzo(g,h,i)perylene	*0.64*	*47*	*1000*		**0.20**	**0.11**	--	–	**0.031 J**
Benzo(k)fluoranthene	*0.8*	*47*	*2*		**0.074**	**0.049**	--	–	**0.018 J**
Benzyl Butyl Phthalate	*NS*	*NS*	*NS*		**0.075 J**	**0.14 J**	--	–	0.039 U
Biphenyl (Diphenyl or 1,1'-Biphenyl)	*NS*	*NS*	*NS*		0.048 U	0.047 U	--	–	0.039 U
Bis(2-chloroethoxy) Methane	*NS*	*NS*	*NS*		0.043 U	0.043 U	--	–	0.035 U
Bis(2-chloroethyl) Ether (2-Chloroethyl Ether)	*NS*	*NS*	*NS*		0.056 U	0.056 U	--	–	0.046 U
Bis(2-chloroisopropyl) Ether	*NS*	*NS*	*NS*		0.17 U	0.17 U	--	–	0.14 U
Bis(2-ethylhexyl) Phthalate	*NS*	*NS*	*NS*		**0.11 J**	**0.27 J**	--	–	**0.088 J**
Caprolactam	*NS*	*NS*	*NS*		0.073 U	0.073 U	--	–	0.06 U
Carbazole	*NS*	*NS*	*NS*		0.044 U	0.043 U	--	–	0.036 U
Chrysene	*1*	*47*	*1*		**0.095**	**0.095**	--	–	**0.025 J**
Dibenz(a,h)anthracene	*0.33*	*3.7*	*1000*		**0.030 J**	**0.022 J**	--	–	0.015 U

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS1-A Sample Name: 20251014-SS1-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS1-A Sample Name: DUP-20251014 Depth: 0 - 6 in Date: 10/14/25	Location ID: SS1-B Sample Name: 20251014-SS1-B Depth: 6 - 12 in Date: 10/14/25	Location ID: SB1-C Sample Name: 20251015-SB1-C Depth: 4.5 ft Date: 10/15/25	Location ID: SS2-A Sample Name: 20251014-SS2-A Depth: 0 - 6 in Date: 10/14/25
Dibenzofuran	*2.1*	*180*	*110*		0.042 U	0.041 U	--	--	0.034 U
Diethyl Phthalate	*NS*	*NS*	*NS*		0.041 U	0.041 U	--	--	0.034 U
Dimethyl Phthalate	*NS*	*NS*	*NS*		0.038 U	0.037 U	--	--	0.031 U
Di-N-Butyl Phthalate	*NS*	*NS*	*NS*		0.16 U	0.16 U	--	--	0.13 U
Di-N-Octylphthalate	*NS*	*NS*	*NS*		0.062 U	0.062 U	--	--	0.051 U
Fluoranthene	*85*	*500*	*1000*		**0.12**	**0.18**	--	--	**0.051**
Fluorene	*30*	*500*	*386*		0.005 U	0.0049 U	--	--	0.0041 U
Hexachlorobenzene	*0.33*	*1.8*	*3.2*		0.043 U	0.042 U	--	--	0.035 U
Hexachlorobutadiene	*NS*	*NS*	*NS*		0.044 U	0.043 U	--	--	0.036 U
Hexachlorocyclopentadiene	*NS*	*NS*	*NS*		0.21 UJ	0.21 UJ	--	--	0.17 UJ
Hexachloroethane	*NS*	*NS*	*NS*		0.038 U	0.038 U	--	--	0.031 U
Indeno(1,2,3-c,d)pyrene	*0.5*	*37*	*6.6*		**0.20 J**	**0.093 J**	--	--	**0.029 J**
Isophorone	*NS*	*NS*	*NS*		0.045 U	0.045 U	--	--	0.037 U
Naphthalene	*12*	*500*	*12*		0.006 U	0.0059 U	--	--	0.0049 U
Nitrobenzene	*0.08*	*8.9*	*0.08*		0.048 U	0.047 U	--	--	0.039 U
N-Nitrosodi-N-propylamine	*NS*	*NS*	*NS*		0.053 U	0.052 U	--	--	0.043 U
N-Nitrosodiphenylamine	*NS*	*NS*	*NS*		0.055 U	0.054 U	--	--	0.045 U
Pentachlorophenol	*0.8*	*6.9*	*0.8*		0.054 U	0.054 U	--	--	0.044 U
Phenanthrene	*1.1*	*47*	*1000*		**0.050**	**0.096**	--	--	**0.017 J**
Phenol	*0.33*	*500*	*0.33*		0.04 U	0.04 U	--	--	0.033 U
Pyrene	*64*	*500*	*1000*		**0.11**	**0.13**	--	--	**0.045**
Pyridine	*NS*	*NS*	*NS*		0.054 U	0.053 U	--	--	0.044 U
Semivolatile Organic Compounds by Method SW8270DSIM (mg/kg)									
1,4-Dioxane	*0.1*	*36*	*0.1*		0.025 U	0.025 U	--	--	0.021 U
Organochlorine Pesticides by Method 8081B (mg/kg)									
Aldrin	*0.0048*	*0.33*	*0.19*		0.0033 U	0.0033 U	--	--	0.0027 U
Alpha BHC (Alpha Hexachlorocyclohexane)	*0.02*	*1.2*	*0.02*		0.013 U	0.013 U	--	--	0.01 U
Alpha Endosulfan	*4.3*	*360*	*65*		0.011 U	0.011 U	--	--	0.009 U
Beta BHC (Beta Hexachlorocyclohexane)	*0.021*	*1.8*	*0.09*		0.016 U	0.016 U	--	--	0.013 U
Beta Endosulfan	*4.3*	*360*	*44*		0.01 U	0.01 U	--	--	0.0083 U
cis-Chlordane	*0.014*	*8.2*	*4.5*		**0.014 J**	**0.036**	--	--	**0.012 J**
Delta BHC (Delta Hexachlorocyclohexane)	*0.04*	*500*	*0.1*		0.012 U	0.012 U	--	--	0.01 U
Dieldrin	*0.005*	*0.48*	*0.1*		0.0035 U	0.0035 U	--	--	0.0031 U
Endosulfan Sulfate	*4.3*	*360*	*47*		0.01 U	0.01 U	--	--	0.0083 U
Endrin	*0.014*	*55*	*0.06*		0.013 U	0.013 U	--	--	0.011 U
Endrin Aldehyde	*NS*	*NS*	*NS*		0.012 U	0.012 U	--	--	0.01 U
Endrin Ketone	*NS*	*NS*	*NS*		0.01 U	0.01 U	--	--	0.0084 U
Gamma BHC (Lindane)	*0.025*	*0.21*	*0.05*		0.0039 U	0.0038 U	--	--	0.0032 U
Heptachlor	*0.013*	*5.1*	*0.38*		0.014 U	0.014 U	--	--	0.011 U

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS1-A Sample Name: 20251014-SS1-A Depth: 0 - 6 in Date: 10/14/25	SS1-A DUP-20251014 0 - 6 in 10/14/25	SS1-B 20251014-SS1-B 6 - 12 in 10/14/25	SB1-C 20251015-SB1-C 4.5 ft 10/15/25	SS2-A 20251014-SS2-A 0 - 6 in 10/14/25
Heptachlor Epoxide	*NS*	*NS*	*NS*		0.011 U	0.011 U	--	--	0.0092 U
Methoxychlor	*NS*	*NS*	*NS*		0.067 U	0.066 U	--	--	0.055 U
4,4'-DDD	*0.0033*	*33*	*14*		0.004 U	0.004 U	--	--	0.0033 U
4,4'-DDE	*0.0033*	*22*	*9.3*		0.0042 U	0.0033 U	--	--	0.0035 U
4,4'-DDT	*0.0033*	*27*	*135*		**0.0092 J**	**0.0077 J**	--	--	0.0034 U
Toxaphene	*NS*	*NS*	*NS*		0.28 U	0.27 U	--	--	0.23 U
trans-Chlordane	*NS*	*NS*	*NS*		**0.019 J**	**0.014 J**	--	--	**0.012 J**
Polychlorinated Biphenyls (PCBs) by Method 8082A (mg/kg)									
PCB-1016 (Aroclor 1016)	*0.1*	*1*	*3.2*		0.026 U	0.026 U	--	--	0.022 U
PCB-1221 (Aroclor 1221)	*0.1*	*1*	*3.2*		0.046 UJ	0.045 UJ	--	--	0.038 UJ
PCB-1232 (Aroclor 1232)	*0.1*	*1*	*3.2*		0.026 U	0.026 U	--	--	0.021 U
PCB-1242 (Aroclor 1242)	*0.1*	*1*	*3.2*		0.027 UJ	0.027 UJ	--	--	0.023 UJ
PCB-1248 (Aroclor 1248)	*0.1*	*1*	*3.2*		0.037 U	0.037 U	--	--	0.03 U
PCB-1254 (Aroclor 1254)	*0.1*	*1*	*3.2*		0.043 U	0.043 U	--	--	0.036 U
PCB-1260 (Aroclor 1260)	*0.1*	*1*	*3.2*		**0.054 J**	**0.073 J**	--	--	**0.027 J**
PCB-1262 (Aroclor 1262)	*0.1*	*1*	*3.2*		0.034 U	0.034 U	--	--	0.028 U
PCB-1268 (Aroclor 1268)	*0.1*	*1*	*3.2*		0.026 UJ	0.026 UJ	--	--	0.021 UJ
Per- and Polyfluoroalkyl Substances (PFAS) by Method E1633 (ug/kg)									
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid	*NS*	*NS*	*NS*		0.266 U	0.264 U	--	--	0.266 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	*NS*	*NS*	*NS*		**0.589 J**	**0.491 J**	--	--	0.368 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	*NS*	*NS*	*NS*		0.296 U	0.294 U	--	--	0.296 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	*NS*	*NS*	*NS*		0.286 U	0.284 U	--	--	0.286 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	*NS*	*NS*	*NS*		0.711 U	0.706 U	--	--	0.711 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	*NS*	*NS*	*NS*		**4.39**	**7.80**	--	--	**4.16**
2H,2H,3H,3H-Perfluorooctanoic acid	*NS*	*NS*	*NS*		1.55 U	1.54 U	--	--	1.55 UJ
3-Perfluoroheptyl propanoic acid	*NS*	*NS*	*NS*		1.58 U	**1.61 J**	--	--	1.58 U
3-Perfluoropropyl propanoic acid	*NS*	*NS*	*NS*		0.49 U	0.487 UJ	--	--	0.49 UJ
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	*NS*	*NS*	*NS*		0.318 U	0.316 U	--	--	0.318 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic Acid	*NS*	*NS*	*NS*		0.233 U	0.231 U	--	--	0.233 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	*NS*	*NS*	*NS*		0.337 U	0.335 U	--	--	0.337 U
N-ethyl perfluoro-1-octanesulfonamide	*NS*	*NS*	*NS*		0.0896 U	0.089 U	--	--	0.0896 U
N-ethyl perfluorooctanesulfonamidoacetic acid	*NS*	*NS*	*NS*		**1.64**	**1.58**	--	--	**0.972**
N-methyl perfluoro-1-octanesulfonamide	*NS*	*NS*	*NS*		**0.191 J**	0.0586 U	--	--	0.059 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	*NS*	*NS*	*NS*		**3.40**	**5.59**	--	--	**2.95**
Nonafluoro-3,6-dioxaheptanoic acid	*NS*	*NS*	*NS*		0.245 U	0.244 U	--	--	0.245 U
Perfluoro(2-ethoxyethane)sulfonic acid	*NS*	*NS*	*NS*		0.145 U	0.144 U	--	--	0.145 U
Perfluoro-3-methoxypropanoic acid	*NS*	*NS*	*NS*		0.0921 U	0.0915 U	--	--	0.0922 U
Perfluoro-4-methoxybutanoic acid	*NS*	*NS*	*NS*		0.123 U	0.122 U	--	--	0.123 U
Perfluorobutanesulfonic acid (PFBS)	*NS*	*NS*	*NS*		**2.51**	**2.26**	--	--	**0.953**

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID:	SS1-A	SS1-A	SS1-B	SB1-C	SS2-A
					Sample Name:	20251014-SS1-A	DUP-20251014	20251014-SS1-B	20251015-SB1-C	20251014-SS2-A
					Depth:	0 - 6 in	0 - 6 in	6 - 12 in	4.5 ft	0 - 6 in
					Date:	10/14/25	10/14/25	10/14/25	10/15/25	10/14/25
Perfluorobutanoic Acid	*NS*	*NS*	*NS*			**1.06**	**0.866**	--	–	**0.296 J**
Perfluorodecanesulfonic acid (PFDS)	*NS*	*NS*	*NS*			**0.796**	**0.903**	--	–	**0.115 J**
Perfluorodecanoic acid (PFDA)	*NS*	*NS*	*NS*			**29.7**	**28.2**	--	–	**1.45**
Perfluorododecanesulfonic acid (PFDOS)	*NS*	*NS*	*NS*			0.0576 U	0.0573 U	--	–	0.0577 U
Perfluorododecanoic acid (PFDoA)	*NS*	*NS*	*NS*			**22.3**	**18.5**	--	–	**4.25**
Perfluoroheptanesulfonic acid (PFHpS)	*NS*	*NS*	*NS*			0.105 U	0.104 U	--	–	0.105 U
Perfluoroheptanoic acid (PFHpA)	*NS*	*NS*	*NS*			**1.85**	**1.68**	--	–	**0.593**
Perfluorohexanesulfonic acid (PFHxS)	*NS*	*NS*	*NS*			**0.260**	**0.185 J**	--	–	0.0753 U
Perfluorohexanoic acid (PFHxA)	*NS*	*NS*	*NS*			**1.64**	**1.35**	--	–	**0.618**
Perfluorononanesulfonic Acid (PFNS)	*NS*	*NS*	*NS*			0.0602 U	0.0598 U	--	–	0.0603 U
Perfluorononanoic acid (PFNA)	*NS*	*NS*	*NS*			**5.97**	**5.19**	--	–	**0.432**
Perfluorooctane Sulfonamide (FOSA)	*NS*	*NS*	*NS*			**4.71**	**4.87**	--	–	**0.581 J**
Perfluorooctanesulfonic acid (PFOS)	*0.88*	*440*	*1*			**17.8**	**17.5**	--	–	**0.700**
Perfluorooctanoic acid (PFOA)	*0.66*	*500*	*0.8*			**15.1**	**13.9**	--	–	**2.80**
Perfluoropentanesulfonic Acid (PFPeS)	*NS*	*NS*	*NS*			0.0644 U	0.064 U	--	–	0.0644 U
Perfluoropentanoic Acid (PFPeA)	*NS*	*NS*	*NS*			**2.03**	**1.89**	--	–	**0.693 J**
Perfluorotetradecanoic acid (PFTA)	*NS*	*NS*	*NS*			**6.86**	**6.39**	--	–	**3.07 J**
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	*NS*	*NS*	*NS*			**5.40**	**4.58**	--	–	**2.04 J**
Perfluoroundecanoic Acid (PFUnA)	*NS*	*NS*	*NS*			**12.9**	**11.8**	--	–	**0.939**
Metals by Method SW6010D (mg/kg)										
Aluminum	*NS*	*NS*	*NS*			**2220**	**2280**	--	–	**762**
Antimony	*NS*	*NS*	*NS*			3.76 U	3.81 U	--	–	3.06 U
Arsenic	*13*	*16*	*16*			**3.68**	**3.00**	--	–	**0.571 J**
Barium	*410*	*410*	*820*			**19.0**	**18.6**	--	–	**2.98**
Beryllium	*4.4*	*670*	*47*			**0.097 J**	**0.089 J**	--	–	0.044 U
Cadmium	*2.5*	*3.7*	*7.5*			**0.303 J**	**0.316 J**	--	–	0.044 U
Calcium	*NS*	*NS*	*NS*			**899**	**1430**	--	–	**93.0**
Chromium, Total	*30*	*1700*	*NS*			**5.20**	**5.59**	--	–	**1.88**
Cobalt	*NS*	*NS*	*NS*			**1.86 J**	**1.15 J**	--	–	**0.476 J**
Copper	*50*	*280*	*1720*			**42.0**	**65.3**	--	–	**7.72**
Iron	*NS*	*NS*	*NS*			**8440**	**4900**	--	–	**1530**
Lead	*63*	*1000*	*450*			**110**	**109**	--	–	**23.0**
Magnesium	*NS*	*NS*	*NS*			**318**	**502**	--	–	**159**
Manganese	*1600*	*10000*	*2000*			**80.9**	**52.1**	--	–	**22.5**
Nickel	*30*	*320*	*130*			**3.10**	**3.16**	--	–	**0.959 J**
Potassium	*NS*	*NS*	*NS*			**91.8 J**	**117 J**	--	–	40.3 U
Selenium	*3.9*	*1700*	*4*			**0.534 J**	0.326 U	--	–	0.262 U
Silver	*2*	*1700*	*8.3*			**0.353 J**	**0.386 J**	--	–	0.237 U
Sodium	*NS*	*NS*	*NS*			103 U	105 U	--	–	84.3 U

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS1-A Sample Name: 20251014-SS1-A Depth: 0 - 6 in Date: 10/14/25	SS1-A DUP-20251014 0 - 6 in 10/14/25	SS1-B 20251014-SS1-B 6 - 12 in 10/14/25	SB1-C 20251015-SB1-C 4.5 ft 10/15/25	SS2-A 20251014-SS2-A 0 - 6 in 10/14/25
Thallium	*NS*	*NS*	*NS*		0.88 U	0.893 U	--	--	0.717 U
Vanadium	*NS*	*NS*	*NS*		**8.69**	**5.80**	--	--	**3.00**
Zinc	*109*	*10000*	*2480*		**124**	**107**	--	--	**12.6**
Mercury by Method SW7471B (mg/kg)									
Mercury	*0.18*	*1.1*	*0.73*		**0.084**	**0.152**	--	--	0.047 U
Cyanide by Method SW9014 (mg/kg)									
Cyanide	*2.3*	*28*	*40*		**0.52 J**	**0.60 J**	--	--	0.44 U
Total Solids by Method SM2540G (%)									
Percent Solids	*NS*	*NS*	*NS*		**79.4**	**80.6**	**87.1**	**94.3**	**97.1**

Key:

Qualifiers

J = Estimated value

J- = Estimated value, biased low

U = Not Detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Notes

NS = No established standard or guidance value

-- = Not analyzed

Other

µg/kg = Micrograms per kilogram

mg/kg = miligrams per kilogram

ft = feet

in = inches

Bold values denote positive detections.	**1**
Exceeds Unrestricted Soil Cleanup Objective	**10**
Exceeds Unrestricted and Protection of Groundwater Soil Cleanup Objective	**100**
Exceeds All Soil Cleanup Objective	**100**

1. New York State Department of Environmental Conservation, Codes, Rules, and Regulations Part 375-6.8(a): *Unrestricted Use Soil Cleanup Objectives* 1998 (with updates)

2. New York State Department of Environmental Conservation, Codes, Rules, and Regulations Part 375-6.8(b): *Restricted Use Soil Cleanup Objectives* 1998 (with updates), Commercial Protection of Public Health

3. New York State Department of Environmental Conservation, Codes, Rules, and Regulations Part 375-6.8(b): *Restricted Use Soil Cleanup Objectives* 1998 (with updates), Protection of Groundwater

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID:	SS2-B	SB2-C	SB2-C	SS3-A	SS3-B
					Sample Name:	20251014-SS2-B	20251015-SB2-C	DUP-20251015	20251014-SS3-A	20251014-SS3-B
					Depth:	6 - 12 in	5 ft	5 ft	0 - 6 in	6 - 12 in
					Date:	10/14/25	10/15/25	10/15/25	10/14/25	10/14/25
1,1,1-Trichloroethane (TCA)	*0.68*	*500*	*0.68*			0.00033 U	0.00041 U	0.00034 U	0.00068 U	0.00077 U
1,1,2,2-Tetrachloroethane	*NS*	*NS*	*NS*			0.00043 U	0.00053 U	0.00043 U	0.00088 U	0.00098 U
1,1,2-Trichloro-1,2,2-trifluoroethane	*NS*	*NS*	*NS*			0.00054 U	0.00067 U	0.00055 U	0.0011 U	0.0012 U
1,1,2-Trichloroethane	*NS*	*NS*	*NS*			0.00026 U	0.00032 U	0.00026 U	0.00053 U	0.00059 U
1,1-Dichloroethane	*0.27*	*240*	*0.27*			0.00029 U	0.00036 U	0.0003 U	0.0006 U	0.00067 U
1,1-Dichloroethene	*0.24*	*5.1*	*0.33*			0.00045 U	0.00056 U	0.00046 U	0.00092 U	0.001 U
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*			0.00038 U	0.00047 U	0.00038 U	0.00077 U	0.00086 U
1,2,3-Trichloropropane	*NS*	*NS*	*NS*			0.00043 U	0.00053 U	0.00044 U	0.00088 U	0.00099 U
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*			0.00031 U	0.00039 U	0.00032 U	0.00064 U	0.00072 U
1,2,4-Trimethylbenzene	*5.9*	*500*	*5.9*			0.0004 U	0.0005 U	0.00041 U	0.00082 U	0.00092 U
1,2-Dibromo-3-chloropropane	*NS*	*NS*	*NS*			0.0004 U	0.00049 U	0.0004 U	0.00081 U	0.00091 U
1,2-Dibromoethane (Ethylene Dibromide)	*NS*	*NS*	*NS*			0.00034 U	0.00042 U	0.00034 U	0.0007 U	0.00078 U
1,2-Dichlorobenzene	*1.1*	*500*	*1.1*			0.00029 U	0.00036 U	0.0003 U	0.0006 U	0.00067 U
1,2-Dichloroethane	*0.02*	*30*	*0.02*			0.00033 U	0.00041 U	0.00034 U	0.00068 U	0.00076 U
1,2-Dichloropropane	*NS*	*NS*	*NS*			0.00031 U	0.00038 U	0.00031 U	0.00063 U	0.0007 U
1,3,5-Trimethylbenzene (Mesitylene)	*3.1*	*500*	*3.1*			0.00035 U	0.00043 U	0.00035 U	0.00071 U	0.00079 U
1,3-Dichlorobenzene	*2.6*	*280*	*2.6*			0.00028 U	0.00035 U	0.00029 U	0.00058 U	0.00065 U
1,4-Dichlorobenzene	*1.8*	*130*	*1.8*			0.00029 U	0.00035 U	0.00029 U	0.00059 U	0.00066 U
2-Hexanone	*NS*	*NS*	*NS*			0.0037 U	0.0046 U	0.0038 U	0.0076 U	0.0085 U
2-Methoxy-2-methylbutane	*NS*	*NS*	*NS*			0.00044 U	0.00055 U	0.00045 U	0.0009 U	0.001 U
2-Methyl-2-butanol	*NS*	*NS*	*NS*			0.002 UJ	0.0025 U	0.0021 U	0.0042 UJ	0.0047 UJ
Acetone	*0.03*	*500*	*0.03*			**0.0091 J**	**0.062 J**	**0.056 J**	0.013 UJ	0.014 UJ
Benzene	*0.06*	*20*	*0.06*			0.00034 U	0.00042 U	0.00034 U	0.0007 U	0.00078 U
Bromochloromethane	*NS*	*NS*	*NS*			0.00047 U	0.00058 U	0.00048 U	0.00096 U	0.0011 U
Bromodichloromethane	*NS*	*NS*	*NS*			0.00032 U	0.0004 U	0.00033 U	0.00066 U	0.00074 U
Bromoform	*NS*	*NS*	*NS*			0.00055 U	0.00068 U	0.00055 U	0.0011 U	0.0013 U
Bromomethane	*NS*	*NS*	*NS*			0.00073 U	0.00091 U	0.00074 U	0.0015 U	0.0017 U
Carbon Disulfide	*NS*	*NS*	*NS*			0.0058 U	0.0072 U	0.0059 U	0.012 U	0.013 U
Carbon Tetrachloride	*0.76*	*41*	*0.76*			0.00038 U	0.00047 U	0.00039 U	0.00078 U	0.00088 U
Chlorobenzene	*4.5*	*500*	*4.5*			0.00032 U	0.0004 U	0.00033 U	0.00066 U	0.00074 U
Chloroethane	*NS*	*NS*	*NS*			0.00068 U	0.00084 U	0.00069 U	0.0014 U	0.0016 U
Chloroform	*0.37*	*180*	*0.37*			0.00031 U	0.00039 U	0.00032 U	0.00064 U	0.00072 U
Chloromethane (Methyl Chloride)	*NS*	*NS*	*NS*			0.00064 U	0.0008 U	0.00065 U	0.0013 U	0.0015 U
cis-1,2-Dichloroethene	*0.19*	*500*	*0.19*			0.00033 U	**0.018**	**0.013**	0.00068 U	0.00077 U
cis-1,3-Dichloropropene	*NS*	*NS*	*NS*			0.00041 U	0.00051 U	0.00042 U	0.00084 U	0.00094 U
Cyclohexane	*NS*	*NS*	*NS*			0.0019 U	0.0024 U	0.002 U	0.004 U	0.0045 U
Cymene (4-Isopropyltoluene)	*NS*	*NS*	*NS*			0.00029 UJ	0.00036 UJ	0.0003 UJ	0.0006 UJ	0.00067 UJ
Dibromochloromethane	*NS*	*NS*	*NS*			0.00043 U	0.00054 U	0.00044 U	0.00089 U	0.00099 U
Dichlorodifluoromethane	*NS*	*NS*	*NS*			0.00054 U	0.00067 U	0.00054 U	0.0011 U	0.0012 U

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID:	SS2-B	SB2-C	SB2-C	SS3-A	SS3-B
					Sample Name:	20251014-SS2-B	20251015-SB2-C	DUP-20251015	20251014-SS3-A	20251014-SS3-B
					Depth:	6 - 12 in	5 ft	5 ft	0 - 6 in	6 - 12 in
					Date:	10/14/25	10/15/25	10/15/25	10/14/25	10/14/25
Ethanol	*NS*	*NS*	*NS*			0.019 UJ	0.024 UJ	0.019 UJ	0.039 UJ	0.044 UJ
Ethyl tert-Amyl Ether	*NS*	*NS*	*NS*			0.00031 U	0.00039 U	0.00032 U	0.00064 U	0.00071 U
Ethyl tert-Butyl Ether	*NS*	*NS*	*NS*			0.00037 U	0.00046 U	0.00038 U	0.00076 U	0.00085 U
Ethylbenzene	*1*	*390*	*1*			0.00026 U	0.00032 U	0.00026 U	0.00053 U	0.0006 U
Isopropyl Ether	*NS*	*NS*	*NS*			0.00044 U	0.00054 U	0.00044 U	0.0009 U	0.001 U
Isopropylbenzene (Cumene)	*NS*	*NS*	*NS*			0.00031 U	0.00038 U	0.00031 U	0.00063 U	0.0007 U
m,p-Xylene	*0.26*	*NS*	*NS*			0.00051 U	0.00063 U	0.00051 U	0.001 U	0.0012 U
Methyl Acetate	*NS*	*NS*	*NS*			0.00063 UJ	0.00078 UJ	**0.015 J**	0.0013 UJ	0.0014 UJ
Methyl Ethyl Ketone (2-Butanone)	*0.1*	*500*	*0.1*			0.0041 U	**0.0074 J**	**0.0052 J**	0.0085 U	0.0095 U
Methyl Isobutyl Ketone (4-Methyl-2-pentanone)	*NS*	*NS*	*NS*			0.0046 U	0.0057 U	0.0047 U	0.0094 U	0.011 U
Methylcyclohexane	*NS*	*NS*	*NS*			0.00033 U	0.00041 U	0.00034 U	0.00068 U	0.00076 U
Methylene Chloride	*0.05*	*500*	*0.05*			0.00034 U	0.00042 U	0.00034 U	0.00069 U	0.00077 U
Naphthalene	*12*	*500*	*12*			0.00048 UJ	0.0006 U	0.00049 U	0.00099 UJ	0.0011 UJ
n-Butylbenzene	*18*	*500*	*18*			0.00032 U	0.0004 U	0.00033 U	0.00066 U	0.00074 U
n-Propylbenzene	*5*	*500*	*5*			0.00031 U	0.00039 U	0.00032 U	0.00064 U	0.00072 U
o-Xylene	*0.26*	*NS*	*NS*			0.00028 U	0.00035 U	0.00029 U	0.00058 U	0.00065 U
sec-Butylbenzene	*25*	*500*	*25*			0.00035 UJ	0.00043 UJ	0.00035 UJ	0.00072 UJ	0.0008 UJ
Styrene	*NS*	*NS*	*NS*			0.0003 U	0.00037 U	0.00031 U	0.00062 U	0.00069 U
T-Butylbenzene	*11*	*500*	*11*			0.00032 U	0.00039 U	0.00032 U	0.00065 U	0.00073 U
tert-Butyl Alcohol	*NS*	*NS*	*NS*			0.017 U	0.021 U	0.018 U	0.036 U	0.04 U
tert-Butyl Methyl Ether	*0.1*	*500*	*0.1*			0.00038 U	0.00047 U	0.00038 U	0.00077 U	0.00087 U
Tetrachloroethene (PCE)	*1.3*	*81*	*1.3*			**0.0050**	**0.081**	**0.053**	0.00081 U	**0.00099 J**
Toluene	*0.7*	*500*	*0.7*			0.00026 U	0.00032 U	0.00026 U	0.00053 U	0.0006 U
trans-1,2-Dichloroethene	*0.19*	*500*	*0.19*			0.0003 U	**0.00082 J**	**0.00058 J**	0.00062 U	0.00069 U
trans-1,3-Dichloropropene	*NS*	*NS*	*NS*			0.00038 U	0.00047 U	0.00039 U	0.00078 U	0.00088 U
Trichloroethene (TCE)	*0.47*	*54*	*0.47*			0.00031 U	**0.024**	**0.016**	0.00063 U	0.00071 U
Trichlorofluoromethane	*NS*	*NS*	*NS*			0.00064 U	0.00079 U	0.00064 U	0.0013 U	0.0015 U
Vinyl Chloride	*0.03*	*7.1*	*0.03*			0.00039 U	0.00048 UJ	0.00039 UJ	0.00079 U	0.00089 U
Xylenes	*0.26*	*500*	*1.2*			0.00095 U	0.0012 U	0.00097 U	0.002 U	0.0022 U
Semivolatile Organic Compounds by Method 8270E (mg/kg)										
1,2,4,5-Tetrachlorobenzene	*NS*	*NS*	*NS*			--	--	--	0.036 U	--
1-Methylnaphthalene	*NS*	*NS*	*NS*			--	--	--	0.0046 U	--
2,3,4,6-Tetrachlorophenol	*NS*	*NS*	*NS*			--	--	--	0.053 U	--
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*			--	--	--	0.038 U	--
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*			--	--	--	0.033 U	--
2,4-Dichlorophenol	*NS*	*NS*	*NS*			--	--	--	0.035 U	--
2,4-Dimethylphenol	*NS*	*NS*	*NS*			--	--	--	0.077 U	--
2,4-Dinitrophenol	*NS*	*NS*	*NS*			--	--	--	0.35 U	--
2,4-Dinitrotoluene	*NS*	*NS*	*NS*			--	--	--	0.089 UJ	--

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID:	SS2-B	SB2-C	SB2-C	SS3-A	SS3-B
					Sample Name:	20251014-SS2-B	20251015-SB2-C	DUP-20251015	20251014-SS3-A	20251014-SS3-B
					Depth:	6 - 12 in	5 ft	5 ft	0 - 6 in	6 - 12 in
					Date:	10/14/25	10/15/25	10/15/25	10/14/25	10/14/25
2,6-Dinitrotoluene	*NS*	*NS*	*NS*			--	--	--	0.047 U	--
2-Chloronaphthalene	*NS*	*NS*	*NS*			--	--	--	0.033 U	--
2-Chlorophenol	*NS*	*NS*	*NS*			--	--	--	0.033 U	--
2-Methylnaphthalene	*NS*	*NS*	*NS*			--	--	--	0.0042 U	--
2-Methylphenol (o-Cresol)	*NS*	*NS*	*NS*			--	--	--	0.047 U	--
2-Nitroaniline	*NS*	*NS*	*NS*			--	--	--	0.058 U	--
2-Nitrophenol	*NS*	*NS*	*NS*			--	--	--	0.039 U	--
3- And 4- Methylphenol (Total)	*NS*	*NS*	*NS*			--	--	--	0.061 U	--
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*			--	--	--	0.067 U	--
3-Nitroaniline	*NS*	*NS*	*NS*			--	--	--	0.049 U	--
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*			--	--	--	0.31 U	--
4-Bromophenyl Phenyl Ether	*NS*	*NS*	*NS*			--	--	--	0.033 U	--
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*			--	--	--	0.039 U	--
4-Chloroaniline	*NS*	*NS*	*NS*			--	--	--	0.06 UJ	--
4-Chlorophenyl Phenyl Ether	*NS*	*NS*	*NS*			--	--	--	0.034 U	--
4-Nitroaniline	*NS*	*NS*	*NS*			--	--	--	0.053 U	--
4-Nitrophenol	*NS*	*NS*	*NS*			--	--	--	0.15 UJ	--
Acenaphthene	*20*	*500*	*98*			--	--	--	0.0041 U	--
Acenaphthylene	*100*	*500*	*365*			--	--	--	0.0046 U	--
Acetophenone	*NS*	*NS*	*NS*			--	--	--	0.039 U	--
Aniline	*0.04*	*36*	*0.04*			--	--	--	0.071 U	--
Anthracene	*100*	*500*	*1000*			--	--	--	0.0042 U	--
Atrazine	*NS*	*NS*	*NS*			--	--	--	0.051 U	--
Benzaldehyde	*NS*	*NS*	*NS*			--	--	--	0.052 UJ	--
Benzo(a)anthracene	*1*	*37*	*1*			--	--	--	**0.023 J**	--
Benzo(a)pyrene	*1*	*3.7*	*22*			--	--	--	**0.028 J**	--
Benzo(b)fluoranthene	*1*	*37*	*2.1*			--	--	--	**0.039**	--
Benzo(g,h,i)perylene	*0.64*	*47*	*1000*			--	--	--	**0.025 J**	--
Benzo(k)fluoranthene	*0.8*	*47*	*2*			--	--	--	**0.015 J**	--
Benzyl Butyl Phthalate	*NS*	*NS*	*NS*			--	--	--	0.043 U	--
Biphenyl (Diphenyl or 1,1'-Biphenyl)	*NS*	*NS*	*NS*			--	--	--	0.042 U	--
Bis(2-chloroethoxy) Methane	*NS*	*NS*	*NS*			--	--	--	0.038 U	--
Bis(2-chloroethyl) Ether (2-Chloroethyl Ether)	*NS*	*NS*	*NS*			--	--	--	0.05 U	--
Bis(2-chloroisopropyl) Ether	*NS*	*NS*	*NS*			--	--	--	0.15 U	--
Bis(2-ethylhexyl) Phthalate	*NS*	*NS*	*NS*			--	--	--	0.051 U	--
Caprolactam	*NS*	*NS*	*NS*			--	--	--	0.065 U	--
Carbazole	*NS*	*NS*	*NS*			--	--	--	0.039 U	--
Chrysene	*1*	*47*	*1*			--	--	--	**0.025 J**	--
Dibenz(a,h)anthracene	*0.33*	*3.7*	*1000*			--	--	--	0.016 U	--

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS2-B Sample Name: 20251014-SS2-B Depth: 6 - 12 in Date: 10/14/25	Location ID: SB2-C Sample Name: 20251015-SB2-C Depth: 5 ft Date: 10/15/25	Location ID: SB2-C Sample Name: DUP-20251015 Depth: 5 ft Date: 10/15/25	Location ID: SS3-A Sample Name: 20251014-SS3-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS3-B Sample Name: 20251014-SS3-B Depth: 6 - 12 in Date: 10/14/25
Dibenzofuran	*2.1*	*180*	*110*		–	–	--	0.037 U	--
Diethyl Phthalate	*NS*	*NS*	*NS*		–	–	--	0.036 U	--
Dimethyl Phthalate	*NS*	*NS*	*NS*		–	–	--	0.033 U	--
Di-N-Butyl Phthalate	*NS*	*NS*	*NS*		–	–	--	0.14 U	--
Di-N-Octylphthalate	*NS*	*NS*	*NS*		–	–	--	0.055 U	--
Fluoranthene	*85*	*500*	*1000*		–	–	--	**0.043**	--
Fluorene	*30*	*500*	*386*		–	–	--	0.0044 U	--
Hexachlorobenzene	*0.33*	*1.8*	*3.2*		–	–	--	0.038 U	--
Hexachlorobutadiene	*NS*	*NS*	*NS*		–	–	--	0.039 U	--
Hexachlorocyclopentadiene	*NS*	*NS*	*NS*		–	–	--	0.19 UJ	--
Hexachloroethane	*NS*	*NS*	*NS*		–	–	--	0.034 U	--
Indeno(1,2,3-c,d)pyrene	*0.5*	*37*	*6.6*		–	–	--	**0.024 J**	--
Isophorone	*NS*	*NS*	*NS*		–	–	--	0.04 U	--
Naphthalene	*12*	*500*	*12*		–	–	--	0.0053 U	--
Nitrobenzene	*0.08*	*8.9*	*0.08*		–	–	--	0.042 U	--
N-Nitrosodi-N-propylamine	*NS*	*NS*	*NS*		–	–	--	0.046 U	--
N-Nitrosodiphenylamine	*NS*	*NS*	*NS*		–	–	--	0.049 U	--
Pentachlorophenol	*0.8*	*6.9*	*0.8*		–	–	--	0.048 U	--
Phenanthrene	*1.1*	*47*	*1000*		–	–	--	**0.013 J**	--
Phenol	*0.33*	*500*	*0.33*		–	–	--	0.036 U	--
Pyrene	*64*	*500*	*1000*		–	–	--	**0.036 J**	--
Pyridine	*NS*	*NS*	*NS*		–	–	--	0.048 U	--
Semivolatile Organic Compounds by Method SW8270DSIM (mg/kg)									
1,4-Dioxane	*0.1*	*36*	*0.1*		–	–	--	0.022 U	--
Organochlorine Pesticides by Method 8081B (mg/kg)									
Aldrin	*0.0048*	*0.33*	*0.19*		–	–	--	0.00059 U	--
Alpha BHC (Alpha Hexachlorocyclohexane)	*0.02*	*1.2*	*0.02*		–	–	--	0.0023 U	--
Alpha Endosulfan	*4.3*	*360*	*65*		–	–	--	0.0019 U	--
Beta BHC (Beta Hexachlorocyclohexane)	*0.021*	*1.8*	*0.09*		–	–	--	0.0029 U	--
Beta Endosulfan	*4.3*	*360*	*44*		–	–	--	0.0018 U	--
cis-Chlordane	*0.014*	*8.2*	*4.5*		–	–	--	**0.026 J**	--
Delta BHC (Delta Hexachlorocyclohexane)	*0.04*	*500*	*0.1*		–	–	--	0.0022 U	--
Dieldrin	*0.005*	*0.48*	*0.1*		–	–	--	**0.00084 J**	--
Endosulfan Sulfate	*4.3*	*360*	*47*		–	–	--	0.0018 U	--
Endrin	*0.014*	*55*	*0.06*		–	–	--	0.0023 U	--
Endrin Aldehyde	*NS*	*NS*	*NS*		–	–	--	0.0022 U	--
Endrin Ketone	*NS*	*NS*	*NS*		–	–	--	0.0018 U	--
Gamma BHC (Lindane)	*0.025*	*0.21*	*0.05*		–	–	--	0.00069 U	--
Heptachlor	*0.013*	*5.1*	*0.38*		–	–	--	0.0024 U	--

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS2-B Sample Name: 20251014-SS2-B Depth: 6 - 12 in Date: 10/14/25	Location ID: SB2-C Sample Name: 20251015-SB2-C Depth: 5 ft Date: 10/15/25	Location ID: SB2-C Sample Name: DUP-20251015 Depth: 5 ft Date: 10/15/25	Location ID: SS3-A Sample Name: 20251014-SS3-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS3-B Sample Name: 20251014-SS3-B Depth: 6 - 12 in Date: 10/14/25
Heptachlor Epoxide	*NS*	*NS*	*NS*		--	--	--	0.0022 U	--
Methoxychlor	*NS*	*NS*	*NS*		--	--	--	0.012 U	--
4,4'-DDD	*0.0033*	*33*	*14*		--	--	--	0.00072 U	--
4,4'-DDE	*0.0033*	*22*	*9.3*		--	--	--	**0.0020 J**	--
4,4'-DDT	*0.0033*	*27*	*135*		--	--	--	**0.0058**	--
Toxaphene	*NS*	*NS*	*NS*		--	--	--	0.049 U	--
trans-Chlordane	*NS*	*NS*	*NS*		--	--	--	**0.026**	--
Polychlorinated Biphenyls (PCBs) by Method 8082A (mg/kg)									
PCB-1016 (Aroclor 1016)	*0.1*	*1*	*3.2*		--	--	--	0.024 U	--
PCB-1221 (Aroclor 1221)	*0.1*	*1*	*3.2*		--	--	--	0.041 UJ	--
PCB-1232 (Aroclor 1232)	*0.1*	*1*	*3.2*		--	--	--	0.023 U	--
PCB-1242 (Aroclor 1242)	*0.1*	*1*	*3.2*		--	--	--	0.024 UJ	--
PCB-1248 (Aroclor 1248)	*0.1*	*1*	*3.2*		--	--	--	0.033 U	--
PCB-1254 (Aroclor 1254)	*0.1*	*1*	*3.2*		--	--	--	0.039 U	--
PCB-1260 (Aroclor 1260)	*0.1*	*1*	*3.2*		--	--	--	0.023 U	--
PCB-1262 (Aroclor 1262)	*0.1*	*1*	*3.2*		--	--	--	0.03 U	--
PCB-1268 (Aroclor 1268)	*0.1*	*1*	*3.2*		--	--	--	0.023 UJ	--
Per- and Polyfluoroalkyl Substances (PFAS) by Method E1633 (ug/kg)									
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid	*NS*	*NS*	*NS*		--	--	--	0.261 U	--
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	*NS*	*NS*	*NS*		--	--	--	0.362 U	--
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	*NS*	*NS*	*NS*		--	--	--	0.291 U	--
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	*NS*	*NS*	*NS*		--	--	--	0.282 U	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	*NS*	*NS*	*NS*		--	--	--	0.699 U	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	*NS*	*NS*	*NS*		--	--	--	0.634 U	--
2H,2H,3H,3H-Perfluorooctanoic acid	*NS*	*NS*	*NS*		--	--	--	1.52 U	--
3-Perfluoroheptyl propanoic acid	*NS*	*NS*	*NS*		--	--	--	1.55 U	--
3-Perfluoropropyl propanoic acid	*NS*	*NS*	*NS*		--	--	--	0.482 U	--
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	*NS*	*NS*	*NS*		--	--	--	0.313 U	--
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic Acid	*NS*	*NS*	*NS*		--	--	--	0.229 U	--
Hexafluoropropylene oxide dimer acid (HFPO-DA)	*NS*	*NS*	*NS*		--	--	--	0.331 U	--
N-ethyl perfluoro-1-octanesulfonamide	*NS*	*NS*	*NS*		--	--	--	0.0881 U	--
N-ethyl perfluorooctanesulfonamidoacetic acid	*NS*	*NS*	*NS*		--	--	--	0.0906 U	--
N-methyl perfluoro-1-octanesulfonamide	*NS*	*NS*	*NS*		--	--	--	0.058 U	--
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	*NS*	*NS*	*NS*		--	--	--	0.1 U	--
Nonafluoro-3,6-dioxaheptanoic acid	*NS*	*NS*	*NS*		--	--	--	0.241 U	--
Perfluoro(2-ethoxyethane)sulfonic acid	*NS*	*NS*	*NS*		--	--	--	0.143 U	--
Perfluoro-3-methoxypropanoic acid	*NS*	*NS*	*NS*		--	--	--	0.0907 U	--
Perfluoro-4-methoxybutanoic acid	*NS*	*NS*	*NS*		--	--	--	0.121 U	--
Perfluorobutanesulfonic acid (PFBS)	*NS*	*NS*	*NS*		--	--	--	0.0626 U	--

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS2-B Sample Name: 20251014-SS2-B Depth: 6 - 12 in Date: 10/14/25	Location ID: SB2-C Sample Name: 20251015-SB2-C Depth: 5 ft Date: 10/15/25	Location ID: SB2-C Sample Name: DUP-20251015 Depth: 5 ft Date: 10/15/25	Location ID: SS3-A Sample Name: 20251014-SS3-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS3-B Sample Name: 20251014-SS3-B Depth: 6 - 12 in Date: 10/14/25
Perfluorobutanoic Acid	*NS*	*NS*	*NS*		--	--	--	0.27 U	--
Perfluorodecanesulfonic acid (PFDS)	*NS*	*NS*	*NS*		--	--	--	0.0636 U	--
Perfluorodecanoic acid (PFDA)	*NS*	*NS*	*NS*		--	--	--	**0.313**	--
Perfluorododecanesulfonic acid (PFDOS)	*NS*	*NS*	*NS*		--	--	--	0.0567 U	--
Perfluorododecanoic acid (PFDoA)	*NS*	*NS*	*NS*		--	--	--	**0.975**	--
Perfluoroheptanesulfonic acid (PFHpS)	*NS*	*NS*	*NS*		--	--	--	0.103 U	--
Perfluoroheptanoic acid (PFHpA)	*NS*	*NS*	*NS*		--	--	--	0.0814 U	--
Perfluorohexanesulfonic acid (PFHxS)	*NS*	*NS*	*NS*		--	--	--	0.0741 U	--
Perfluorohexanoic acid (PFHxA)	*NS*	*NS*	*NS*		--	--	--	**0.0860 J**	--
Perfluorononanesulfonic Acid (PFNS)	*NS*	*NS*	*NS*		--	--	--	0.0593 U	--
Perfluorononanoic acid (PFNA)	*NS*	*NS*	*NS*		--	--	--	**0.0994 J**	--
Perfluorooctane Sulfonamide (FOSA)	*NS*	*NS*	*NS*		--	--	--	**0.117 J**	--
Perfluorooctanesulfonic acid (PFOS)	*0.88*	*440*	*1*		--	--	--	**0.396**	--
Perfluorooctanoic acid (PFOA)	*0.66*	*500*	*0.8*		--	--	--	**0.349**	--
Perfluoropentanesulfonic Acid (PFPeS)	*NS*	*NS*	*NS*		--	--	--	0.0634 U	--
Perfluoropentanoic Acid (PFPeA)	*NS*	*NS*	*NS*		--	--	--	0.123 U	--
Perfluorotetradecanoic acid (PFTA)	*NS*	*NS*	*NS*		--	--	--	**0.293**	--
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	*NS*	*NS*	*NS*		--	--	--	**0.241**	--
Perfluoroundecanoic Acid (PFUnA)	*NS*	*NS*	*NS*		--	--	--	**0.264**	--
Metals by Method SW6010D (mg/kg)									
Aluminum	*NS*	*NS*	*NS*		--	--	--	**5680**	--
Antimony	*NS*	*NS*	*NS*		--	--	--	3.31 U	--
Arsenic	*13*	*16*	*16*		--	--	--	**2.91**	--
Barium	*410*	*410*	*820*		--	--	--	**23.2**	--
Beryllium	*4.4*	*670*	*47*		--	--	--	**0.211 J**	--
Cadmium	*2.5*	*3.7*	*7.5*		--	--	--	**0.189 J**	--
Calcium	*NS*	*NS*	*NS*		--	--	--	**970**	--
Chromium, Total	*30*	*1700*	*NS*		--	--	--	**7.00**	--
Cobalt	*NS*	*NS*	*NS*		--	--	--	**2.15**	--
Copper	*50*	*280*	*1720*		--	--	--	**17.5**	--
Iron	*NS*	*NS*	*NS*		--	--	--	**7060**	--
Lead	*63*	*1000*	*450*		--	--	--	**25.0**	--
Magnesium	*NS*	*NS*	*NS*		--	--	--	**879**	--
Manganese	*1600*	*10000*	*2000*		--	--	--	**104**	--
Nickel	*30*	*320*	*130*		--	--	--	**5.38**	--
Potassium	*NS*	*NS*	*NS*		--	--	--	**214 J**	--
Selenium	*3.9*	*1700*	*4*		--	--	--	0.283 U	--
Silver	*2*	*1700*	*8.3*		--	--	--	0.256 U	--
Sodium	*NS*	*NS*	*NS*		--	--	--	91.2 U	--

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS2-B Sample Name: 20251014-SS2-B Depth: 6 - 12 in Date: 10/14/25	Location ID: SB2-C Sample Name: 20251015-SB2-C Depth: 5 ft Date: 10/15/25	Location ID: SB2-C Sample Name: DUP-20251015 Depth: 5 ft Date: 10/15/25	Location ID: SS3-A Sample Name: 20251014-SS3-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS3-B Sample Name: 20251014-SS3-B Depth: 6 - 12 in Date: 10/14/25
Thallium	*NS*	*NS*	*NS*		--	--	--	0.776 U	--
Vanadium	*NS*	*NS*	*NS*		--	--	--	**10.7**	--
Zinc	*109*	*10000*	*2480*		--	--	--	**73.2**	--
Mercury by Method SW7471B (mg/kg)									
Mercury	*0.18*	*1.1*	*0.73*		--	--	--	0.055 U	--
Cyanide by Method SW9014 (mg/kg)									
Cyanide	*2.3*	*28*	*40*		--	--	--	0.45 U	--
Total Solids by Method SM2540G (%)									
Percent Solids	*NS*	*NS*	*NS*		**94.6**	**93.2**	**92.8**	**89.6**	**87.7**

Key:

Qualifiers

J = Estimated value

J- = Estimated value, biased low

U = Not Detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Notes

NS = No established standard or guidance value

-- = Not analyzed

Other

µg/kg = Micrograms per kilogram

mg/kg = miligrams per kilogram

ft = feet

in = inches

Bold values denote positive detections.	**1**
Exceeds Unrestricted Soil Cleanup Objective	**10**
Exceeds Unrestricted and Protection of Groundwater Soil Cleanup Objective	**100**
Exceeds All Soil Cleanup Objective	**100**

1. New York State Department of Environmental Conservation, Codes, Rules, and Regulations Part 375-6.8(a): *Unrestricted Use Soil Cleanup Objectives* 1998 (with updates)

2. New York State Department of Environmental Conservation, Codes, Rules, and Regulations Part 375-6.8(b): *Restricted Use Soil Cleanup Objectives* 1998 (with updates), Commercial Protection of Public Health

3. New York State Department of Environmental Conservation, Codes, Rules, and Regulations Part 375-6.8(b): *Restricted Use Soil Cleanup Objectives* 1998 (with updates), Protection of Groundwater

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SB3-C Sample Name: 20251015-SB3-C Depth: 4.5 ft Date: 10/15/25	Location ID: SS4-A Sample Name: 20251014-SS4-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS4-B Sample Name: 20251014-SS4-B Depth: 6 - 12 in Date: 10/14/25	Location ID: SS5-A Sample Name: 20251014-SS5-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS5-B Sample Name: 20251014-SS5-B Depth: 6 - 12 in Date: 10/14/25
1,1,1-Trichloroethane (TCA)	*0.68*	*500*	*0.68*		0.00038 U	0.00032 U	0.00072 U	0.0004 U	0.00034 U
1,1,2,2-Tetrachloroethane	*NS*	*NS*	*NS*		0.00049 U	0.00042 U	0.00092 U	0.00051 U	0.00044 U
1,1,2-Trichloro-1,2,2-trifluoroethane	*NS*	*NS*	*NS*		0.00062 U	0.00053 U	0.0012 U	0.00065 U	0.00056 U
1,1,2-Trichloroethane	*NS*	*NS*	*NS*		0.00029 U	0.00025 U	0.00055 U	0.00031 U	0.00026 U
1,1-Dichloroethane	*0.27*	*240*	*0.27*		0.00033 U	0.00028 U	0.00063 U	0.00035 U	0.0003 U
1,1-Dichloroethene	*0.24*	*5.1*	*0.33*		0.00051 U	0.00044 U	0.00096 U	0.00054 U	0.00046 U
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*		0.00043 U	0.00037 UJ	0.00081 U	0.00045 U	0.00039 U
1,2,3-Trichloropropane	*NS*	*NS*	*NS*		0.00049 U	0.00042 U	0.00093 U	0.00051 U	0.00044 U
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*		0.00035 U	0.0003 U	0.00067 U	0.00037 U	0.00032 U
1,2,4-Trimethylbenzene	*5.9*	*500*	*5.9*		0.00046 U	0.00039 U	0.00086 U	0.00048 U	0.00041 U
1,2-Dibromo-3-chloropropane	*NS*	*NS*	*NS*		0.00045 U	0.00039 U	0.00085 U	0.00047 U	0.00041 U
1,2-Dibromoethane (Ethylene Dibromide)	*NS*	*NS*	*NS*		0.00038 U	0.00033 U	0.00073 U	0.0004 U	0.00035 U
1,2-Dichlorobenzene	*1.1*	*500*	*1.1*		0.00033 U	0.00029 U	0.00063 U	0.00035 U	0.0003 U
1,2-Dichloroethane	*0.02*	*30*	*0.02*		0.00038 U	0.00032 U	0.00071 U	0.0004 U	0.00034 U
1,2-Dichloropropane	*NS*	*NS*	*NS*		0.00035 U	0.0003 U	0.00066 U	0.00036 U	0.00031 U
1,3,5-Trimethylbenzene (Mesitylene)	*3.1*	*500*	*3.1*		0.00039 U	0.00034 U	0.00074 U	0.00041 U	0.00035 U
1,3-Dichlorobenzene	*2.6*	*280*	*2.6*		0.00032 U	0.00028 U	0.00061 U	0.00034 U	0.00029 U
1,4-Dichlorobenzene	*1.8*	*130*	*1.8*		0.00032 U	0.00028 U	0.00061 U	0.00034 U	0.00029 U
2-Hexanone	*NS*	*NS*	*NS*		0.0042 UJ	0.0036 UJ	0.008 U	0.0044 U	0.0038 U
2-Methoxy-2-methylbutane	*NS*	*NS*	*NS*		0.0005 U	0.00043 U	0.00094 U	0.00052 U	0.00045 U
2-Methyl-2-butanol	*NS*	*NS*	*NS*		0.0023 U	0.002 UJ	0.0044 UJ	0.0024 UJ	0.0021 U
Acetone	*0.03*	*500*	*0.03*		0.0071 UJ	**0.0098 J**	0.013 UJ	0.0075 UJ	**0.020 J**
Benzene	*0.06*	*20*	*0.06*		0.00038 U	0.00033 U	0.00073 U	0.0004 U	0.00035 U
Bromochloromethane	*NS*	*NS*	*NS*		0.00053 U	0.00046 U	0.001 U	0.00056 U	0.00048 U
Bromodichloromethane	*NS*	*NS*	*NS*		0.00037 U	0.00031 U	0.00069 U	0.00038 U	0.00033 U
Bromoform	*NS*	*NS*	*NS*		0.00062 U	0.00053 U	0.0012 U	0.00065 U	0.00056 U
Bromomethane	*NS*	*NS*	*NS*		0.00083 U	0.00071 U	0.0016 U	0.00087 U	0.00075 U
Carbon Disulfide	*NS*	*NS*	*NS*		0.0066 U	0.0056 U	0.012 U	0.0069 U	0.0059 U
Carbon Tetrachloride	*0.76*	*41*	*0.76*		0.00043 U	0.00037 U	0.00082 U	0.00046 U	0.00039 U
Chlorobenzene	*4.5*	*500*	*4.5*		0.00037 U	0.00031 U	0.00069 U	0.00039 U	0.00033 U
Chloroethane	*NS*	*NS*	*NS*		0.00077 U	0.00066 U	0.0014 U	0.00081 U	0.00069 U
Chloroform	*0.37*	*180*	*0.37*		0.00036 U	0.0003 U	0.00067 U	0.00037 U	0.00032 U
Chloromethane (Methyl Chloride)	*NS*	*NS*	*NS*		0.00073 U	0.00062 U	0.0014 U	0.00077 U	0.00066 U
cis-1,2-Dichloroethene	*0.19*	*500*	*0.19*		0.00038 U	0.00032 U	0.00072 U	0.0004 U	**0.00078 J**
cis-1,3-Dichloropropene	*NS*	*NS*	*NS*		0.00047 U	0.0004 U	0.00088 U	0.00049 U	0.00042 U
Cyclohexane	*NS*	*NS*	*NS*		0.0022 U	0.0019 U	0.0042 U	0.0023 U	0.002 U
Cymene (4-Isopropyltoluene)	*NS*	*NS*	*NS*		0.00033 UJ	0.00028 UJ	0.00063 UJ	0.00035 UJ	0.0003 UJ
Dibromochloromethane	*NS*	*NS*	*NS*		0.00049 U	0.00042 U	0.00093 U	0.00051 U	0.00044 U
Dichlorodifluoromethane	*NS*	*NS*	*NS*		0.00061 U	0.00052 U	0.0012 U	0.00064 U	0.00055 U

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SB3-C Sample Name: 20251015-SB3-C Depth: 4.5 ft Date: 10/15/25	Location ID: SS4-A Sample Name: 20251014-SS4-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS4-B Sample Name: 20251014-SS4-B Depth: 6 - 12 in Date: 10/14/25	Location ID: SS5-A Sample Name: 20251014-SS5-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS5-B Sample Name: 20251014-SS5-B Depth: 6 - 12 in Date: 10/14/25
Ethanol	*NS*	*NS*	*NS*		0.022 UJ	0.019 UJ	0.041 UJ	0.023 UJ	0.02 UJ
Ethyl tert-Amyl Ether	*NS*	*NS*	*NS*		0.00035 U	0.0003 U	0.00067 U	0.00037 U	0.00032 U
Ethyl tert-Butyl Ether	*NS*	*NS*	*NS*		0.00042 U	0.00036 U	0.0008 U	0.00044 U	0.00038 U
Ethylbenzene	*1*	*390*	*1*		0.0003 U	0.00025 U	0.00056 U	0.00031 U	0.00027 U
Isopropyl Ether	*NS*	*NS*	*NS*		0.0005 U	0.00042 U	0.00094 U	0.00052 U	0.00045 U
Isopropylbenzene (Cumene)	*NS*	*NS*	*NS*		0.00035 U	0.0003 U	0.00066 U	0.00036 U	0.00031 U
m,p-Xylene	*0.26*	*NS*	*NS*		0.00057 U	0.00049 U	0.0011 U	0.0006 U	0.00052 U
Methyl Acetate	*NS*	*NS*	*NS*		0.00071 UJ	**0.0037 J**	0.0013 UJ	0.00075 UJ	**0.0040 J**
Methyl Ethyl Ketone (2-Butanone)	*0.1*	*500*	*0.1*		0.0047 UJ	0.004 UJ	0.0088 U	0.0049 U	0.0042 U
Methyl Isobutyl Ketone (4-Methyl-2-pentanone)	*NS*	*NS*	*NS*		0.0052 U	0.0045 UJ	0.0099 U	0.0055 U	0.0047 U
Methylcyclohexane	*NS*	*NS*	*NS*		0.00038 U	0.00032 U	0.00071 U	0.0004 U	0.00034 U
Methylene Chloride	*0.05*	*500*	*0.05*		0.00038 U	0.00033 U	0.00072 U	0.0004 U	0.00034 U
Naphthalene	*12*	*500*	*12*		0.00054 UJ	0.00047 UJ	0.001 UJ	0.00057 UJ	0.00049 U
n-Butylbenzene	*18*	*500*	*18*		0.00037 U	0.00031 U	0.00069 U	0.00038 U	0.00033 U
n-Propylbenzene	*5*	*500*	*5*		0.00035 U	0.0003 U	0.00067 U	0.00037 U	0.00032 U
o-Xylene	*0.26*	*NS*	*NS*		0.00032 U	0.00028 U	0.00061 U	0.00034 U	0.00029 U
sec-Butylbenzene	*25*	*500*	*25*		0.0004 UJ	0.00034 UJ	0.00075 UJ	0.00042 UJ	0.00036 UJ
Styrene	*NS*	*NS*	*NS*		0.00034 U	0.00029 U	0.00065 U	0.00036 U	0.00031 U
T-Butylbenzene	*11*	*500*	*11*		0.00036 U	0.00031 U	0.00068 U	0.00038 U	0.00032 U
tert-Butyl Alcohol	*NS*	*NS*	*NS*		0.02 U	0.017 UJ	0.037 U	0.021 U	0.018 U
tert-Butyl Methyl Ether	*0.1*	*500*	*0.1*		0.00043 U	0.00037 U	0.00081 U	0.00045 U	0.00039 U
Tetrachloroethene (PCE)	*1.3*	*81*	*1.3*		**0.0048**	**0.00039 J**	0.00085 U	**0.0010 J**	**0.010**
Toluene	*0.7*	*500*	*0.7*		0.0003 U	**0.0012**	0.00056 U	**0.00032 J**	**0.0010**
trans-1,2-Dichloroethene	*0.19*	*500*	*0.19*		0.00034 U	0.00029 U	0.00064 U	0.00036 U	0.00031 U
trans-1,3-Dichloropropene	*NS*	*NS*	*NS*		0.00043 U	0.00037 U	0.00082 U	0.00046 U	0.00039 U
Trichloroethene (TCE)	*0.47*	*54*	*0.47*		0.00035 U	0.0003 U	0.00066 U	0.00037 U	**0.00094 J**
Trichlorofluoromethane	*NS*	*NS*	*NS*		0.00072 U	0.00062 U	0.0014 U	0.00076 U	0.00065 U
Vinyl Chloride	*0.03*	*7.1*	*0.03*		0.00044 UJ	0.00037 U	0.00083 U	0.00046 U	0.0004 UJ
Xylenes	*0.26*	*500*	*1.2*		0.0011 U	0.00093 U	0.002 U	0.0011 U	0.00098 U
Semivolatile Organic Compounds by Method 8270E (mg/kg)									
1,2,4,5-Tetrachlorobenzene	*NS*	*NS*	*NS*		--	0.036 U	--	0.04 U	--
1-Methylnaphthalene	*NS*	*NS*	*NS*		--	0.0046 U	--	0.0051 U	--
2,3,4,6-Tetrachlorophenol	*NS*	*NS*	*NS*		--	0.053 U	--	0.058 U	--
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*		--	0.038 U	--	0.042 U	--
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*		--	0.033 U	--	0.036 U	--
2,4-Dichlorophenol	*NS*	*NS*	*NS*		--	0.035 U	--	0.039 U	--
2,4-Dimethylphenol	*NS*	*NS*	*NS*		--	0.077 U	--	0.086 U	--
2,4-Dinitrophenol	*NS*	*NS*	*NS*		--	0.35 U	--	0.39 U	--
2,4-Dinitrotoluene	*NS*	*NS*	*NS*		--	0.088 UJ	--	0.098 UJ	--

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SB3-C Sample Name: 20251015-SB3-C Depth: 4.5 ft Date: 10/15/25	SS4-A 20251014-SS4-A 0 - 6 in 10/14/25	SS4-B 20251014-SS4-B 6 - 12 in 10/14/25	SS5-A 20251014-SS5-A 0 - 6 in 10/14/25	SS5-B 20251014-SS5-B 6 - 12 in 10/14/25
2,6-Dinitrotoluene	*NS*	*NS*	*NS*		–	0.047 U	--	0.052 U	--
2-Chloronaphthalene	*NS*	*NS*	*NS*		–	0.033 U	--	0.036 U	--
2-Chlorophenol	*NS*	*NS*	*NS*		–	0.033 U	--	0.036 U	--
2-Methylnaphthalene	*NS*	*NS*	*NS*		–	0.0042 U	--	0.0046 U	--
2-Methylphenol (o-Cresol)	*NS*	*NS*	*NS*		–	0.047 U	--	0.052 U	--
2-Nitroaniline	*NS*	*NS*	*NS*		–	0.057 U	--	0.064 U	--
2-Nitrophenol	*NS*	*NS*	*NS*		–	0.038 U	--	0.043 U	--
3- And 4- Methylphenol (Total)	*NS*	*NS*	*NS*		–	0.061 U	--	0.068 U	--
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*		–	0.067 U	--	0.074 U	--
3-Nitroaniline	*NS*	*NS*	*NS*		–	0.049 U	--	0.054 U	--
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*		–	0.31 U	--	0.34 U	--
4-Bromophenyl Phenyl Ether	*NS*	*NS*	*NS*		–	0.033 U	--	0.037 U	--
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*		–	0.039 U	--	0.044 U	--
4-Chloroaniline	*NS*	*NS*	*NS*		–	0.06 UJ	--	0.067 UJ	--
4-Chlorophenyl Phenyl Ether	*NS*	*NS*	*NS*		–	0.034 U	--	0.038 U	--
4-Nitroaniline	*NS*	*NS*	*NS*		–	0.053 U	--	0.059 U	--
4-Nitrophenol	*NS*	*NS*	*NS*		–	0.15 UJ	--	0.16 UJ	--
Acenaphthene	*20*	*500*	*98*		–	0.0041 U	--	0.0045 U	--
Acenaphthylene	*100*	*500*	*365*		–	0.0046 U	--	0.0051 U	--
Acetophenone	*NS*	*NS*	*NS*		–	0.039 U	--	0.043 U	--
Aniline	*0.04*	*36*	*0.04*		–	0.07 UJ	--	0.078 U	--
Anthracene	*100*	*500*	*1000*		–	0.0042 U	--	**0.011 J**	--
Atrazine	*NS*	*NS*	*NS*		–	0.051 U	--	0.057 U	--
Benzaldehyde	*NS*	*NS*	*NS*		–	0.052 UJ	--	0.057 UJ	--
Benzo(a)anthracene	*1*	*37*	*1*		–	**0.020 J**	--	**0.052**	--
Benzo(a)pyrene	*1*	*3.7*	*22*		–	**0.023 J**	--	**0.057**	--
Benzo(b)fluoranthene	*1*	*37*	*2.1*		–	**0.035 J**	--	**0.096**	--
Benzo(g,h,i)perylene	*0.64*	*47*	*1000*		–	**0.021 J**	--	**0.054**	--
Benzo(k)fluoranthene	*0.8*	*47*	*2*		–	**0.013 J**	--	**0.035 J**	--
Benzyl Butyl Phthalate	*NS*	*NS*	*NS*		–	0.042 U	--	0.047 U	--
Biphenyl (Diphenyl or 1,1'-Biphenyl)	*NS*	*NS*	*NS*		–	0.042 U	--	0.047 U	--
Bis(2-chloroethoxy) Methane	*NS*	*NS*	*NS*		–	0.038 U	--	0.042 U	--
Bis(2-chloroethyl) Ether (2-Chloroethyl Ether)	*NS*	*NS*	*NS*		–	0.049 U	--	0.055 U	--
Bis(2-chloroisopropyl) Ether	*NS*	*NS*	*NS*		–	0.15 U	--	0.17 U	--
Bis(2-ethylhexyl) Phthalate	*NS*	*NS*	*NS*		–	**0.056 J**	--	**0.075 J**	--
Caprolactam	*NS*	*NS*	*NS*		–	0.065 U	--	0.072 U	--
Carbazole	*NS*	*NS*	*NS*		–	0.038 U	--	0.043 U	--
Chrysene	*1*	*47*	*1*		–	**0.025 J**	--	**0.070**	--
Dibenz(a,h)anthracene	*0.33*	*3.7*	*1000*		–	0.016 U	--	0.018 U	--

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID:	SB3-C	SS4-A	SS4-B	SS5-A	SS5-B
					Sample Name:	20251015-SB3-C	20251014-SS4-A	20251014-SS4-B	20251014-SS5-A	20251014-SS5-B
					Depth:	4.5 ft	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in
					Date:	10/15/25	10/14/25	10/14/25	10/14/25	10/14/25
Dibenzofuran	*2.1*	*180*	*110*		–	0.036 U	--	0.041 U	--
Diethyl Phthalate	*NS*	*NS*	*NS*		–	0.036 U	--	0.04 U	--
Dimethyl Phthalate	*NS*	*NS*	*NS*		–	0.033 U	--	0.037 U	--
Di-N-Butyl Phthalate	*NS*	*NS*	*NS*		–	0.14 U	--	0.16 U	--
Di-N-Octylphthalate	*NS*	*NS*	*NS*		–	0.055 U	--	0.061 U	--
Fluoranthene	*85*	*500*	*1000*		–	**0.047**	--	**0.11**	--
Fluorene	*30*	*500*	*386*		–	0.0044 U	--	0.0049 U	--
Hexachlorobenzene	*0.33*	*1.8*	*3.2*		–	0.038 U	--	0.042 U	--
Hexachlorobutadiene	*NS*	*NS*	*NS*		–	0.038 U	--	0.043 U	--
Hexachlorocyclopentadiene	*NS*	*NS*	*NS*		–	0.19 UJ	--	0.21 UJ	--
Hexachloroethane	*NS*	*NS*	*NS*		–	0.034 U	--	0.037 U	--
Indeno(1,2,3-c,d)pyrene	*0.5*	*37*	*6.6*		–	**0.021 J**	--	**0.057**	--
Isophorone	*NS*	*NS*	*NS*		–	0.04 U	--	0.044 U	--
Naphthalene	*12*	*500*	*12*		–	0.0053 U	--	0.0059 U	--
Nitrobenzene	*0.08*	*8.9*	*0.08*		–	0.042 U	--	0.047 U	--
N-Nitrosodi-N-propylamine	*NS*	*NS*	*NS*		–	0.046 U	--	0.051 U	--
N-Nitrosodiphenylamine	*NS*	*NS*	*NS*		–	0.048 U	--	0.054 U	--
Pentachlorophenol	*0.8*	*6.9*	*0.8*		–	0.048 U	--	0.053 U	--
Phenanthrene	*1.1*	*47*	*1000*		–	**0.016 J**	--	**0.047**	--
Phenol	*0.33*	*500*	*0.33*		–	0.035 U	--	0.039 U	--
Pyrene	*64*	*500*	*1000*		–	**0.036**	--	**0.10**	--
Pyridine	*NS*	*NS*	*NS*		–	0.047 UJ	--	0.053 U	--
Semivolatile Organic Compounds by Method SW8270DSIM (mg/kg)										
1,4-Dioxane	*0.1*	*36*	*0.1*		–	0.022 U	--	0.025 U	--
Organochlorine Pesticides by Method 8081B (mg/kg)										
Aldrin	*0.0048*	*0.33*	*0.19*		–	0.0029 U	--	0.0033 U	--
Alpha BHC (Alpha Hexachlorocyclohexane)	*0.02*	*1.2*	*0.02*		–	0.011 U	--	0.012 U	--
Alpha Endosulfan	*4.3*	*360*	*65*		–	0.0096 U	--	0.011 U	--
Beta BHC (Beta Hexachlorocyclohexane)	*0.021*	*1.8*	*0.09*		–	0.014 U	--	0.016 U	--
Beta Endosulfan	*4.3*	*360*	*44*		–	0.009 U	--	0.01 U	--
cis-Chlordane	*0.014*	*8.2*	*4.5*		–	**0.070 J**	--	**0.028 J**	--
Delta BHC (Delta Hexachlorocyclohexane)	*0.04*	*500*	*0.1*		–	0.011 U	--	0.012 U	--
Dieldrin	*0.005*	*0.48*	*0.1*		–	0.0031 U	--	0.0035 U	--
Endosulfan Sulfate	*4.3*	*360*	*47*		–	0.0089 U	--	0.0099 U	--
Endrin	*0.014*	*55*	*0.06*		–	0.011 U	--	0.013 U	--
Endrin Aldehyde	*NS*	*NS*	*NS*		–	0.011 U	--	0.012 U	--
Endrin Ketone	*NS*	*NS*	*NS*		–	0.0091 U	--	0.01 U	--
Gamma BHC (Lindane)	*0.025*	*0.21*	*0.05*		–	0.0034 U	--	0.0038 U	--
Heptachlor	*0.013*	*5.1*	*0.38*		–	0.012 U	--	0.013 U	--

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SB3-C Sample Name: 20251015-SB3-C Depth: 4.5 ft Date: 10/15/25	SS4-A 20251014-SS4-A 0 - 6 in 10/14/25	SS4-B 20251014-SS4-B 6 - 12 in 10/14/25	SS5-A 20251014-SS5-A 0 - 6 in 10/14/25	SS5-B 20251014-SS5-B 6 - 12 in 10/14/25
Heptachlor Epoxide	*NS*	*NS*	*NS*		–	0.011 U	--	0.011 U	--
Methoxychlor	*NS*	*NS*	*NS*		–	0.059 U	--	0.066 U	--
4,4'-DDD	*0.0033*	*33*	*14*		–	0.0035 U	--	0.0039 U	--
4,4'-DDE	*0.0033*	*22*	*9.3*		–	**0.0029 J**	--	0.0032 U	--
4,4'-DDT	*0.0033*	*27*	*135*		–	**0.013 J**	--	**0.0047 J**	--
Toxaphene	*NS*	*NS*	*NS*		–	0.24 U	--	0.27 U	--
trans-Chlordane	*NS*	*NS*	*NS*		–	**0.068**	--	**0.028 J**	--
Polychlorinated Biphenyls (PCBs) by Method 8082A (mg/kg)									
PCB-1016 (Aroclor 1016)	*0.1*	*1*	*3.2*		–	0.023 U	--	0.026 U	--
PCB-1221 (Aroclor 1221)	*0.1*	*1*	*3.2*		–	0.04 UJ	--	0.045 UJ	--
PCB-1232 (Aroclor 1232)	*0.1*	*1*	*3.2*		–	0.023 U	--	0.025 U	--
PCB-1242 (Aroclor 1242)	*0.1*	*1*	*3.2*		–	0.024 UJ	--	0.027 UJ	--
PCB-1248 (Aroclor 1248)	*0.1*	*1*	*3.2*		–	0.033 U	--	0.036 U	--
PCB-1254 (Aroclor 1254)	*0.1*	*1*	*3.2*		–	0.038 U	--	0.043 U	--
PCB-1260 (Aroclor 1260)	*0.1*	*1*	*3.2*		–	0.022 U	--	0.025 U	--
PCB-1262 (Aroclor 1262)	*0.1*	*1*	*3.2*		–	0.03 U	--	0.033 U	--
PCB-1268 (Aroclor 1268)	*0.1*	*1*	*3.2*		–	0.023 UJ	--	0.025 UJ	--
Per- and Polyfluoroalkyl Substances (PFAS) by Method E1633 (ug/kg)									
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid	*NS*	*NS*	*NS*		–	0.259 U	--	0.263 U	--
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	*NS*	*NS*	*NS*		–	0.359 U	--	0.365 U	--
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	*NS*	*NS*	*NS*		–	0.289 U	--	0.294 U	--
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	*NS*	*NS*	*NS*		–	0.279 U	--	0.284 U	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	*NS*	*NS*	*NS*		–	0.694 U	--	0.705 U	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	*NS*	*NS*	*NS*		–	0.629 U	--	0.64 U	--
2H,2H,3H,3H-Perfluorooctanoic acid	*NS*	*NS*	*NS*		–	1.51 U	--	1.54 U	--
3-Perfluoroheptyl propanoic acid	*NS*	*NS*	*NS*		–	1.54 U	--	1.57 U	--
3-Perfluoropropyl propanoic acid	*NS*	*NS*	*NS*		–	0.478 UJ	--	0.486 U	--
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	*NS*	*NS*	*NS*		–	0.31 U	--	0.315 U	--
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic Acid	*NS*	*NS*	*NS*		–	0.227 U	--	0.231 U	--
Hexafluoropropylene oxide dimer acid (HFPO-DA)	*NS*	*NS*	*NS*		–	0.329 U	--	0.334 U	--
N-ethyl perfluoro-1-octanesulfonamide	*NS*	*NS*	*NS*		–	0.0874 U	--	0.0889 U	--
N-ethyl perfluorooctanesulfonamidoacetic acid	*NS*	*NS*	*NS*		–	**0.171 J**	--	**0.139 J**	--
N-methyl perfluoro-1-octanesulfonamide	*NS*	*NS*	*NS*		–	0.0575 U	--	0.0585 U	--
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	*NS*	*NS*	*NS*		–	**0.528**	--	**0.302**	--
Nonafluoro-3,6-dioxaheptanoic acid	*NS*	*NS*	*NS*		–	0.239 U	--	0.243 U	--
Perfluoro(2-ethoxyethane)sulfonic acid	*NS*	*NS*	*NS*		–	0.142 U	--	0.144 U	--
Perfluoro-3-methoxypropanoic acid	*NS*	*NS*	*NS*		–	0.0899 U	--	0.0914 U	--
Perfluoro-4-methoxybutanoic acid	*NS*	*NS*	*NS*		–	0.12 U	--	0.122 U	--
Perfluorobutanesulfonic acid (PFBS)	*NS*	*NS*	*NS*		–	**0.0662 J**	--	**0.0768 J**	--

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID:	SB3-C	SS4-A	SS4-B	SS5-A	SS5-B
					Sample Name:	20251015-SB3-C	20251014-SS4-A	20251014-SS4-B	20251014-SS5-A	20251014-SS5-B
					Depth:	4.5 ft	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in
					Date:	10/15/25	10/14/25	10/14/25	10/14/25	10/14/25
Perfluorobutanoic Acid	*NS*	*NS*	*NS*		--	0.268 U	--	--	0.272 U	--
Perfluorodecanesulfonic acid (PFDS)	*NS*	*NS*	*NS*		--	**0.0986 J**	--	**0.151 J**	--	
Perfluorodecanoic acid (PFDA)	*NS*	*NS*	*NS*		--	**3.07**	--	**1.98**	--	
Perfluorododecanesulfonic acid (PFDOS)	*NS*	*NS*	*NS*		--	0.0563 U	--	0.0572 U	--	
Perfluorododecanoic acid (PFDoA)	*NS*	*NS*	*NS*		--	**2.37**	--	**0.979**	--	
Perfluoroheptanesulfonic acid (PFHpS)	*NS*	*NS*	*NS*		--	0.102 U	--	0.104 U	--	
Perfluoroheptanoic acid (PFHpA)	*NS*	*NS*	*NS*		--	0.0807 U	--	**0.161 J**	--	
Perfluorohexanesulfonic acid (PFHxS)	*NS*	*NS*	*NS*		--	0.0735 U	--	0.0747 U	--	
Perfluorohexanoic acid (PFHxA)	*NS*	*NS*	*NS*		--	0.0797 U	--	**0.151 J**	--	
Perfluorononanesulfonic Acid (PFNS)	*NS*	*NS*	*NS*		--	0.0588 U	--	0.0598 U	--	
Perfluorononanoic acid (PFNA)	*NS*	*NS*	*NS*		--	**0.269**	--	**0.206**	--	
Perfluorooctane Sulfonamide (FOSA)	*NS*	*NS*	*NS*		--	**0.506 J**	--	**0.287**	--	
Perfluorooctanesulfonic acid (PFOS)	*0.88*	*440*	*1*		--	**1.74**	--	**2.14**	--	
Perfluorooctanoic acid (PFOA)	*0.66*	*500*	*0.8*		--	**0.548**	--	**0.572**	--	
Perfluoropentanesulfonic Acid (PFPeS)	*NS*	*NS*	*NS*		--	0.0629 U	--	0.0639 U	--	
Perfluoropentanoic Acid (PFPeA)	*NS*	*NS*	*NS*		--	0.122 U	--	**0.150 J**	--	
Perfluorotetradecanoic acid (PFTA)	*NS*	*NS*	*NS*		--	**0.711**	--	**0.357**	--	
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	*NS*	*NS*	*NS*		--	**0.523**	--	**0.203**	--	
Perfluoroundecanoic Acid (PFUnA)	*NS*	*NS*	*NS*		--	**2.03**	--	**0.608**	--	
Metals by Method SW6010D (mg/kg)										
Aluminum	*NS*	*NS*	*NS*		--	**3270**	--	**5630**	--	
Antimony	*NS*	*NS*	*NS*		--	3.24 U	--	3.78 U	--	
Arsenic	*13*	*16*	*16*		–	**2.03**	–	**2.26**	–	
Barium	*410*	*410*	*820*		–	**12.4**	–	**24.0**	–	
Beryllium	*4.4*	*670*	*47*		–	**0.121 J**	–	**0.210 J**	–	
Cadmium	*2.5*	*3.7*	*7.5*		–	**0.141 J**	–	**0.273 J**	–	
Calcium	*NS*	*NS*	*NS*		–	**324**	–	**1200**	–	
Chromium, Total	*30*	*1700*	*NS*		–	**5.87**	–	**7.46**	–	
Cobalt	*NS*	*NS*	*NS*		–	**1.45 J**	–	**2.14**	–	
Copper	*50*	*280*	*1720*		–	**17.2 J**	–	**26.3**	–	
Iron	*NS*	*NS*	*NS*		–	**4700**	–	**6420**	–	
Lead	*63*	*1000*	*450*		–	**20.1**	–	**94.7**	–	
Magnesium	*NS*	*NS*	*NS*		–	**392**	–	**850**	–	
Manganese	*1600*	*10000*	*2000*		–	**65.2**	–	**93.5**	–	
Nickel	*30*	*320*	*130*		–	**3.21**	–	**6.38**	–	
Potassium	*NS*	*NS*	*NS*		–	**108 J**	–	**187 J**	–	
Selenium	*3.9*	*1700*	*4*		–	0.276 U	–	0.323 U	–	
Silver	*2*	*1700*	*8.3*		–	0.25 U	–	0.292 U	–	
Sodium	*NS*	*NS*	*NS*		–	89.1 U	–	104 U	–	

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SB3-C Sample Name: 20251015-SB3-C Depth: 4.5 ft Date: 10/15/25	Location ID: SS4-A Sample Name: 20251014-SS4-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS4-B Sample Name: 20251014-SS4-B Depth: 6 - 12 in Date: 10/14/25	Location ID: SS5-A Sample Name: 20251014-SS5-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS5-B Sample Name: 20251014-SS5-B Depth: 6 - 12 in Date: 10/14/25
Thallium	*NS*	*NS*	*NS*		--	0.758 U	--	0.885 U	--
Vanadium	*NS*	*NS*	*NS*		--	**6.69**	--	**10.6**	--
Zinc	*109*	*10000*	*2480*		--	**42.5**	--	**84.8**	--
Mercury by Method SW7471B (mg/kg)									
Mercury	*0.18*	*1.1*	*0.73*		--	**0.117**	--	0.061 U	--
Cyanide by Method SW9014 (mg/kg)									
Cyanide	*2.3*	*28*	*40*		--	0.49 U	--	0.51 U	--
Total Solids by Method SM2540G (%)									
Percent Solids	*NS*	*NS*	*NS*		**96.9**	**90.4**	**82.5**	**81.5**	**87.3**

Key:

Qualifiers

J = Estimated value

J- = Estimated value, biased low

U = Not Detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Notes

NS = No established standard or guidance value

-- = Not analyzed

Other

µg/kg = Micrograms per kilogram

mg/kg = miligrams per kilogram

ft = feet

in = inches

Bold values denote positive detections.	**1**
Exceeds Unrestricted Soil Cleanup Objective	**10**
Exceeds Unrestricted and Protection of Groundwater Soil Cleanup Objective	**100**
Exceeds All Soil Cleanup Objective	**100**

1. New York State Department of Environmental Conservation, Codes, Rules, and Regulations Part 375-6.8(a): *Unrestricted Use Soil Cleanup Objectives* 1998 (with updates)

2. New York State Department of Environmental Conservation, Codes, Rules, and Regulations Part 375-6.8(b): *Restricted Use Soil Cleanup Objectives* 1998 (with updates), Commercial Protection of Public Health

3. New York State Department of Environmental Conservation, Codes, Rules, and Regulations Part 375-6.8(b): *Restricted Use Soil Cleanup Objectives* 1998 (with updates), Protection of Groundwater

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS6-A Sample Name: 20251014-SS6-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS6-B Sample Name: 20251014-SS6-B Depth: 6 - 12 in Date: 10/14/25	Location ID: SS7-A Sample Name: 20251014-SS7-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS7-B Sample Name: 20251014-SS7-B Depth: 6 - 12 in Date: 10/14/25
1,1,1-Trichloroethane (TCA)	*0.68*	*500*	*0.68*		0.00047 U	0.00037 U	0.00048 U	0.00047 U
1,1,2,2-Tetrachloroethane	*NS*	*NS*	*NS*		0.0006 U	0.00047 U	0.00062 U	0.0006 U
1,1,2-Trichloro-1,2,2-trifluoroethane	*NS*	*NS*	*NS*		0.00077 U	0.0006 U	0.00079 U	0.00076 U
1,1,2-Trichloroethane	*NS*	*NS*	*NS*		0.00036 U	0.00028 U	0.00037 U	0.00036 U
1,1-Dichloroethane	*0.27*	*240*	*0.27*		0.00041 U	0.00032 U	0.00042 U	0.00041 U
1,1-Dichloroethene	*0.24*	*5.1*	*0.33*		0.00063 U	0.00049 U	0.00065 U	0.00063 U
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*		0.00053 U	0.00041 U	0.00054 U	0.00053 U
1,2,3-Trichloropropane	*NS*	*NS*	*NS*		0.00061 U	0.00047 U	0.00062 U	0.0006 U
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*		0.00044 U	0.00034 U	0.00045 U	0.00044 U
1,2,4-Trimethylbenzene	*5.9*	*500*	*5.9*		0.00056 U	0.00044 U	0.00058 U	0.00056 U
1,2-Dibromo-3-chloropropane	*NS*	*NS*	*NS*		0.00056 U	0.00044 U	0.00057 U	0.00055 U
1,2-Dibromoethane (Ethylene Dibromide)	*NS*	*NS*	*NS*		0.00048 U	0.00037 U	0.00049 U	0.00047 U
1,2-Dichlorobenzene	*1.1*	*500*	*1.1*		0.00041 U	0.00032 U	0.00042 U	0.00041 U
1,2-Dichloroethane	*0.02*	*30*	*0.02*		0.00047 U	0.00037 U	0.00048 U	0.00047 U
1,2-Dichloropropane	*NS*	*NS*	*NS*		0.00043 U	0.00034 U	0.00044 U	0.00043 U
1,3,5-Trimethylbenzene (Mesitylene)	*3.1*	*500*	*3.1*		0.00049 U	0.00038 U	0.0005 U	0.00048 U
1,3-Dichlorobenzene	*2.6*	*280*	*2.6*		0.0004 U	0.00031 U	0.00041 U	0.0004 U
1,4-Dichlorobenzene	*1.8*	*130*	*1.8*		0.0004 U	0.00031 U	0.00041 U	0.0004 U
2-Hexanone	*NS*	*NS*	*NS*		0.0052 U	0.0041 U	0.0054 U	0.0052 U
2-Methoxy-2-methylbutane	*NS*	*NS*	*NS*		0.00062 U	0.00048 U	0.00064 U	0.00062 U
2-Methyl-2-butanol	*NS*	*NS*	*NS*		0.0029 UJ	0.0022 UJ	0.0029 UJ	0.0028 UJ
Acetone	*0.03*	*500*	*0.03*		0.0088 UJ	**0.0090 J**	**0.0096 J**	**0.013 J**
Benzene	*0.06*	*20*	*0.06*		0.00048 U	0.00037 U	0.00049 U	0.00047 U
Bromochloromethane	*NS*	*NS*	*NS*		0.00066 U	0.00051 U	0.00068 U	0.00066 U
Bromodichloromethane	*NS*	*NS*	*NS*		0.00045 U	0.00035 U	0.00047 U	0.00045 U
Bromoform	*NS*	*NS*	*NS*		0.00077 U	0.0006 U	0.00079 U	0.00076 U
Bromomethane	*NS*	*NS*	*NS*		0.001 U	0.0008 U	0.0011 U	0.001 U
Carbon Disulfide	*NS*	*NS*	*NS*		0.0082 U	0.0064 U	0.0084 U	0.0081 U
Carbon Tetrachloride	*0.76*	*41*	*0.76*		0.00054 U	0.00042 U	0.00055 U	0.00053 U
Chlorobenzene	*4.5*	*500*	*4.5*		0.00045 U	0.00036 U	0.00047 U	0.00045 U
Chloroethane	*NS*	*NS*	*NS*		0.00095 U	0.00074 U	0.00098 U	0.00094 U
Chloroform	*0.37*	*180*	*0.37*		0.00044 U	0.00034 U	0.00045 U	0.00044 U
Chloromethane (Methyl Chloride)	*NS*	*NS*	*NS*		0.0009 U	0.00071 U	0.00093 U	0.0009 U
cis-1,2-Dichloroethene	*0.19*	*500*	*0.19*		0.00047 U	0.00037 U	0.00048 U	0.00047 U
cis-1,3-Dichloropropene	*NS*	*NS*	*NS*		0.00058 U	0.00045 U	0.00059 U	0.00058 U
Cyclohexane	*NS*	*NS*	*NS*		0.0027 U	0.0021 U	0.0028 U	0.0027 U
Cymene (4-Isopropyltoluene)	*NS*	*NS*	*NS*		0.00041 UJ	0.00032 UJ	0.00042 UJ	0.00041 UJ
Dibromochloromethane	*NS*	*NS*	*NS*		0.00061 U	0.00047 U	0.00062 U	0.0006 U
Dichlorodifluoromethane	*NS*	*NS*	*NS*		0.00076 U	0.00059 U	0.00078 U	0.00075 U

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS6-A Sample Name: 20251014-SS6-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS6-B Sample Name: 20251014-SS6-B Depth: 6 - 12 in Date: 10/14/25	Location ID: SS7-A Sample Name: 20251014-SS7-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS7-B Sample Name: 20251014-SS7-B Depth: 6 - 12 in Date: 10/14/25
Ethanol	*NS*	*NS*	*NS*		0.027 UJ	0.021 UJ	0.028 UJ	0.027 UJ
Ethyl tert-Amyl Ether	*NS*	*NS*	*NS*		0.00044 U	0.00034 U	0.00045 U	0.00043 U
Ethyl tert-Butyl Ether	*NS*	*NS*	*NS*		0.00052 U	0.00041 U	0.00054 U	0.00052 U
Ethylbenzene	*1*	*390*	*1*		0.00037 U	0.00029 U	0.00038 U	0.00036 U
Isopropyl Ether	*NS*	*NS*	*NS*		0.00061 U	0.00048 U	0.00063 U	0.00061 U
Isopropylbenzene (Cumene)	*NS*	*NS*	*NS*		0.00043 U	0.00034 U	0.00044 U	0.00043 U
m,p-Xylene	*0.26*	*NS*	*NS*		0.00071 U	0.00056 U	0.00073 U	0.00071 U
Methyl Acetate	*NS*	*NS*	*NS*		**0.0070 J**	0.00069 UJ	0.0009 UJ	0.00087 UJ
Methyl Ethyl Ketone (2-Butanone)	*0.1*	*500*	*0.1*		0.0058 U	0.0045 U	0.006 U	0.0058 U
Methyl Isobutyl Ketone (4-Methyl-2-pentanone)	*NS*	*NS*	*NS*		0.0065 U	0.0051 U	0.0067 U	0.0064 U
Methylcyclohexane	*NS*	*NS*	*NS*		0.00047 U	0.00036 U	0.00048 U	0.00046 U
Methylene Chloride	*0.05*	*500*	*0.05*		0.00047 U	0.00037 U	0.00048 U	0.00047 U
Naphthalene	*12*	*500*	*12*		0.00068 UJ	0.00053 UJ	0.00069 UJ	0.00067 UJ
n-Butylbenzene	*18*	*500*	*18*		0.00045 U	0.00035 U	0.00047 U	0.00045 U
n-Propylbenzene	*5*	*500*	*5*		0.00044 U	0.00034 U	0.00045 U	0.00044 U
o-Xylene	*0.26*	*NS*	*NS*		0.0004 U	0.00031 U	0.00041 U	0.0004 U
sec-Butylbenzene	*25*	*500*	*25*		0.00049 UJ	0.00038 UJ	0.00051 UJ	0.00049 UJ
Styrene	*NS*	*NS*	*NS*		0.00042 U	0.00033 U	0.00044 U	0.00042 U
T-Butylbenzene	*11*	*500*	*11*		0.00044 U	0.00035 U	0.00046 U	0.00044 U
tert-Butyl Alcohol	*NS*	*NS*	*NS*		0.024 U	0.019 U	0.025 U	0.024 U
tert-Butyl Methyl Ether	*0.1*	*500*	*0.1*		0.00053 U	0.00041 U	0.00055 U	0.00053 U
Tetrachloroethene (PCE)	*1.3*	*81*	*1.3*		**0.0057**	**0.0012**	**0.0059**	**0.0094**
Toluene	*0.7*	*500*	*0.7*		0.00037 U	0.00029 U	0.00038 U	0.00036 U
trans-1,2-Dichloroethene	*0.19*	*500*	*0.19*		0.00042 U	0.00033 U	0.00043 U	0.00042 U
trans-1,3-Dichloropropene	*NS*	*NS*	*NS*		0.00054 U	0.00042 U	0.00055 U	0.00053 U
Trichloroethene (TCE)	*0.47*	*54*	*0.47*		0.00043 U	0.00034 U	0.00044 U	0.00043 U
Trichlorofluoromethane	*NS*	*NS*	*NS*		0.00089 U	0.0007 U	0.00092 U	0.00089 U
Vinyl Chloride	*0.03*	*7.1*	*0.03*		0.00054 U	0.00042 U	0.00056 U	0.00054 U
Xylenes	*0.26*	*500*	*1.2*		0.0013 U	0.001 U	0.0014 U	0.0013 U
Semivolatile Organic Compounds by Method 8270E (mg/kg)								
1,2,4,5-Tetrachlorobenzene	*NS*	*NS*	*NS*		0.036 U	–	0.035 U	–
1-Methylnaphthalene	*NS*	*NS*	*NS*		0.0047 U	–	0.0046 U	–
2,3,4,6-Tetrachlorophenol	*NS*	*NS*	*NS*		0.053 U	–	0.052 U	–
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*		0.038 U	–	0.037 U	–
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*		0.033 U	–	0.032 U	–
2,4-Dichlorophenol	*NS*	*NS*	*NS*		0.036 U	–	0.034 U	–
2,4-Dimethylphenol	*NS*	*NS*	*NS*		0.078 U	–	0.076 U	–
2,4-Dinitrophenol	*NS*	*NS*	*NS*		0.36 U	–	0.34 U	–
2,4-Dinitrotoluene	*NS*	*NS*	*NS*		0.09 UJ	–	0.087 UJ	–

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS6-A Sample Name: 20251014-SS6-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS6-B Sample Name: 20251014-SS6-B Depth: 6 - 12 in Date: 10/14/25	Location ID: SS7-A Sample Name: 20251014-SS7-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS7-B Sample Name: 20251014-SS7-B Depth: 6 - 12 in Date: 10/14/25
2,6-Dinitrotoluene	*NS*	*NS*	*NS*		0.048 U	–	0.046 U	–
2-Chloronaphthalene	*NS*	*NS*	*NS*		0.033 U	–	0.032 U	–
2-Chlorophenol	*NS*	*NS*	*NS*		0.033 U	–	0.032 U	–
2-Methylnaphthalene	*NS*	*NS*	*NS*		0.0042 U	–	0.0041 U	–
2-Methylphenol (o-Cresol)	*NS*	*NS*	*NS*		0.048 U	–	0.046 U	–
2-Nitroaniline	*NS*	*NS*	*NS*		0.058 U	–	0.056 U	–
2-Nitrophenol	*NS*	*NS*	*NS*		0.039 U	–	0.038 U	–
3- And 4- Methylphenol (Total)	*NS*	*NS*	*NS*		0.062 U	–	0.06 U	–
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*		0.068 U	–	0.066 U	–
3-Nitroaniline	*NS*	*NS*	*NS*		0.049 U	–	0.048 U	–
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*		0.31 U	–	0.3 U	–
4-Bromophenyl Phenyl Ether	*NS*	*NS*	*NS*		0.033 U	–	0.032 U	–
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*		0.04 U	–	0.039 U	–
4-Chloroaniline	*NS*	*NS*	*NS*		0.061 UJ	–	0.059 UJ	–
4-Chlorophenyl Phenyl Ether	*NS*	*NS*	*NS*		0.035 U	–	0.034 U	–
4-Nitroaniline	*NS*	*NS*	*NS*		0.054 U	–	0.052 U	–
4-Nitrophenol	*NS*	*NS*	*NS*		0.15 UJ	–	0.14 UJ	–
Acenaphthene	*20*	*500*	*98*		0.0041 U	–	0.004 U	–
Acenaphthylene	*100*	*500*	*365*		0.0047 U	–	0.0046 U	–
Acetophenone	*NS*	*NS*	*NS*		0.04 U	–	0.039 U	–
Aniline	*0.04*	*36*	*0.04*		0.072 U	–	0.069 U	–
Anthracene	*100*	*500*	*1000*		**0.011 J**	–	0.0041 U	–
Atrazine	*NS*	*NS*	*NS*		0.052 U	–	0.05 U	–
Benzaldehyde	*NS*	*NS*	*NS*		0.053 UJ	–	0.051 UJ	–
Benzo(a)anthracene	*1*	*37*	*1*		**0.069**	–	**0.023 J**	–
Benzo(a)pyrene	*1*	*3.7*	*22*		**0.069**	–	**0.024 J**	–
Benzo(b)fluoranthene	*1*	*37*	*2.1*		**0.10**	–	**0.040**	–
Benzo(g,h,i)perylene	*0.64*	*47*	*1000*		**0.064**	–	**0.023 J**	–
Benzo(k)fluoranthene	*0.8*	*47*	*2*		**0.041**	–	**0.016 J**	–
Benzyl Butyl Phthalate	*NS*	*NS*	*NS*		0.043 U	–	0.042 U	–
Biphenyl (Diphenyl or 1,1'-Biphenyl)	*NS*	*NS*	*NS*		0.043 U	–	0.041 U	–
Bis(2-chloroethoxy) Methane	*NS*	*NS*	*NS*		0.038 U	–	0.037 U	–
Bis(2-chloroethyl) Ether (2-Chloroethyl Ether)	*NS*	*NS*	*NS*		0.05 U	–	0.049 U	–
Bis(2-chloroisopropyl) Ether	*NS*	*NS*	*NS*		0.15 U	–	0.15 U	–
Bis(2-ethylhexyl) Phthalate	*NS*	*NS*	*NS*		0.051 U	–	0.05 U	–
Caprolactam	*NS*	*NS*	*NS*		0.066 U	–	0.064 U	–
Carbazole	*NS*	*NS*	*NS*		0.039 U	–	0.038 U	–
Chrysene	*1*	*47*	*1*		**0.081**	–	**0.027 J**	–
Dibenz(a,h)anthracene	*0.33*	*3.7*	*1000*		0.017 U	–	0.016 U	–

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS6-A Sample Name: 20251014-SS6-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS6-B Sample Name: 20251014-SS6-B Depth: 6 - 12 in Date: 10/14/25	Location ID: SS7-A Sample Name: 20251014-SS7-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS7-B Sample Name: 20251014-SS7-B Depth: 6 - 12 in Date: 10/14/25
Dibenzofuran	*2.1*	*180*	*110*		0.037 U	–	0.036 U	–
Diethyl Phthalate	*NS*	*NS*	*NS*		0.037 U	–	0.036 U	–
Dimethyl Phthalate	*NS*	*NS*	*NS*		0.034 U	–	0.033 U	–
Di-N-Butyl Phthalate	*NS*	*NS*	*NS*		0.15 U	–	0.14 U	–
Di-N-Octylphthalate	*NS*	*NS*	*NS*		0.056 U	–	0.054 U	–
Fluoranthene	*85*	*500*	*1000*		**0.17**	–	**0.043**	–
Fluorene	*30*	*500*	*386*		0.0045 U	–	0.0043 U	–
Hexachlorobenzene	*0.33*	*1.8*	*3.2*		0.038 U	–	0.037 U	–
Hexachlorobutadiene	*NS*	*NS*	*NS*		0.039 U	–	0.038 U	–
Hexachlorocyclopentadiene	*NS*	*NS*	*NS*		0.19 UJ	–	0.18 UJ	–
Hexachloroethane	*NS*	*NS*	*NS*		0.034 U	–	0.033 U	–
Indeno(1,2,3-c,d)pyrene	*0.5*	*37*	*6.6*		**0.065**	–	**0.021 J**	–
Isophorone	*NS*	*NS*	*NS*		0.041 U	–	0.039 U	–
Naphthalene	*12*	*500*	*12*		0.0054 U	–	0.0052 U	–
Nitrobenzene	*0.08*	*8.9*	*0.08*		0.043 U	–	0.041 U	–
N-Nitrosodi-N-propylamine	*NS*	*NS*	*NS*		0.047 U	–	0.046 U	–
N-Nitrosodiphenylamine	*NS*	*NS*	*NS*		0.049 U	–	0.048 U	–
Pentachlorophenol	*0.8*	*6.9*	*0.8*		0.048 U	–	0.047 U	–
Phenanthrene	*1.1*	*47*	*1000*		**0.072**	–	**0.012 J**	–
Phenol	*0.33*	*500*	*0.33*		0.036 U	–	0.035 U	–
Pyrene	*64*	*500*	*1000*		**0.14**	–	**0.036**	–
Pyridine	*NS*	*NS*	*NS*		0.048 U	–	0.047 U	–
Semivolatile Organic Compounds by Method SW8270DSIM (mg/kg)								
1,4-Dioxane	*0.1*	*36*	*0.1*		0.023 U	–	0.022 U	–
Organochlorine Pesticides by Method 8081B (mg/kg)								
Aldrin	*0.0048*	*0.33*	*0.19*		0.00059 UJ	–	0.0029 U	–
Alpha BHC (Alpha Hexachlorocyclohexane)	*0.02*	*1.2*	*0.02*		0.0023 UJ	–	0.011 U	–
Alpha Endosulfan	*4.3*	*360*	*65*		0.0019 UJ	–	0.0094 U	–
Beta BHC (Beta Hexachlorocyclohexane)	*0.021*	*1.8*	*0.09*		0.0029 UJ	–	0.014 U	–
Beta Endosulfan	*4.3*	*360*	*44*		0.0018 UJ	–	0.0088 U	–
cis-Chlordane	*0.014*	*8.2*	*4.5*		**0.031 J-**	–	0.0091 U	–
Delta BHC (Delta Hexachlorocyclohexane)	*0.04*	*500*	*0.1*		0.0022 UJ	–	0.011 U	–
Dieldrin	*0.005*	*0.48*	*0.1*		**0.0012 J-**	–	0.003 U	–
Endosulfan Sulfate	*4.3*	*360*	*47*		0.0018 UJ	–	0.0087 U	–
Endrin	*0.014*	*55*	*0.06*		0.0023 UJ	–	0.011 U	–
Endrin Aldehyde	*NS*	*NS*	*NS*		0.0022 UJ	–	0.011 U	–
Endrin Ketone	*NS*	*NS*	*NS*		0.0018 UJ	–	0.0089 U	–
Gamma BHC (Lindane)	*0.025*	*0.21*	*0.05*		0.00069 UJ	–	0.0033 U	–
Heptachlor	*0.013*	*5.1*	*0.38*		0.0025 UJ	–	0.012 U	–

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS6-A Sample Name: 20251014-SS6-A Depth: 0 - 6 in Date: 10/14/25	SS6-B 20251014-SS6-B 6 - 12 in 10/14/25	SS7-A 20251014-SS7-A 0 - 6 in 10/14/25	SS7-B 20251014-SS7-B 6 - 12 in 10/14/25
Heptachlor Epoxide	*NS*	*NS*	*NS*		**0.0027 J-**	–	0.0097 U	–
Methoxychlor	*NS*	*NS*	*NS*		0.012 UJ	–	0.058 U	–
4,4'-DDD	*0.0033*	*33*	*14*		0.00072 UJ	–	0.0035 U	–
4,4'-DDE	*0.0033*	*22*	*9.3*		**0.0020 J-**	–	0.0029 U	–
4,4'-DDT	*0.0033*	*27*	*135*		**0.0065 J-**	–	**0.0038 J**	–
Toxaphene	*NS*	*NS*	*NS*		0.049 UJ	–	0.24 U	–
trans-Chlordane	*NS*	*NS*	*NS*		**0.029 J-**	–	0.0095 U	–
Polychlorinated Biphenyls (PCBs) by Method 8082A (mg/kg)								
PCB-1016 (Aroclor 1016)	*0.1*	*1*	*3.2*		0.024 U	–	0.023 U	–
PCB-1221 (Aroclor 1221)	*0.1*	*1*	*3.2*		0.041 UJ	–	0.04 UJ	–
PCB-1232 (Aroclor 1232)	*0.1*	*1*	*3.2*		0.023 U	–	0.022 U	–
PCB-1242 (Aroclor 1242)	*0.1*	*1*	*3.2*		0.025 UJ	–	0.024 UJ	–
PCB-1248 (Aroclor 1248)	*0.1*	*1*	*3.2*		0.033 U	–	0.032 U	–
PCB-1254 (Aroclor 1254)	*0.1*	*1*	*3.2*		0.039 U	–	0.038 U	–
PCB-1260 (Aroclor 1260)	*0.1*	*1*	*3.2*		0.023 U	–	0.024 U	–
PCB-1262 (Aroclor 1262)	*0.1*	*1*	*3.2*		0.031 U	–	0.029 U	–
PCB-1268 (Aroclor 1268)	*0.1*	*1*	*3.2*		0.023 UJ	–	0.022 UJ	–
Per- and Polyfluoroalkyl Substances (PFAS) by Method E1633 (ug/kg)								
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid	*NS*	*NS*	*NS*		0.262 U	–	0.263 U	–
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	*NS*	*NS*	*NS*		0.363 U	–	0.365 U	–
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	*NS*	*NS*	*NS*		0.292 U	–	0.293 U	–
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	*NS*	*NS*	*NS*		0.282 U	–	0.284 U	–
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	*NS*	*NS*	*NS*		0.7 U	–	0.705 U	–
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	*NS*	*NS*	*NS*		0.635 U	–	**0.700 J**	–
2H,2H,3H,3H-Perfluorooctanoic acid	*NS*	*NS*	*NS*		1.53 U	–	1.54 U	–
3-Perfluoroheptyl propanoic acid	*NS*	*NS*	*NS*		1.55 U	–	1.56 U	–
3-Perfluoropropyl propanoic acid	*NS*	*NS*	*NS*		0.483 U	–	0.486 U	–
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	*NS*	*NS*	*NS*		0.313 U	–	0.315 U	–
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic Acid	*NS*	*NS*	*NS*		0.229 U	–	0.231 U	–
Hexafluoropropylene oxide dimer acid (HFPO-DA)	*NS*	*NS*	*NS*		0.332 U	–	0.334 U	–
N-ethyl perfluoro-1-octanesulfonamide	*NS*	*NS*	*NS*		0.0882 U	–	0.0888 U	–
N-ethyl perfluorooctanesulfonamidoacetic acid	*NS*	*NS*	*NS*		0.0907 U	–	0.0913 U	–
N-methyl perfluoro-1-octanesulfonamide	*NS*	*NS*	*NS*		0.0581 U	–	0.0584 U	–
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	*NS*	*NS*	*NS*		**0.180 J**	–	**0.252**	–
Nonafluoro-3,6-dioxaheptanoic acid	*NS*	*NS*	*NS*		0.241 U	–	0.243 U	–
Perfluoro(2-ethoxyethane)sulfonic acid	*NS*	*NS*	*NS*		0.143 U	–	0.144 U	–
Perfluoro-3-methoxypropanoic acid	*NS*	*NS*	*NS*		0.0908 U	–	0.0914 U	–
Perfluoro-4-methoxybutanoic acid	*NS*	*NS*	*NS*		0.121 U	–	0.122 U	–
Perfluorobutanesulfonic acid (PFBS)	*NS*	*NS*	*NS*		**0.119 J**	–	0.0631 U	–

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS6-A Sample Name: 20251014-SS6-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS6-B Sample Name: 20251014-SS6-B Depth: 6 - 12 in Date: 10/14/25	Location ID: SS7-A Sample Name: 20251014-SS7-A Depth: 0 - 6 in Date: 10/14/25	Location ID: SS7-B Sample Name: 20251014-SS7-B Depth: 6 - 12 in Date: 10/14/25
Perfluorobutanoic Acid	*NS*	*NS*	*NS*		0.27 U	–	0.272 U	–
Perfluorodecanesulfonic acid (PFDS)	*NS*	*NS*	*NS*		**0.0976 J**	–	**0.136 J**	–
Perfluorodecanoic acid (PFDA)	*NS*	*NS*	*NS*		**0.790**	–	**0.510**	–
Perfluorododecanesulfonic acid (PFDOS)	*NS*	*NS*	*NS*		0.0568 U	–	0.0571 U	–
Perfluorododecanoic acid (PFDoA)	*NS*	*NS*	*NS*		**1.89**	–	**0.270**	–
Perfluoroheptanesulfonic acid (PFHpS)	*NS*	*NS*	*NS*		0.103 U	–	0.104 U	–
Perfluoroheptanoic acid (PFHpA)	*NS*	*NS*	*NS*		**0.0840 J**	–	**0.109 J**	–
Perfluorohexanesulfonic acid (PFHxS)	*NS*	*NS*	*NS*		0.0742 U	–	0.0746 U	–
Perfluorohexanoic acid (PFHxA)	*NS*	*NS*	*NS*		**0.127 J**	–	**0.0913 J**	–
Perfluorononanesulfonic Acid (PFNS)	*NS*	*NS*	*NS*		0.0594 U	–	0.0597 U	–
Perfluorononanoic acid (PFNA)	*NS*	*NS*	*NS*		**0.122 J**	–	**0.163 J**	–
Perfluorooctane Sulfonamide (FOSA)	*NS*	*NS*	*NS*		**0.296**	–	**0.317**	–
Perfluorooctanesulfonic acid (PFOS)	*0.88*	*440*	*1*		**0.813**	–	**5.79**	–
Perfluorooctanoic acid (PFOA)	*0.66*	*500*	*0.8*		**0.424**	–	**0.305**	–
Perfluoropentanesulfonic Acid (PFPeS)	*NS*	*NS*	*NS*		0.0635 U	–	0.0639 U	–
Perfluoropentanoic Acid (PFPeA)	*NS*	*NS*	*NS*		**0.126 J**	–	0.124 U	–
Perfluorotetradecanoic acid (PFTA)	*NS*	*NS*	*NS*		**0.748**	–	**0.123 J**	–
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	*NS*	*NS*	*NS*		**0.520**	–	0.063 U	–
Perfluoroundecanoic Acid (PFUnA)	*NS*	*NS*	*NS*		**0.969**	–	**0.142 J**	–
Metals by Method SW6010D (mg/kg)								
Aluminum	*NS*	*NS*	*NS*		**3830**	–	**2190**	–
Antimony	*NS*	*NS*	*NS*		3.29 U	–	3.32 U	–
Arsenic	*13*	*16*	*16*		**1.88**	–	**1.16**	–
Barium	*410*	*410*	*820*		**20.6**	–	**28.9**	–
Beryllium	*4.4*	*670*	*47*		**0.146 J**	–	**0.092 J**	–
Cadmium	*2.5*	*3.7*	*7.5*		**0.218 J**	–	**0.314 J**	–
Calcium	*NS*	*NS*	*NS*		**479**	–	**397**	–
Chromium, Total	*30*	*1700*	*NS*		**5.55**	–	**3.66**	–
Cobalt	*NS*	*NS*	*NS*		**1.65 J**	–	**1.19 J**	–
Copper	*50*	*280*	*1720*		**16.1**	–	**13.8**	–
Iron	*NS*	*NS*	*NS*		**5430**	–	**2770**	–
Lead	*63*	*1000*	*450*		**36.6**	–	**80.4**	–
Magnesium	*NS*	*NS*	*NS*		**478**	–	**330**	–
Manganese	*1600*	*10000*	*2000*		**91.2**	–	**52.6**	–
Nickel	*30*	*320*	*130*		**3.26**	--	**2.78**	–
Potassium	*NS*	*NS*	*NS*		**132 J**	--	**94.8 J**	–
Selenium	*3.9*	*1700*	*4*		0.281 U	–	0.284 U	–
Silver	*2*	*1700*	*8.3*		0.255 U	–	0.257 U	–
Sodium	*NS*	*NS*	*NS*		90.7 U	--	91.4 U	–

Key at end of table.

Table 1 - Summary of Analytical Results for Soil Samples
West Sayville Drycleaners, West Sayville, New York

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]		Location ID: SS6-A Sample Name: 20251014-SS6-A Depth: 0 - 6 in Date: 10/14/25	SS6-B 20251014-SS6-B 6 - 12 in 10/14/25	SS7-A 20251014-SS7-A 0 - 6 in 10/14/25	SS7-B 20251014-SS7-B 6 - 12 in 10/14/25
Thallium	*NS*	*NS*	*NS*		0.772 U	–	0.777 U	–
Vanadium	*NS*	*NS*	*NS*		**7.87**	–	**5.08**	–
Zinc	*109*	*10000*	*2480*		**69.8**	–	**89.1**	–
Mercury by Method SW7471B (mg/kg)								
Mercury	*0.18*	*1.1*	*0.73*		0.051 U	–	**0.047 J**	–
Cyanide by Method SW9014 (mg/kg)								
Cyanide	*2.3*	*28*	*40*		0.46 U	–	0.44 U	–
Total Solids by Method SM2540G (%)								
Percent Solids	*NS*	*NS*	*NS*		**88.5**	**86.4**	**91.8**	**93.8**

Key:

Qualifiers

J = Estimated value

J- = Estimated value, biased low

U = Not Detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Notes

NS = No established standard or guidance value

-- = Not analyzed

Other

µg/kg = Micrograms per kilogram

mg/kg = miligrams per kilogram

ft = feet

in = inches

Bold values denote positive detections.	**1**
Exceeds Unrestricted Soil Cleanup Objective	**10**
Exceeds Unrestricted and Protection of Groundwater Soil Cleanup Objective	**100**
Exceeds All Soil Cleanup Objective	**100**

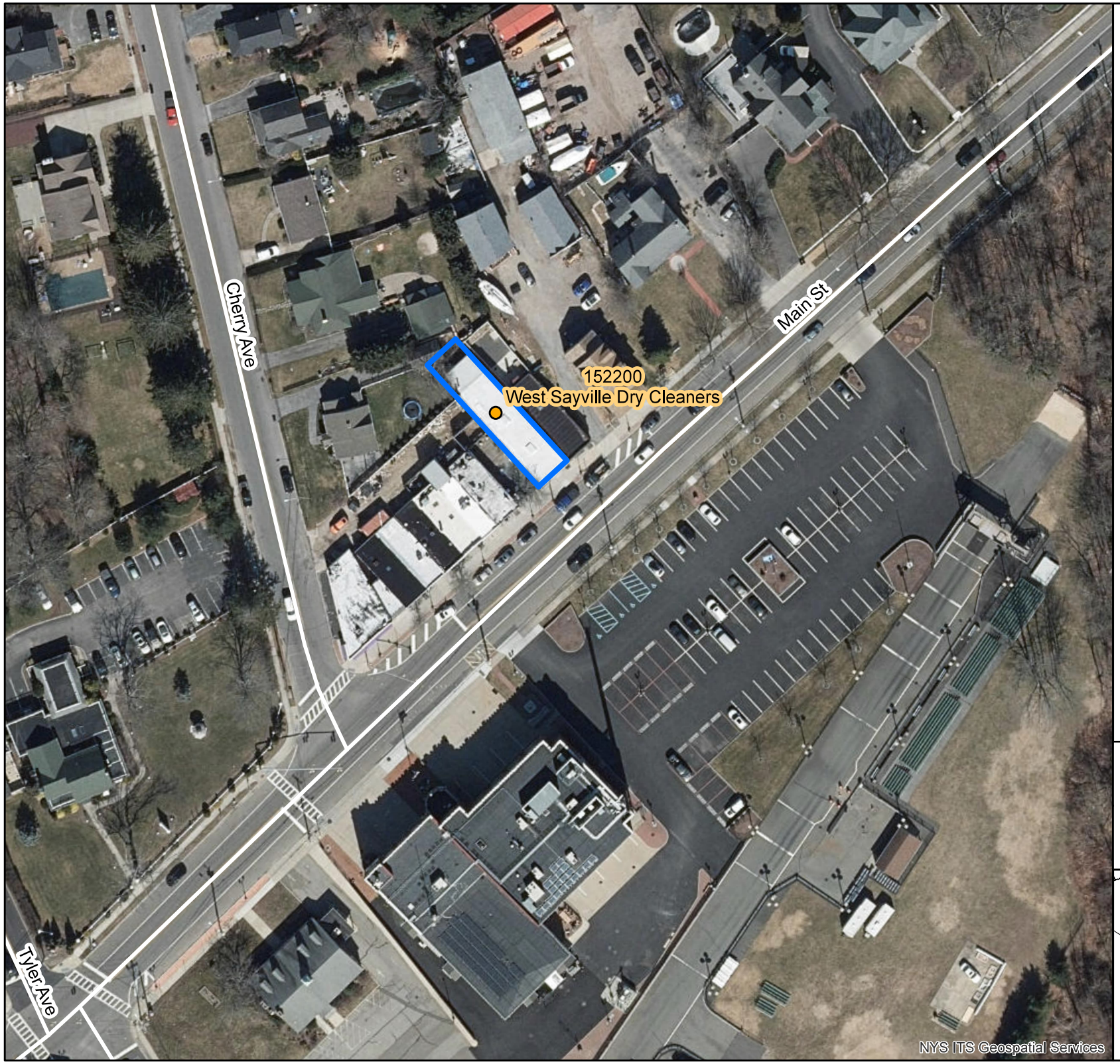
1. New York State Department of Environmental Conservation, Codes, Rules, and Regulations Part 375-6.8(a): *Unrestricted Use Soil Cleanup Objectives* 1998 (with updates)

2. New York State Department of Environmental Conservation, Codes, Rules, and Regulations Part 375-6.8(b): *Restricted Use Soil Cleanup Objectives* 1998 (with updates), Commercial Protection of Public Health

3. New York State Department of Environmental Conservation, Codes, Rules, and Regulations Part 375-6.8(b): *Restricted Use Soil Cleanup Objectives* 1998 (with updates), Protection of Groundwater

Key at end of table.

Figures



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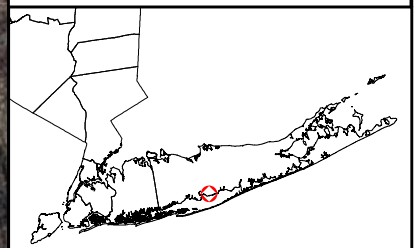
Figure 1: Site Map

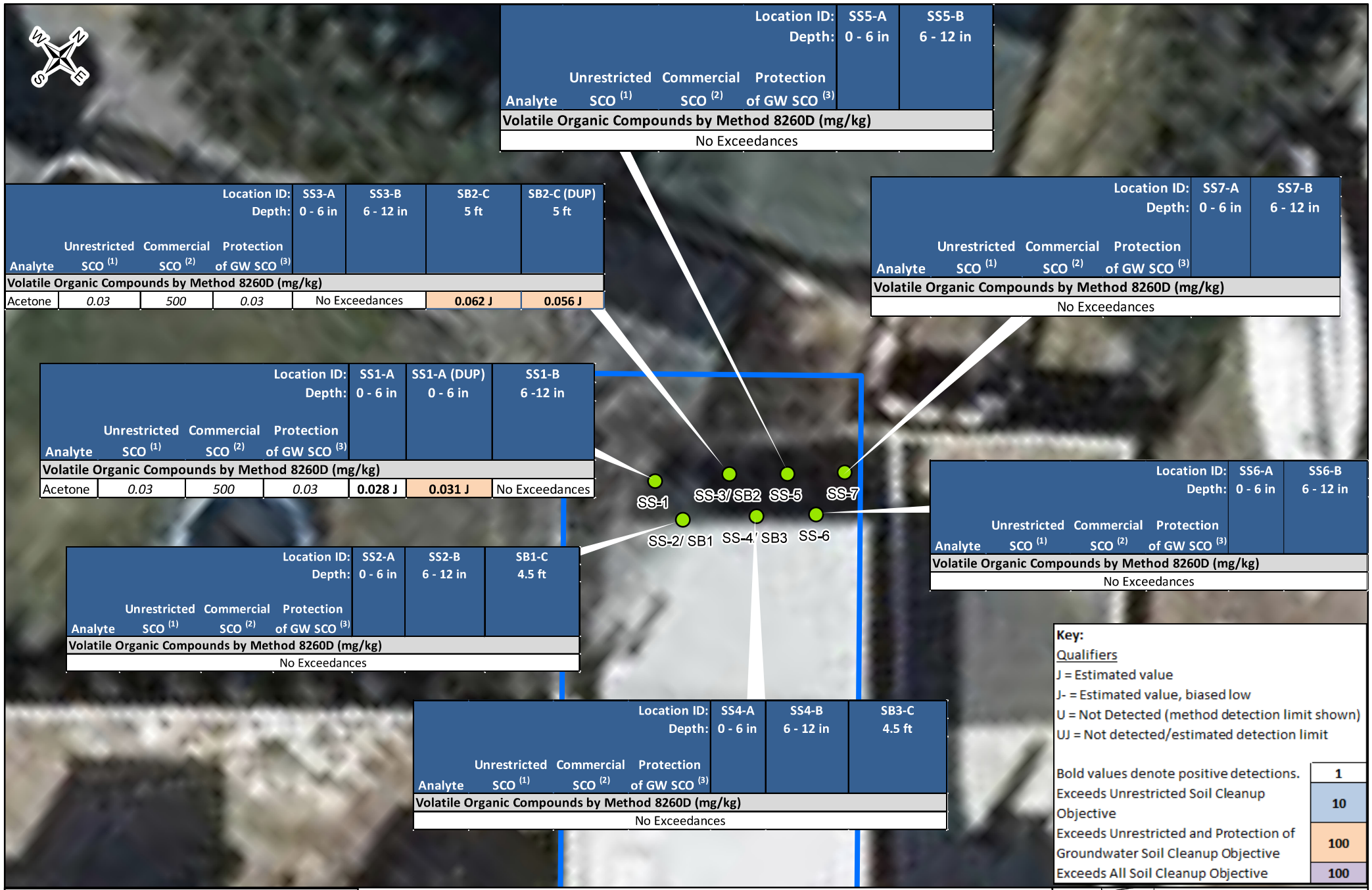
West Sayville Dry Cleaners,
NYSDEC site no.:152200
Suffolk County, NY

0 20 40 80 120
Feet

Legend

- Remediation Site
- Remediation Site Border





Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: / Depth: SS5-A 0 - 6 in	SS5-B 6 - 12 in
Volatile Organic Compounds by Method 8260D (mg/kg)					
No Exceedances					

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: / Depth: SS3-A 0 - 6 in	SS3-B 6 - 12 in	SB2-C 5 ft	SB2-C (DUP) 5 ft
Volatile Organic Compounds by Method 8260D (mg/kg)							
Acetone	*0.03*	*500*	*0.03*	No Exceedances		**0.062 J**	**0.056 J**

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: / Depth: SS7-A 0 - 6 in	SS7-B 6 - 12 in
Volatile Organic Compounds by Method 8260D (mg/kg)					
No Exceedances					

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: / Depth: SS1-A 0 - 6 in	SS1-A (DUP) 0 - 6 in	SS1-B 6 -12 in
Volatile Organic Compounds by Method 8260D (mg/kg)						
Acetone	*0.03*	*500*	*0.03*	**0.028 J**	**0.031 J**	No Exceedances

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: / Depth: SS6-A 0 - 6 in	SS6-B 6 - 12 in
Volatile Organic Compounds by Method 8260D (mg/kg)					
No Exceedances					

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: / Depth: SS2-A 0 - 6 in	SS2-B 6 - 12 in	SB1-C 4.5 ft
Volatile Organic Compounds by Method 8260D (mg/kg)						
No Exceedances						

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: / Depth: SS4-A 0 - 6 in	SS4-B 6 - 12 in	SB3-C 4.5 ft
Volatile Organic Compounds by Method 8260D (mg/kg)						
No Exceedances						

Key:

Qualifiers

J = Estimated value

J- = Estimated value, biased low

U = Not Detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Bold values denote positive detections.	1
Exceeds Unrestricted Soil Cleanup Objective	10
Exceeds Unrestricted and Protection of Groundwater Soil Cleanup Objective	100
Exceeds All Soil Cleanup Objective	100

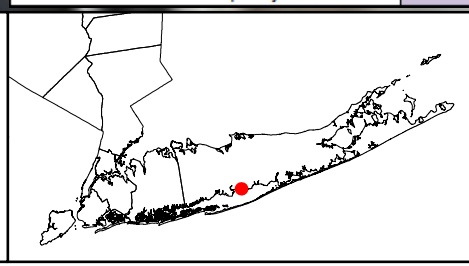
Legend

Remediation Site Border

Soil Points

Figure 2: Volatile Organic Compounds Soil Results

0 4 8 16 24 32 Feet





Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS5-A, Depth: 0 - 6 in
Semivolatile Organic Compounds by Method 8270E (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS3-A, Depth: 0 - 6 in
Semivolatile Organic Compounds by Method 8270E (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS7-A, Depth: 0 - 6 in
Semivolatile Organic Compounds by Method 8270E (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS1-A, Depth: 0 - 6 in	SS1-A (DUP) 0 - 6 in
Semivolatile Organic Compounds by Method 8270E (mg/kg)					
No Exceedances					

Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS6-A, Depth: 0 - 6 in
Semivolatile Organic Compounds by Method 8270E (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS2-A, Depth: 0 - 6 in
Semivolatile Organic Compounds by Method 8270E (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS4-A, Depth: 0 - 6 in
Semivolatile Organic Compounds by Method 8270E (mg/kg)				
No Exceedances				

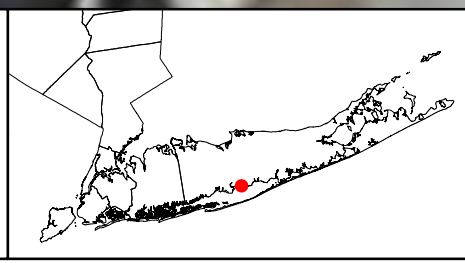
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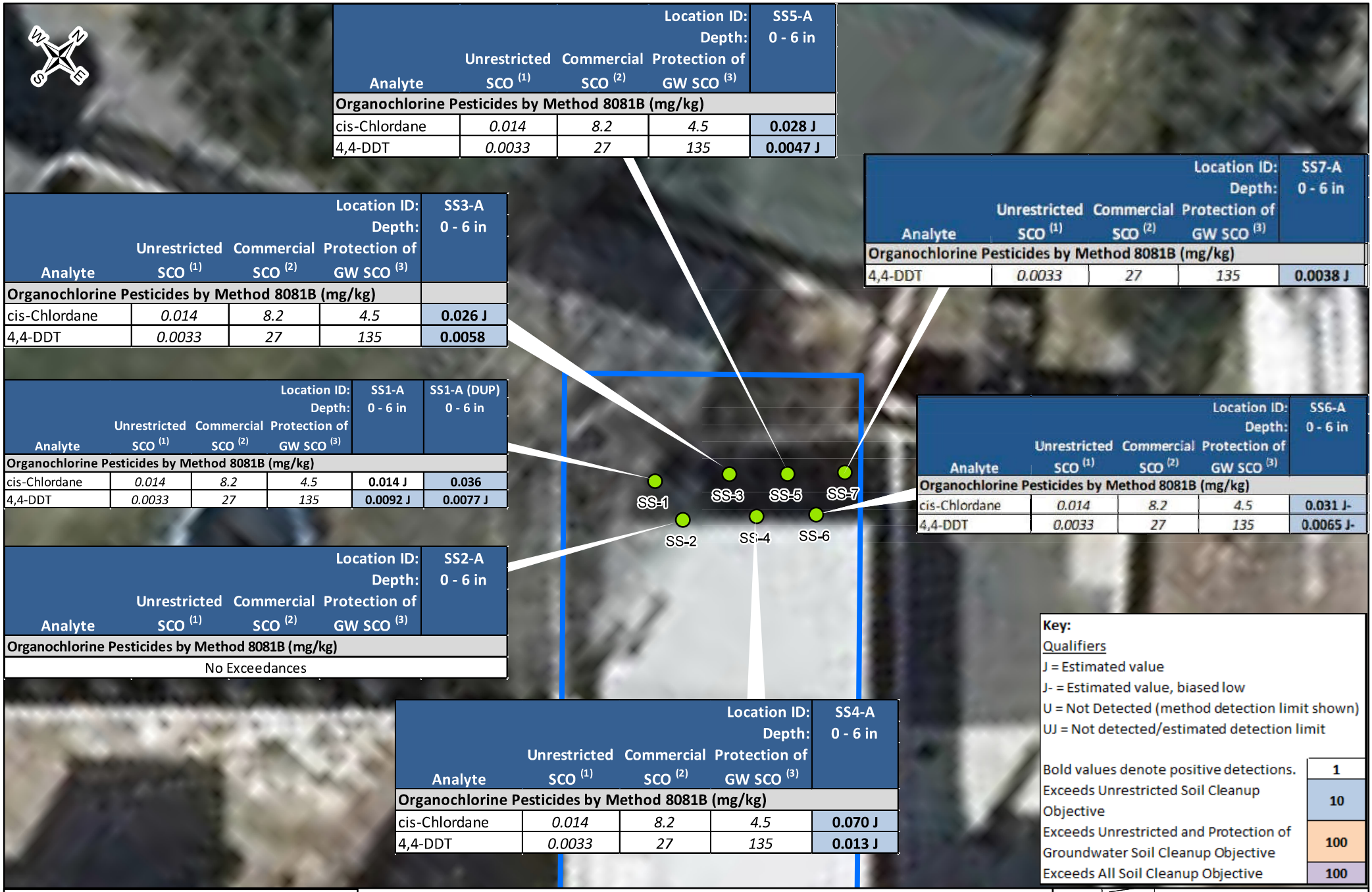
Remediation Site Border

Soil Points

Figure 3: Semivolatile Organic Compounds Soil Results

0 4 8 16 24 32 Feet





Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS5-A Depth: 0 - 6 in
Organochlorine Pesticides by Method 8081B (mg/kg)				
cis-Chlordane	*0.014*	*8.2*	*4.5*	**0.028 J**
4,4-DDT	*0.0033*	*27*	*135*	**0.0047 J**

Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS7-A Depth: 0 - 6 in
Organochlorine Pesticides by Method 8081B (mg/kg)				
4,4-DDT	*0.0033*	*27*	*135*	**0.0038 J**

Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS3-A Depth: 0 - 6 in
Organochlorine Pesticides by Method 8081B (mg/kg)				
cis-Chlordane	*0.014*	*8.2*	*4.5*	**0.026 J**
4,4-DDT	*0.0033*	*27*	*135*	**0.0058**

Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS1-A Depth: 0 - 6 in	SS1-A (DUP) 0 - 6 in
Organochlorine Pesticides by Method 8081B (mg/kg)					
cis-Chlordane	*0.014*	*8.2*	*4.5*	**0.014 J**	**0.036**
4,4-DDT	*0.0033*	*27*	*135*	**0.0092 J**	**0.0077 J**

Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS6-A Depth: 0 - 6 in
Organochlorine Pesticides by Method 8081B (mg/kg)				
cis-Chlordane	*0.014*	*8.2*	*4.5*	**0.031 J-**
4,4-DDT	*0.0033*	*27*	*135*	**0.0065 J-**

Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS2-A Depth: 0 - 6 in
Organochlorine Pesticides by Method 8081B (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO (1)	Commercial SCO (2)	Protection of GW SCO (3)	Location ID: SS4-A Depth: 0 - 6 in
Organochlorine Pesticides by Method 8081B (mg/kg)				
cis-Chlordane	*0.014*	*8.2*	*4.5*	**0.070 J**
4,4-DDT	*0.0033*	*27*	*135*	**0.013 J**

Key:

Qualifiers

J = Estimated value

J- = Estimated value, biased low

U = Not Detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Bold values denote positive detections.	**1**
Exceeds Unrestricted Soil Cleanup Objective	**10**
Exceeds Unrestricted and Protection of Groundwater Soil Cleanup Objective	**100**
Exceeds All Soil Cleanup Objective	**100**

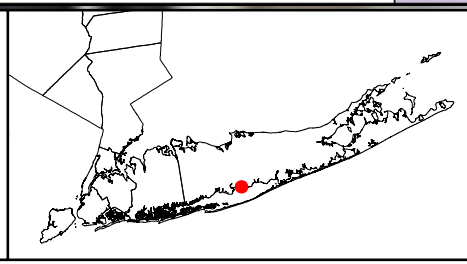
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Remediation Site Border

Soil Points

Figure 4:
Organic Pesticides Soil Results

0 4 8 16 24 32 Feet





Location ID:	SS5-A
Depth:	0 - 6 in
Analyte	Unrestricted SCO (1) / Commercial SCO (2) / Protection of GW SCO (3)
Polychlorinated Biphenyls (PCBs) by Method 8082A (mg/kg)	
No Exceedances	

Location ID:	SS3-A
Depth:	0 - 6 in
Analyte	Unrestricted SCO (1) / Commercial SCO (2) / Protection of GW SCO (3)
Polychlorinated Biphenyls (PCBs) by Method 8082A (mg/kg)	
No Exceedances	

Location ID:	SS7-A
Depth:	0 - 6 in
Analyte	Unrestricted SCO (1) / Commercial SCO (2) / Protection of GW SCO (3)
Polychlorinated Biphenyls (PCBs) by Method 8082A (mg/kg)	
No Exceedances	

Location ID:	SS1-A	SS1-A (DUP)
Depth:	0 - 6 in	0 - 6 in
Analyte	Unrestricted SCO (1) / Commercial SCO (2) / Protection of GW SCO (3)	
Polychlorinated Biphenyls (PCBs) by Method 8082A (mg/kg)		
No Exceedances		

Location ID:	SS6-A
Depth:	0 - 6 in
Analyte	Unrestricted SCO (1) / Commercial SCO (2) / Protection of GW SCO (3)
Polychlorinated Biphenyls (PCBs) by Method 8082A (mg/kg)	
No Exceedances	

Location ID:	SS2-A
Depth:	0 - 6 in
Analyte	Unrestricted SCO (1) / Commercial SCO (2) / Protection of GW SCO (3)
Polychlorinated Biphenyls (PCBs) by Method 8082A (mg/kg)	
No Exceedances	

Location ID:	SS4-A
Depth:	0 - 6 in
Analyte	Unrestricted SCO (1) / Commercial SCO (2) / Protection of GW SCO (3)
Polychlorinated Biphenyls (PCBs) by Method 8082A (mg/kg)	
No Exceedances	

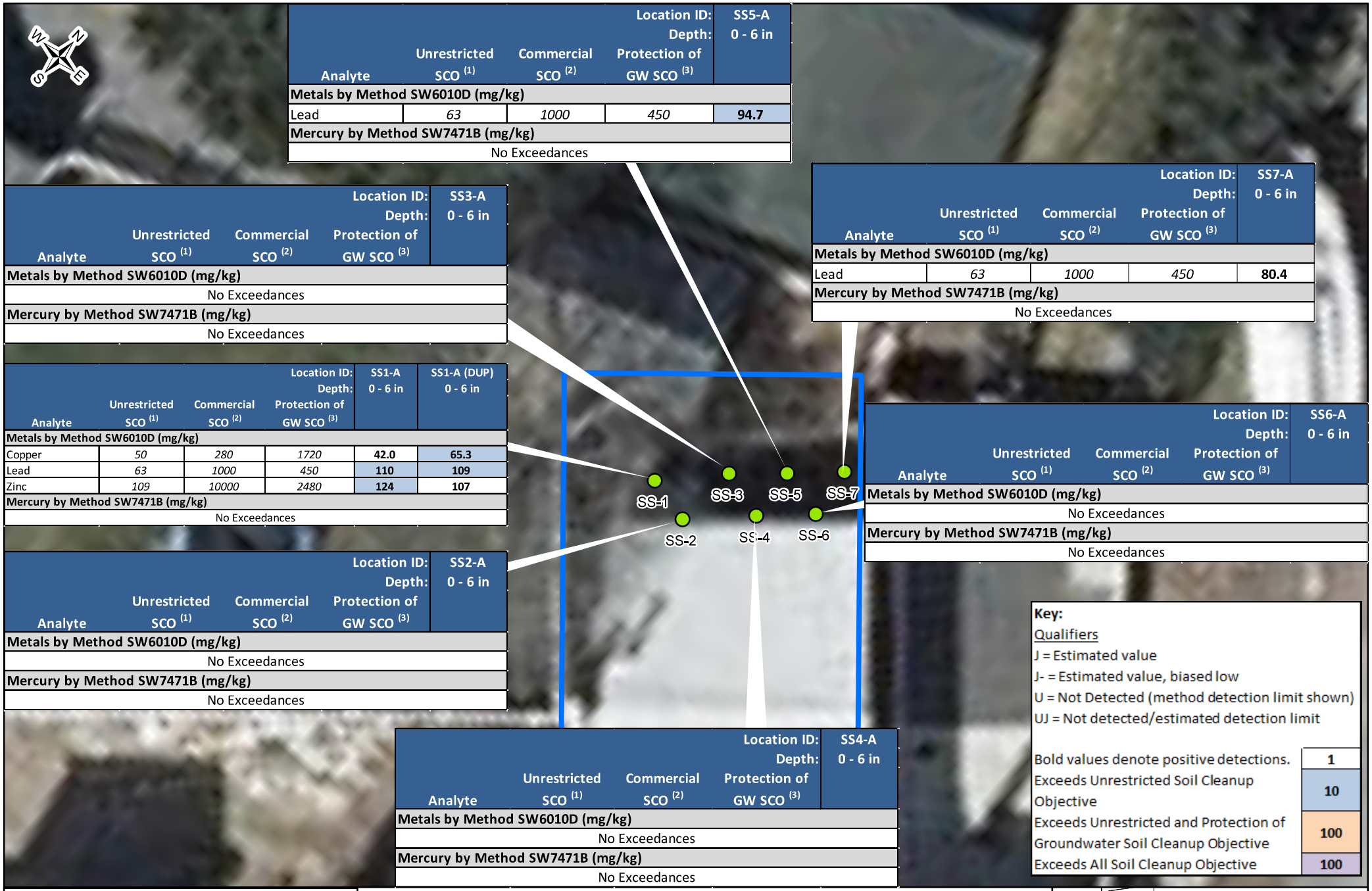
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Remediation Site Border

Soil Points

Figure 5: PCBs Soil Results

0 4 8 16 24 32 Feet



Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS5-A Depth: 0 - 6 in
Metals by Method SW6010D (mg/kg)				
Lead	*63*	*1000*	*450*	**94.7**
Mercury by Method SW7471B (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS3-A Depth: 0 - 6 in
Metals by Method SW6010D (mg/kg)				
No Exceedances				
Mercury by Method SW7471B (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS7-A Depth: 0 - 6 in
Metals by Method SW6010D (mg/kg)				
Lead	*63*	*1000*	*450*	**80.4**
Mercury by Method SW7471B (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS1-A Depth: 0 - 6 in	SS1-A (DUP) 0 - 6 in
Metals by Method SW6010D (mg/kg)					
Copper	*50*	*280*	*1720*	**42.0**	**65.3**
Lead	*63*	*1000*	*450*	**110**	**109**
Zinc	*109*	*10000*	*2480*	**124**	**107**
Mercury by Method SW7471B (mg/kg)					
No Exceedances					

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS6-A Depth: 0 - 6 in
Metals by Method SW6010D (mg/kg)				
No Exceedances				
Mercury by Method SW7471B (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS2-A Depth: 0 - 6 in
Metals by Method SW6010D (mg/kg)				
No Exceedances				
Mercury by Method SW7471B (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS4-A Depth: 0 - 6 in
Metals by Method SW6010D (mg/kg)				
No Exceedances				
Mercury by Method SW7471B (mg/kg)				
No Exceedances				

Key:

Qualifiers

J = Estimated value

J- = Estimated value, biased low

U = Not Detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Bold values denote positive detections.	1
Exceeds Unrestricted Soil Cleanup Objective	10
Exceeds Unrestricted and Protection of Groundwater Soil Cleanup Objective	100
Exceeds All Soil Cleanup Objective	100

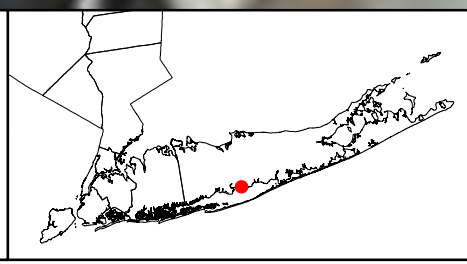
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Remediation Site Border

Soil Points

0 4 8 16 24 32 Feet

Figure 5: Metals Soil Results





Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Location ID: / Depth: / Protection of GW SCO [3]	SS5-A 0 - 6 in
Cyanide by Method SW9014 (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Location ID: / Depth: / Protection of GW SCO [3]	SS7-A 0 - 6 in
Cyanide by Method SW9014 (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Location ID: / Depth: / Protection of GW SCO [3]	SS3-A 0 - 6 in
Cyanide by Method SW9014 (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Location ID: / Depth: / Protection of GW SCO [3]	SS1-A 0 - 6 in	SS1-A (DUP) 0 - 6 in
Cyanide by Method SW9014 (mg/kg)					
No Exceedances					

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Location ID: / Depth: / Protection of GW SCO [3]	SS6-A 0 - 6 in
Cyanide by Method SW9014 (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Location ID: / Depth: / Protection of GW SCO [3]	SS2-A 0 - 6 in
Cyanide by Method SW9014 (mg/kg)				
No Exceedances				

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Location ID: / Depth: / Protection of GW SCO [3]	SS4-A 0 - 6 in
Cyanide by Method SW9014 (mg/kg)				
No Exceedances				

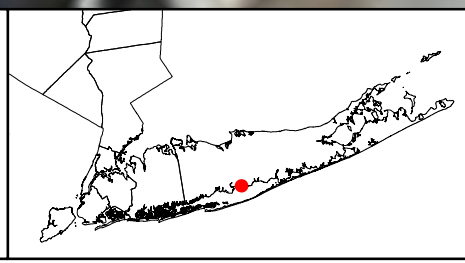
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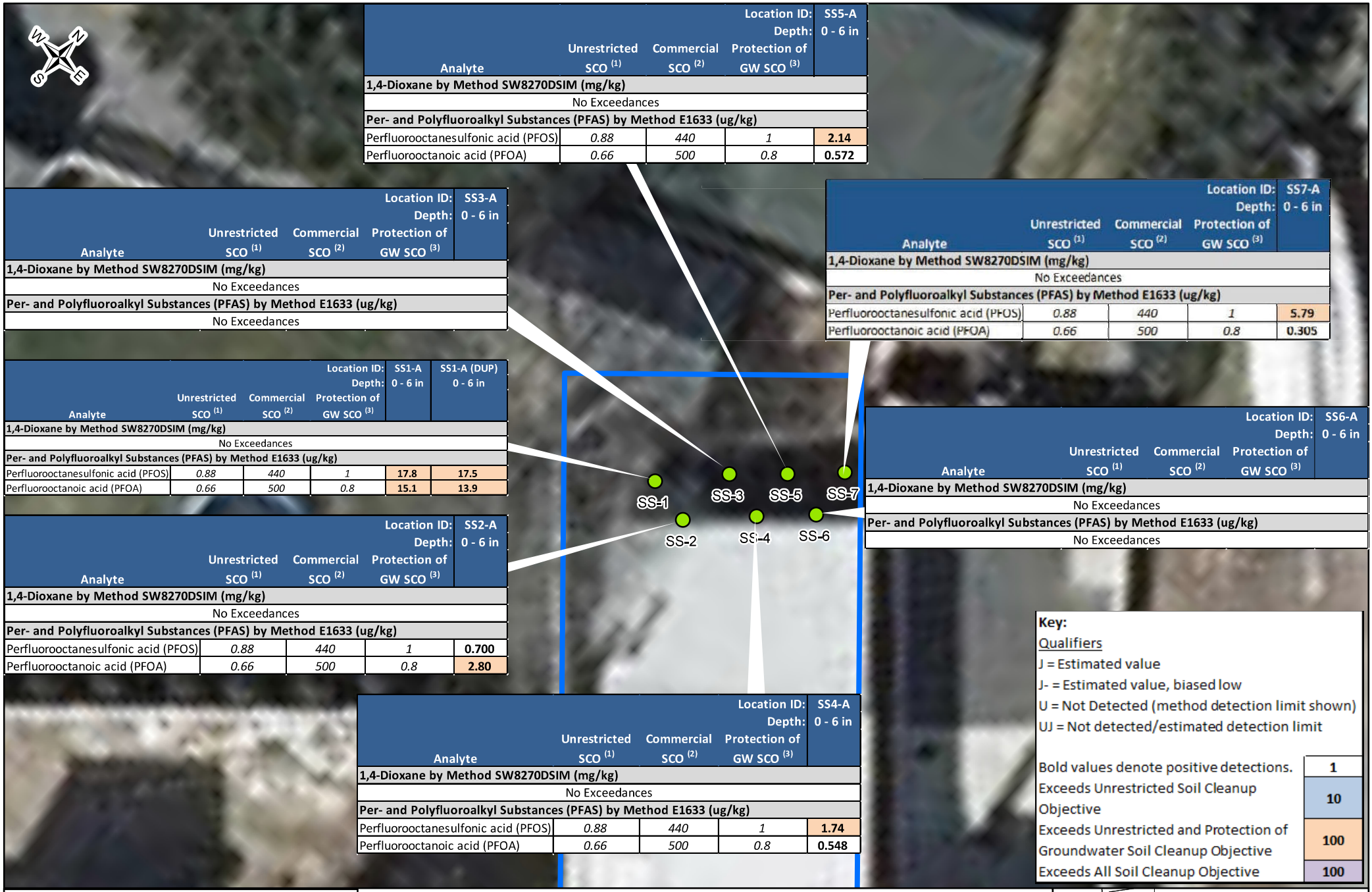
Remediation Site Border

Soil Points

Figure 7: Cyanide Soil Results

0 4 8 16 24 32 Feet





Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS5-A Depth: 0 - 6 in
1,4-Dioxane by Method SW8270DSIM (mg/kg)				
No Exceedances				
Per- and Polyfluoroalkyl Substances (PFAS) by Method E1633 (ug/kg)				
Perfluorooctanesulfonic acid (PFOS)	*0.88*	*440*	*1*	**2.14**
Perfluorooctanoic acid (PFOA)	*0.66*	*500*	*0.8*	**0.572**

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS3-A Depth: 0 - 6 in
1,4-Dioxane by Method SW8270DSIM (mg/kg)				
No Exceedances				
Per- and Polyfluoroalkyl Substances (PFAS) by Method E1633 (ug/kg)				
No Exceedances				

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS7-A Depth: 0 - 6 in
1,4-Dioxane by Method SW8270DSIM (mg/kg)				
No Exceedances				
Per- and Polyfluoroalkyl Substances (PFAS) by Method E1633 (ug/kg)				
Perfluorooctanesulfonic acid (PFOS)	*0.88*	*440*	*1*	**5.79**
Perfluorooctanoic acid (PFOA)	*0.66*	*500*	*0.8*	**0.305**

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS1-A Depth: 0 - 6 in	SS1-A (DUP) 0 - 6 in
1,4-Dioxane by Method SW8270DSIM (mg/kg)					
No Exceedances					
Per- and Polyfluoroalkyl Substances (PFAS) by Method E1633 (ug/kg)					
Perfluorooctanesulfonic acid (PFOS)	*0.88*	*440*	*1*	**17.8**	**17.5**
Perfluorooctanoic acid (PFOA)	*0.66*	*500*	*0.8*	**15.1**	**13.9**

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS6-A Depth: 0 - 6 in
1,4-Dioxane by Method SW8270DSIM (mg/kg)				
No Exceedances				
Per- and Polyfluoroalkyl Substances (PFAS) by Method E1633 (ug/kg)				
No Exceedances				

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS2-A Depth: 0 - 6 in
1,4-Dioxane by Method SW8270DSIM (mg/kg)				
No Exceedances				
Per- and Polyfluoroalkyl Substances (PFAS) by Method E1633 (ug/kg)				
Perfluorooctanesulfonic acid (PFOS)	*0.88*	*440*	*1*	**0.700**
Perfluorooctanoic acid (PFOA)	*0.66*	*500*	*0.8*	**2.80**

Analyte	Unrestricted SCO [1]	Commercial SCO [2]	Protection of GW SCO [3]	Location ID: SS4-A Depth: 0 - 6 in
1,4-Dioxane by Method SW8270DSIM (mg/kg)				
No Exceedances				
Per- and Polyfluoroalkyl Substances (PFAS) by Method E1633 (ug/kg)				
Perfluorooctanesulfonic acid (PFOS)	*0.88*	*440*	*1*	**1.74**
Perfluorooctanoic acid (PFOA)	*0.66*	*500*	*0.8*	**0.548**

Key:

Qualifiers

J = Estimated value

J- = Estimated value, biased low

U = Not Detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Bold values denote positive detections.	**1**
Exceeds Unrestricted Soil Cleanup Objective	**10**
Exceeds Unrestricted and Protection of Groundwater Soil Cleanup Objective	**100**
Exceeds All Soil Cleanup Objective	**100**

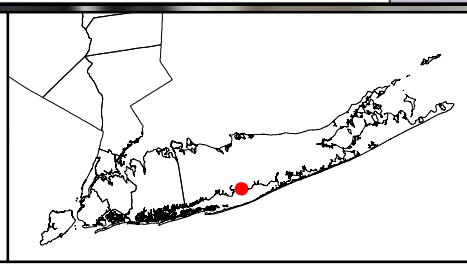
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Remediation Site Border

Soil Points

Figure 8:
PFAS and 1,4-Dioxane Soil Results

0 4 8 16 24 32 Feet



Appendix A

BORING LOG

NEW YORK STATE OF OPPORTUNITY — Department of Environmental Conservation

PROJECT: West Sayville Dry Cleaners
PROJECT NO.: 152200
LOCATION: West Sayville, NY

Location ID: **SB-1**

Contractor:
Drill Rig:
Driller:
Inspector:

Start Date: 10/15/2025 **Northing:**
Finish Date: 10/15/2025 **Easting:**
El. Datum: **G.S. Elevation:**

Total Depth: 4.5 ft.
Borehole Dia.: 3 in.
Depth to Water: ft.
Depth to Rock: ft.
Monitoring Well Dia.: in.

Depth *(Feet)*	Casing Data	Sample No.	Blow Counts	Recovery *(inches)*	PID *(ppm)*	Group Symbol	Stratum and Field Descriptions:	Field Notes, Lab Sample Collected:
0.5					0		grey brown medium to fine sand, little fine to medium gravel	
1.0							grey brown fine to coarse sand with some silt, little very fine gravel, poorly graded	
1.5					0		light brown very fine to medium sand with trace silt, little very fine gravel, poorly graded moist	
2.0							brown fine to medium sand with some silt, little very fine to fine gravel, poorly graded, moist	
2.5					0		dark brown very fine to fine sand with silt, little very fine to fine gravel, poorly graded, trace of wood and root fragments, moist	
3.0							brown very fine to fine sand with silt, little very fine to medium gravel, poorly graded, moist	
3.5					0		brown very fine to fine sand with silt, trace very fine to medium gravel, poorly graded, trace root fragments, moist	
4.0							brown fine sand with silt, trace very fine gravel, poorly graded, trace glass fragments, moist	
4.5		SB-1			0		light orange and brown very fine to fine sand with silt, trace of very fine gravel, poorly grade, moist	

STANDARD NOTE: Samples classified in accordance with ASTM D-2488 unless otherwise noted.

ADDITIONAL NOTES:

Sample collected at 4.5 ft
sample ID: 20251015-SB1-C; time: 8:57 AM

DRILLING INFORMATION

Method: Hand Auger

BORING LOG

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

PROJECT: West Sayville Dry Cleaners
PROJECT NO.: 152200
LOCATION: West Sayville, NY

Location ID: **SB-2**

Contractor:
Drill Rig:
Driller:
Inspector:

Start Date: 10/15/2025 **Northing:**
Finish Date: 10/15/2025 **Easting:**
El. Datum: **G.S. Elevation:**

Total Depth: 5 ft.
Borehole Dia.: 3 in.
Depth to Water: ft.
Depth to Rock: ft.
Monitoring Well Dia.: in.

Depth *(Feet)*	Casing Data	Sample No.	Blow Counts	Recovery *(inches)*	PID *(ppm)*	Group Symbol	Stratum and Field Descriptions:	Field Notes, Lab Sample Collected:
0.5					0		dark greyish and brown fine to course sand, little fine to medium gravel	
1.0							grey and light brown fine to coarse sand with silt, some very fine gravel, poorly graded	
1.5					0		light brown fine to coarse sand with silt, some fine to medium gravel, poorly graded, and moist	
2.0							dark brown very fine to fine sand with silt, little fine gravel, traces of organic, moist	
2.5					0		brown very fine to fine sand with silt, little fine gravel, traces of organics, poorly graded, moist	
3.0							brown very fine to fine sand with silt, little grey clayey silt, poorly graded, moist	
3.5					0		brown very fine to fine sand with silt, litte grey clayey silt, traces of organics, poorly graded, moist	
4.0							light orange and brown with fine to medium sand, little fine to to large gravel, poorly sorted, moist	
4.5					0		dark brown very fine to fine sand with silt, little very fine to fine gravel, poorly graded, moist	
5.0							dark brown very fine to fine sand with silt, little very fine gravel, traces of organics, poorly graded, moist	

STANDARD NOTE: Samples classified in accordance with ASTM D-2488 unless otherwise noted.

ADDITIONAL NOTES:

Sample collected at 5 ft
sample ID: 20251015-SB2-C; time: 9:20 AM
collected duplicate sample, sample ID: DUP-20251015

DRILLING INFORMATION

Method: Hand Auger

BORING LOG

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

PROJECT: West Sayville Dry Cleaners
PROJECT NO.: 152200
LOCATION: West Sayville, NY

Location ID: **SB-3**

Contractor:
Drill Rig:
Driller:
Inspector:

Start Date: 10/15/2025 **Northing:**
Finish Date: 10/15/2025 **Easting:**
El. Datum: **G.S. Elevation:**

Total Depth: 4.5 ft.
Borehole Dia.: 3 in.
Depth to Water: ft.
Depth to Rock: ft.
Monitoring Well Dia.: in.

Depth *(Feet)*	Casing Data	Sample No.	Blow Counts	Recovery *(inches)*	PID *(ppm)*	Group Symbol	Stratum and Field Descriptions:	Field Notes, Lab Sample Collected:
0.5					0		greyish and brown fine to medium sand, little fine to medium gravel	
1.0							light brown and grey fine to medium sand with silt, trace of fine gravel, poorly graded, moist	
1.5					0		brown very fine to fine sand with silt, trace of fine gravel and clayey silt, poorly graded, moist	
2.0							brown very fine to fine sand with silt, trace of clayey silt, moist	
2.5					0		brown fine to medium sand with trace of silt, little very fine gravel, poorly graded, moist	
3.0							dark brown very fine to fine sand with silt, trace of very fine gravel and organic, moist	
3.5					0		dark brown very fine to fine sand with silt, trace fine gravel, little organics, moist	
4.0							brown very fine to fine sand and silt, trace fine gravel and organic, moist	
4.5					0		light brown fine to medium sand with silt, trace of very fine gravel, poorly graded, slightly moist	

STANDARD NOTE: Samples classified in accordance with ASTM D-2488 unless otherwise noted.

ADDITIONAL NOTES:

Sample collected at 4.5 ft
sample ID: 20251015-SB3-C; time: 9:45 AM
collected MS/MSD samples

DRILLING INFORMATION

Method: Hand Auger

Appendix B

Appendix C

Data Usability Summary Report	Project: West Sayville
Date Completed: January 23, 2026	Completed by: Sayward Gohman-Kramer Reviewed by: Eridania Marte

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs
  - *SOP NO. HW-33A, Rev. 0, Low/Medium Volatile Data Validation*
  - *SOP NO. HW-35A, Rev. 0, Semivolatile Data Validation*
  - *SOP NO. HW-36A, Rev. 0, Pesticide Data Validation*
  - *SOP NO. HW-37A, Rev. 0, Polychlorinated Biphenyl (PCB) Aroclor Data Validation*
  - *SOP NO. HW-17, Rev. 3.1, Chlorinated Herbicides*
  - *SOP NO. HW-3B, Rev. 0, ICP-MS Data Validation*
  - *SOP NO. HW-3C, Rev. 0, Mercury and Cyanide Data Validation*
  - *Sampling, Analysis, and Assessment of Per-And Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs*

Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0030	25J1099	Pace Analytical Services – East Longmeadow, MA

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
25J1099	SO	20251014-SS1-A	25J1099-01	10/14/2025 11:26		
25J1099	SO	20251014-SS1-B	25J1099-02	10/14/2025 11:52		
25J1099	SO	20251014-SS2-A	25J1099-03	10/14/2025 11:56		
25J1099	SO	20251014-SS3-A	25J1099-04	10/14/2025 12:02		
25J1099	SO	20251014-SS2-B	25J1099-05	10/14/2025 12:20		
25J1099	SO	20251014-SS3-B	25J1099-06	10/14/2025 12:20		
25J1099	SO	20251014-SS4-A	25J1099-07	10/14/2025 12:30		
25J1099	SO	MS20251014-SS4-A	25J1099-07	10/14/2025 12:30	MS	
25J1099	SO	MSD20251014-SS4-A	25J1099-07	10/14/2025 12:30	MSD	
25J1099	SO	20251014-SS7-A	25J1099-8	10/14/2025 12:45		
25J1099	SO	20251014-SS4-B	25J1099-9	10/14/2025 13:00		
25J1099	SO	20251014-SS7-B	25J1099-10	10/14/2025 13:10		
25J1099	SO	20251014-SS5-A	25J1099-11	10/14/2025 13:20		
25J1099	SO	20251014-SS6-A	25J1099-12	10/14/2025 13:21		
25J1099	SO	20251014-SS6-B	25J1099-13	10/14/2025 13:35		
25J1099	SO	20251014-SS5-B	25J1099-14	10/14/2025 13:45		
25J1099	WH	20251014-EB	25J1099-15	10/14/2025 14:00	EB	
25J1099	SO	DUP-20251014	25J1099-16	10/14/2025 0:00	FD	
25J1099	SO	20251015-SB1-C	25J1099-17	10/15/2025 8:57		
25J1099	SO	20251015-SB2-C	25J1099-18	10/15/2025 9:20		
25J1099	SO	DUP-20251015	25J1099-19	10/15/2025 0:00	FD	
25J1099	SO	20251015-SB3-C	25J1099-20	10/15/2025 9:45		
25J1099	SO	MS20251015-SB3-C	25J1099-20	10/15/2025 9:45	MS	
25J1099	SO	MSD20251015-SB3-C	25J1099-20	10/15/2025 9:45	MSD	
25J1099	WH	20251015-EB	25J1099-21	10/15/2025 9:45	EB	

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Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
25J1099	SO	8260D	Volatile Organic Compounds by GC/MS	17	N
25J1099	SO	8270E	Semivolatile Organic Compounds by GC/MS	7	N
25J1099	SO	8270E-SIM	1,4-Dioxane by GC/MS	7	N
25J1099	SO	6010D	Metals by ICP-AES	7	N
25J1099	SO	7471B	Mercury (CVAA)	7	N
25J1099	SO	8081B	Organochloride Pesticides by GC/ECD	7	N
25J1099	SO	8082A	Polychlorinated Biphenyls GC/ECD	7	N
25J1099	SO	9014	Total Cyanide	7	N
25J1099	SQ	8260D	Volatile Organic Compounds by GC/MS	4	MS/MSD
25J1099	SQ	8270E	Semivolatile Organic Compounds by GC/MS	4	MS/MSD
25J1099	SQ	8270E-SIM	1,4-Dioxane by GC/MS	4	MS/MSD
25J1099	SQ	6010D	Metals by ICP-AES	4	MS/MSD
25J1099	SQ	7471B	Mercury (CVAA)	4	MS/MSD
25J1099	SQ	8081B	Organochloride Pesticides by GC/ECD	4	MS/MSD
25J1099	SQ	8082A	Polychlorinated Biphenyls GC/ECD	4	MS/MSD
25J1099	SQ	9014	Total Cyanide	4	MS/MSD
25J1099	SO	8260D	Volatile Organic Compounds by GC/MS	2	FD
25J1099	SO	8270E	Semivolatile Organic Compounds by GC/MS	1	FD
25J1099	SO	8270E-SIM	1,4-Dioxane by GC/MS	1	FD
25J1099	SO	6010D	Metals by ICP-AES	1	FD
25J1099	SO	7471B	Mercury (CVAA)	1	FD
25J1099	SO	8081B	Organochloride Pesticides by GC/ECD	1	FD
25J1099	SO	8082A	Polychlorinated Biphenyls GC/ECD	1	FD
25J1099	SO	9014	Total Cyanide	1	FD
25J1099	WH	8260D	Volatile Organic Compounds by GC/MS	2	EB
25J1099	WH	1633	Per- and Polyfluorinated Substances	1	EB

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General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. One sample container for sample 20251014-SS3-A and 20251015-EB was received without samples time or date. The date and time was used from the COC. The sample times for sample 20251014-SS6-A, 20251014-EB, and 20251015-SB1-C did not match sample time from COC. The sample time from COC was used. One sample container for sample 20251014-SS6-A was labeled as if preserved with MeOH, however; sample container was preserved with NaSO4. No further actions but to note.
Did coolers arrive at lab between 2 and 6ºC and in good condition as indicated on COC and Cooler Receipt Form?	No. Sample were received by the subcontract lab at 1.9º C. 1.2 º C, and 1.7º C. There was no indication of freezing; therefore, no qualification was made.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Equipment Blank - 1/ 20 samples?	2 FD per 17 samples. 2 MS/MSD per 17 samples. No field blank collected. 2 equipment blanks collected. No trip blank collected.
Case narrative present and complete?	Yes.
Any holding time violations?	Yes. Sample 20251014-SS6-A was reextracted by method 8081B out of hold time due to initial low surrogate recovery. The reextracted data was reported and qualified J-/UJ and the initial data marked as non-reportable. Equipment blank extraction for method 1633A was within the method holding time. Compounds NMeFOSE, NEtFOSE, NMeFOSAA, and NEtFOSAA are susceptible to bias when extracted later than 7 days from collection. No qualifications were made to associated sample results Soil sample extraction for method 1633A was within the method holding time. Compound NFDHA is susceptible to bias when extracted later than 3 days from collection. No qualifications were made.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- IDA Recoveries Outside Limits (Table 3A)
- MS/MSD and RPD Outside Limits (Table 4)

- LCS/ICV/CCV Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate/ Lab Replicate Results (Table 7)
- Dual Column RPD (Table 7A)

Volatile Organic Compounds by GC/MS – Method 8260D	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs. (See Table 2B)	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)?	No. Several compounds were recovered outside acceptance criteria in MS and MSD B415955-MS1 and B415955-MSD1. When recovery was high, parent sample 20251014-SS4-A was non-detect; therefore, no qualification was needed. When recovery was low, parent sample detections were J qualified as estimated and non-detects were UJ qualified. Tert-butyl alcohol exhibited high RPD between MS and MSD B415955-MS1 and B415955-MSD1. Parent sample 20251014-SS4-A was non-detect; therefore, result was UJ qualified. Several compounds were recovered outside acceptance criteria in MS and MSD B416053-MS1 and B416053-MSD1. When recovery was high, parent sample 20251015-SB3-C was non-detect; therefore, no qualification was needed. When recovery was low, parent sample non-detects were UJ qualified.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Ethanol was recovered below acceptance criteria in LCS and LCSD B415955-BS2 and B415955-BSD2. All associated samples were non-detect for this compound; therefore, results were UJ qualified as estimated non-detect. Ethanol was recovered below acceptance criteria in LCS B416053-BS2. Ethanol exhibited high RPD between LCS and LCSD B416053-BS2 and B416053-BSD2. All associated samples were non-detect for this compound; therefore, results were UJ qualified as estimated non-detect.

Volatile Organic Compounds by GC/MS – Method 8260D	
Description	**Notes and Qualifiers**
Do internal standard areas and retention times meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is %D in the initial and continuing calibration for target compounds less than method specifications? (See Table 5B)	No. Several compounds were recovered outside acceptance criteria in ICV 122448-ICV1. All sample detections for these compounds were J qualified as estimated and non-detects were UJ qualified. Several compounds were recovered outside acceptance criteria in CCVs S127604-CCV1 and S127604-CCV2. All sample detections for these compounds were J qualified as estimated and non-detects were UJ qualified. Several compounds were recovered outside acceptance criteria in CCVs S127683-CCV1 and S127683-CCV2. All sample detections for these compounds were J qualified as estimated and non-detects were UJ qualified. Bromomethane, methylene chloride, and tert-amyl methyl ether were recovered outside acceptance criteria in CCV S127693-CCV1. Samples 20251014-EB and 20251015-EB were non-detect for these compounds; therefore, results were UJ qualified.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Yes.
For TICs are there any system related compounds that should not be reported?	Not applicable.
Do field duplicate results show good precision for all compounds (see Table 7)?	No. Several compounds exhibited high RPD between sample 20251014-SS1-A and its field duplicate DUP-20251014. The difference between results was <2x the PQL; therefore, results were not qualified. Methyl acetate exhibited high RPD between sample 20251014-SB2-C and its field duplicate DUP-20251015. The difference between results was >2x the PQL; therefore, results were UJ/J qualified.

Semi-volatile Organic Compounds by GC/MS – Method 8270E/SIM	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory	Not applicable.

Semi-volatile Organic Compounds by GC/MS – Method 8270E/SIM	
Description	**Notes and Qualifiers**
contaminants, then "U" flag data. Qualification also applies to TICs.	
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)?	No. Aniline, hexachlorocyclopentadiene, and pyridine were recovered below acceptance criteria in the MS and/or MSD for sample 20251014-SS4-A. Parent sample was non-detect for these compounds; therefore, results were UJ qualified.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required. (See Table 5)	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is initial calibration verification (ICV) within QC criteria? (See Table 5B)	No. Benzaldehyde and 4-chloroaniline were recovered below acceptance criteria in ICV S126384-ICV1. Sample detections were J qualified and non-detects were UJ qualified.
Is %D in the continuing calibration for target compounds less than method specifications? (See Table 5B)	No. 2,4-Dinitrotoluene, 4-nitrophenol, and hexachlorocyclopentadiene were recovered outside acceptance criteria in CCVS127754-CCV1. All soil samples were non-detect for these compounds; therefore, results were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.

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Semi-volatile Organic Compounds by GC/MS – Method 8270E/SIM	
Description	**Notes and Qualifiers**
Do field duplicate results show good precision for all compounds (see Table 7)?	No. Several compounds exhibited high RPD between sample 20251014-SS1-A and its field duplicate DUP-20251014. When the difference between results was <2x the PQL, results were not qualified. The difference between indeno(1,2,3-c,d)pyrene results was >2x the PQL; therefore, results were J qualified as estimated.

Pesticides by GC/ECD – Method 8081B	
Description	**Notes and Qualifiers**
Are any compounds present in method blanks as noted on Table 2?	No.
For samples, if results are <5 times the blank then "U" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes. Surrogates were recovered below acceptance criteria in sample 20251014-SS6-A. The sample was reextracted for all analytes. The surrogate recoveries were withing criteria in the re-extraction. The initial results were marked as non-reportable. No qualifications were made.
Is laboratory QC frequency one blank and LCS with each batch and one MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 4 and 4A)?	No. Multiple analytes exhibited high %RPD between the MS and MSD for parent sample 250251014-SS4-A. When the parent sample was non-detect, no qualifications were made. Sample detections were J qualified as estimated.
Is LCS within QC criteria (see Table 5 and 5A)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <20 %RSD? Is initial calibration verification <20%D?	Yes.
Is continuing calibration for target compounds <20 %D? (See Table 5B)	Yes.
Spot check retention time windows confirmations as complete.	Yes.
Are dual column results within 40% of each other? (see Table 7B)	No. Several compounds exhibited high RPD between columns in several samples. When RPDs exceeded acceptance criteria, results were J qualified as estimated.

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Pesticides by GC/ECD – Method 8081B	
Description	**Notes and Qualifiers**
Spot check performance evaluation mixture? %Breakdown <15%	Yes.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	Yes. Sample 20251014-SS6-A was reextracted out of hold time due to initial low surrogate recovery. The reextracted data was reported and the initial data marked as non-reportable as reported.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

PCB Aroclors by GC/ECD – Method 8082A	
Description	**Notes and Qualifiers**
Are any compounds present in method blanks as noted on Table 2?	No.
For samples, if results are <5 times the blank then "U" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.
Is laboratory QC frequency one blank and LCS with each batch and one MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 4 and 4A)?	Yes.
Is LCS within QC criteria (see Table 5 and 5A)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit? Is initial calibration verification <20%D?	No. Aroclor-1242 (5) was recovered below acceptance criteria in ICV S127482-ICV1 and Aroclor-1268 (2) was recovered above acceptance criteria in ICV S127483-ICV1. Aroclor-1221 (1) and Aroclor-1221 (4) were recovered outside acceptance criteria in ICV S127484-ICV1. All samples were non-detect for these compounds; therefore, results were UJ qualified as estimated non-detect.
Is continuing calibration for target compounds <15%D? (See Table 5B)	Yes.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	Yes. Several samples were diluted at a 4x dilution. A dilution was performed as part of the standard analytical procedure.
Spot check retention time windows confirmations as complete.	Yes.
Are dual column results within 40% of each other? (see Table 7B)	Yes.

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PCB Aroclors by GC/ECD – Method 8082A	
Description	**Notes and Qualifiers**
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Metals by Method 6010D	
Description	**Notes and Qualifiers**
Are any compounds present in method and field blanks as noted on Table 2?	Yes. Iron was detected in method blank WG2133881-1.
For samples, if results are < 5 times the blank then "U" flag data.	Iron detections in all samples were greater than 5x the blank concentration; therefore, no qualifications were made.
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount.	No. Copper and iron were recovered outside acceptance criteria in MS/MSD WG2133881-3 and WG2133881-4. Iron was detected greater than 4x the spike concentration in parent sample 20251014-SS4-A; therefore, no qualification was made. Copper was detected less than 4x the spike concentration; therefore, result was J qualified.
Were elements recovered ≤30%? If so, “R” flag associated NDs.	No.
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required. (See Table 5)	Yes.
Is there one serial dilution per 20 samples? Flag all data reported with an “E” as “J”.	Yes.
Are serial dilution within QC criteria? (see Table 5)	Yes.
Is CRDL within QC criteria? (80-120%). All lead samples must be re-digested and reanalyzed or the data qualified if unacceptable.	Yes.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Yes.
Spot check CCV 90-110%. Contact lab if unacceptable.	Yes.
Spot check ICVL/CCVL 80-120%. Contact lab if unacceptable.	Yes.
Were samples re-analyzed or diluted? (see Table 6)	No.
Do field/laboratory duplicate results show good precision for all compounds (see Table 7)?	Yes.

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Mercury by CVAA / Cyanide - Method SW7471/9014	
Description	**Notes and Qualifiers**
Are any compounds present in method blanks as noted on Table 2?	No.
For samples, if results are <5 times the blank then "U" flag data.	Not applicable.
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 4 and 4A)? If not, was a post distillation spike performed for cyanide? QC limits are not applicable to sample results greater than 4 times spike amount.	Yes.
Were elements recovered ≤30%? If so, “R” flag associated NDs.	Not applicable.
Is LCS within QC criteria (see Table 5 and 5A)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Spot check ICV 85-115%. Contact lab if unacceptable.	Yes.
Spot check CCV 85-115%. Contact lab if unacceptable.	Yes.
Spot check ICB/CCB +/- RL. Contact lab if unacceptable.	Yes.
Are laboratory duplicates within limits? (see Table 4B)	Not applicable.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Perfluorinated Compounds by LC/MS/MS – Method 1633	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. PFHxS and PFOS were detected below the reporting limit in equipment blank 2025101015-EB.
For samples, if results are < 10 times the blank contaminants, then "J+" flag data.	All samples were greater than 10x the blank concentrations. No qualifications were made.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3).	No. 13C2-PFTeDA was recovered above acceptance criteria in sample 20251014-SS2-A. Associated compound PFTeDA was detected in this compound; therefore, result was J qualified as estimated.
Are Isotope Dilution Analytes within limits? (See Table 3A).	Yes.
Are secondary ion ratio limits within laboratory limits?	No.

Perfluorinated Compounds by LC/MS/MS – Method 1633	
Description	**Notes and Qualifiers**
	PFOSA and PFPeA ion ratios were below acceptance criteria in sample 20251014-SS2-A. Results were J qualified as estimated. PFHxA ion ratio was below acceptance criteria in sample 20251014-SS3-A. Results were J qualified as estimated. PFOSA ion ratio was below acceptance criteria in sample 20251014-SS4-A. Results were J qualified as estimated. PFPeA ion ratio was below acceptance criteria in sample 20251014-SS5-A. Results were J qualified as estimated. PFHxA and PFPeA ion ratios were below acceptance criteria in sample 20251014-SS6-A. Results were J qualified as estimated
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)?	No. 3:3 FTCA was recovered below acceptance criteria in MSD B416565-MSD1. Parent sample 20251014-SS4-A was non-detect for this compound; therefore, result was UJ qualified. 3:3 FTCA and 5:3 FTCA were recovered below acceptance criteria in MS/MSD B417885-MS1 and B417885-MSD1. Parent sample 20251014-SS2-A was non-detect for these compounds; therefore, results were UJ qualified.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. 3:3 FTCA was recovered below acceptance criteria in LCS B417885-BS1. Associated samples 20251014-SS2-A and DUP-20251014 were non-detect for this compound; therefore, results were UJ qualified.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for compounds by isotope dilution <35 %RSD or curve fit? Is the initial calibration verification within or equal to 70-130% for all natives quantitated by isotope dilution?	Yes.
Is continuing calibration for compounds by isotope dilution equal to or within 70-130% for all natives quantitated by isotope dilution?	No. 11Cl-PF3OUdS was recovered above acceptance criteria in CCV S128884-CCV2. Associated samples

Perfluorinated Compounds by LC/MS/MS – Method 1633	
Description	**Notes and Qualifiers**
	were non-detect for this compound; therefore, no qualifications were made.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	No. Several compounds exhibited high RPD between sample 20251014-SS1-A and its field duplicate DUP-20251014. When the difference between results was <2x the PQL, results were not qualified.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in analyses. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

No major issues were identified with the SDGs. All data in this DUSR are considered usable.

Summary of Findings

VOCs -

- Ethanol was UJ qualified in all samples due to low LCS and LCSD recovery.
- Acetone and methyl acetate were J qualified in sample 20251014-SS4-A due to low MS/MSD recovery.
- Several compounds were UJ qualified in sample 20251014-SS4-A due to low MS/MSD recovery. See Table 4A for list of compounds.
- tert-Butyl alcohol was UJ qualified in sample 20251014-SS4-A due to high MS/MSD RPD.
- Several compounds were UJ qualified in sample 20251015-SB3-C due to low MS/MSD recovery. See Table 4A for list of compounds.
- sec-Butylbenzene, ethanol, and p-isopropyltoluene were UJ qualified in all samples due to poor ICV recovery.
- Acetone and methyl acetate were UJ/J qualified in all soil samples due to poor ICV recovery. See Table 5B for list of qualifications.
- Sec-Butylbenzene, ethanol, naphthalene were UJ qualified in all soil samples due to poor CCV recovery.
- Tert-amyl alcohol was UJ qualified in several samples due to poor CCV recovery. See Table 5B for list of samples.
- Vinyl chloride was UJ qualified in several samples due to poor CCV recovery. See Table 5B for list of samples.
- Acetone was UJ/J qualified in all soil samples due to poor CCV recovery. See Table 5B for list of qualifications.
- Bromomethane, methylene chloride, and tert-amyl methyl ether were UJ qualified in equipment blank samples 20251014-EB and 20251015-EB.

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Summary of Findings

SVOC –

- Aniline, hexachlorocyclopentadiene, and pyridine were UJ qualified in sample 20251014-SS4-A due to low MS/MSD recovery.
- Benzaldehyde was J qualified in samples 20251014-SS1-A and DUP-20251014 due to poor ICV recovery.
- Benzaldehyde was UJ qualified in several samples due to poor ICV recovery. See Table 5B for list of samples.
- 4-Chloroaniline was UJ qualified in all soil samples due to poor ICV recovery.
- 2,4-Dinitrotoluene, 4-nitrophenol, and hexachlorocyclopentadiene were UJ qualified in all samples due to poor CCV recovery.
- Indeno(1,2,3-c,d)pyrene was J qualified in samples 20251014-SS1-A and DUP-20251014 due to poor field duplicate RPD.

Pesticides/PCBs–

- 4,4'-DDT was J qualified in sample 20251014-SS4-A due to poor MS/MSD RPD.
- 4,4'-DDE and cis-chlordane were J qualified in sample 20251014-SS3-A due to high RPDs between columns.
- cis-Chlordane was J qualified in sample 20251014-SS4-A due to high RPD between columns.
- cis-Chlordane and heptachlor epoxide were J qualified in sample 20251014-SS6-A due to high RPDs between columns.
- All pesticide detections were J- qualified and non-detects were UJ qualified in sample 20251014-SS6-A due to reextraction outside of the hold time.
- trans-Chlordane was J qualified in sample DUP-20251014 due to high RPD between columns.
- Several aroclors were UJ qualified in all samples due to poor ICV recovery. See Table 5B for applicable samples.

Metals –

- Copper was J qualified in sample 20251014-SS4-A due to low MSD recovery.

PFAS –

- 3:3 FTCA was UJ qualified in sample 20251014-SS4-A due to low MSD recovery.
- 3:3 FTCA was UJ qualified in samples 20251014-SS2-A and DUP-20251014 due to low LCS recovery.
- 3:3 FTCA and 5:3 FTCA were UJ qualified in sample 20251014-SS2-A due to low MS/MSD recoveries.
- PFTeDA was J qualified in sample 20251014-SS2-A due to high isotope dilution recovery.
- PFOSA and PFPeA were J qualified in sample 20251014-SS2-A due to poor secondary ion ratio confirmation.
- PFHxA was J qualified in sample 20251014-SS3-A due to poor secondary ion ratio confirmation.
- PFOSA was J qualified in sample 20251014-SS4-A due to poor secondary ion ratio confirmation.
- PFPeA was J qualified in sample 20251014-SS5-A due to poor secondary ion ratio confirmation.
- PFHxA and PFPeA were J qualified in sample 20251014-SS6-A due to poor secondary ion ratio confirmation.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
E1633	20251015-EB	EB	PFHxS	0.921	J	ng/L	0.487	1.64
E1633	20251015-EB	EB	PFOS	0.793	J	ng/L	0.577	1.64
6010D	WG2133881-1	MB	Iron	0.818	J	mg/kg	0.42	2

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 2B - List of Samples Qualified for Field Blank Contamination
None.

Table 3 - List of Samples with Surrogates outside Control Limits
None.

Table 3A – List of Samples with Isotope Dilution Recovery outside Control Limits

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Affected Compounds	Sample Qualifier
E1633	20251014-SS2-A	N	13C2-PFTeDA	137	20	130	PFTeDA	J Flag

Table 4A – List of MS/MSD Recoveries outside Control Limits

Method	Parent Sample	Sample Type	Analyte	Orig. Result	Spike Amount	Unit	Acceptance Limits	%R	Sample Qualifier
8260D	20251014-SS4-A	MS MSD	Acetone	0.00977	0.08991 0.09301	mg/Kg	70-130	43 58.7	J
8260D	20251014-SS4-A	MS	tert-Amyl Alcohol	ND	0.08991	mg/Kg	70-130	63.3	UJ
8260D	20251014-SS4-A	MS MSD	2-Butanone	ND	0.08991 0.09301	mg/Kg	70-130	58.8 66.6	UJ
8260D	20251014-SS4-A	MS	tert-Butyl Alcohol	ND	0.08991	mg/Kg	70-130	53.7	UJ
8260D	20251014-SS4-A	MS	sec-Butylbenzene	ND	0.008991	mg/Kg	70-130	133	None – High and ND
8260D	20251014-SS4-A	MS MSD	Dichlorodifluoromethane	ND	0.008991 0.009301	mg/Kg	70-130	142 133	None – High and ND
8260D	20251014-SS4-A	MS MSD	Ethanol	ND	0.08991 0.09301	mg/Kg	70-130	0 0	UJ
8260D	20251014-SS4-A	MS MSD	2-Hexanone	ND	0.008991 0.009301	mg/Kg	70-130	57.3 64.4	UJ

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Method	Parent Sample	Sample Type	Analyte	Orig. Result	Spike Amount	Unit	Acceptance Limits	%R	Sample Qualifier
8260D	20251014-SS4-A	MS MSD	Methyl Acetate	0.00372	0.008991 0.009301	mg/Kg	70-130	30.0 31.3	J
8260D	20251014-SS4-A	MS MSD	4-Methyl-pentanone	ND	0.008991 0.009301	mg/Kg	70-130	60.0 66.0	UJ
8260D	20251014-SS4-A	MS MSD	Naphthalene	ND	0.008991 0.009301	mg/Kg	70-130	62.0 56.9	UJ
8260D	20251014-SS4-A	MSD	1,2,3-Trichlorobenzene	ND	0.009301	mg/Kg	70-130	64.6	UJ
8260D	20251015-SB3-C	MS MSD	Acetone	ND	0.1143 0.1050	mg/Kg	70-130	62.4	UJ
8260D	20251015-SB3-C	MSD	2-Butanone	ND	0.1050	mg/Kg	70-130	67.3	UJ
8260D	20251015-SB3-C	MS MSD	sec-Butylbenzene	ND	0.01143 0.01050	mg/Kg	70-130	131 147	None – High and ND
8260D	20251015-SB3-C	MSD	tert-Butylbenzene	ND	0.01050	mg/Kg	70-130	133	None – High and ND
8260D	20251015-SB3-C	MSD	Dichlorodifluoromethane	ND	0.01050	mg/Kg	70-130	145	None – High and ND
8260D	20251015-SB3-C	MS MSD	Ethanol	ND	0.1143 0.1050	mg/Kg	70-130	20.5 0	UJ
8260D	20251015-SB3-C	MS MSD	2-Hexanone	ND	0.1143 0.1050	mg/Kg	70-130	68.9 65.9	UJ
8260D	20251015-SB3-C	MSD	p-Isopropyltoluene	ND	0.01050	mg/Kg	70-130	134	None – High and ND
8260D	20251015-SB3-C	MSD	Methyl Acetate	ND	0.01050	mg/Kg	70-130	61.5	UJ
8260D	20251015-SB3-C	MS MSD	Naphthalene	ND	0.01143 0.01050	mg/Kg	70-130	55.5 64.0	UJ
8270E	20251014-SS4-A	MS MSD	Aniline	ND	1.831 1.832	mg/Kg	40-140	36.2 36.5	UJ
8270E	20251014-SS4-A	MS MSD	Hexachlorocyclopentadiene	ND	1.831 1.832	mg/Kg	30-130	20.1 24.7	UJ
8270E	20251014-SS4-A	MS MSD	Pyridine	ND	1.831 1.832	mg/Kg	40-140	38.1 37.9	UJ
E1633	20251014-SS4-A	MSD	3:3 FTCA	ND	9.839	ug/Kg	45-130	41	UJ
E1633	20251014-SS2-A	MS MSD	3:3 FTCA	ND	9.965 9.976	ug/Kg	45-130	19.8 18.6	UJ
E1633	20251014-SS2-A	MS	5:3 FTCA	ND	49.82	ug/Kg	60-130	55.8	UJ
6010D	20251014-SS4-A	MSD	Copper	17.2	21.4	mg/Kg	75-125	70	J

Method	Parent Sample	Sample Type	Analyte	Orig. Result	Spike Amount	Unit	Acceptance Limits	%R	Sample Qualifier
6010D	20251014-SS4-A	MS MSD	Iron	4700	84.8 85.6	mg/Kg	75-125	12 0	None - >4x Spike

Table 4B – List of MS/MSD RPD outside Control Limits

Method	Sample ID	Analyte	RPD	RPD Limit	Sample Qualifier
8260D	20251014-SS4-A	tert-Butyl Alcohol	36.7	30	UJ Flag
8081B	20251014-SS4-A	Delta-BHC	33.8	30	None - ND
8081B	20251014-SS4-A	4,4-DDD	33.5	30	None - ND
8081B	20251014-SS4-A	4,4-DDT	34.1	30	J Flag
8081B	20251014-SS4-A	Endosulfan II	32.2	30	None - ND
8081B	20251014-SS4-A	Endosulfan Sulfate	32.8	30	None - ND
8081B	20251014-SS4-A	Endrin	31.6	30	None - ND
8081B	20251014-SS4-A	Endrin Aldehyde	34.0	30	None - ND
8081B	20251014-SS4-A	Endrin Ketone	32.1	30	None - ND
8081B	20251014-SS4-A	Methoxychlor	30.6	30	None - ND
6010D	20251014-SS4-A	Iron	25	20	None - >4x Spike

Table 5 – List of LCS Recoveries outside Control Limits

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Affected Samples	Sample Qualifier
8260D	B415955-BS2 B415955-BSD2	LCS LCSD	Ethanol	36.2 38.1	40	160	20251014-SS1-A 20251014-SS1-B 20251014-SS2-A 20251014-SS3-A 20251014-SS2-B 20251014-SS3-B 20251014-SS4-A 20251014-SS7-A 20251014-SS4-B 20251014-SS7-B 20251014-SS5-A 20251014-SS6-A 20251014-SS6-B	UJ
8260D	B416053-BS2	LCS	Ethanol	31.6	40	160	20251014-SS5-B 20251015-SB1-C 20251015-SB2-C	UJ

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Affected Samples	Sample Qualifier
							20251015-SB3-C DUP-20251014 DUP-20251015	
E1633	B417885-BS1	LCS	3:3 FTCA	19.1	45	130	20251014-SS2-A DUP-20251014	UJ

Table 5A – List of LCS/LCSD RPD outside Control Limits

Method	Sample ID	Analyte	RPD	RPD Limit	Affected Samples	Sample Qualifier
8260D	B416053-BS2 B416053-BSD2	Ethanol	35.8	30	20251014-SS5-B 20251015-SB1-C 20251015-SB2-C 20251015-SB3-C DUP-20251014 DUP-20251015	UJ

Table 5B – List of ICV/CCV recoveries outside Control Limits

Method	Lab Sample Name	Sample Type	Analyte	%RSD or %D	%RSD or %D Limit	Associated Samples	Sample Qualifier
8260D	S122448-ICV1	ICV	Acetone	62.4	30	20251014-SS1-B 20251014-SS3-A 20251014-SS3-B 20251014-SS4-B 20251014-SS5-A 20251014-SS6-A 20251015-SB3-C 20251014-EB 20251015-EB	UJ
						20251014-SS1-A 20251014-SS2-A 20251014-SS2-B 20251014-SS4-A 20251014-SS5-B 20251014-SS6-B 20251014-SS7-A 20251014-SS7-B 20251015-SB1-C	J

Method	Lab Sample Name	Sample Type	Analyte	%RSD or %D	%RSD or %D Limit	Associated Samples	Sample Qualifier
						20251015-SB2-C DUP-20251014 DUP-20251015	
			Methyl Acetate	58.6	30	20251014-SS1-A 20251014-SS1-B 20251014-SS2-B 20251014-SS3-A 20251014-SS3-B 20251014-SS4-B 20251014-SS5-A 20251014-SS6-B 20251014-SS7-A 20251014-SS7-B 20251015-SB1-C 20251015-SB2-C 20251015-SB3-C 20251014-EB 20251015-EB	UJ
						20251014-SS2-A 20251014-SS4-A 20251014-SS5-B 20251014-SS6-A DUP-20251014 DUP-20251015	J
			sec-Butylbenzene	40.6	30	All Samples	UJ
			Ethanol	-65.4	30		UJ
			p-Isopropyltoluene	32.0	30		UJ
8260D	S127604-CCV1	CCV	Acetone	-24.9	20	20251014-SS1-B 20251014-SS3-A 20251014-SS3-B 20251014-SS4-B 20251014-SS5-A 20251014-SS6-A	UJ
						20251014-SS1-A	J

Method	Lab Sample Name	Sample Type	Analyte	%RSD or %D	%RSD or %D Limit	Associated Samples	Sample Qualifier
						20251014-SS2-A 20251014-SS2-B 20251014-SS4-A 20251014-SS6-B 20251014-SS7-A 20251014-SS7-B	
			Tert-Amyl Alcohol	-20.9	20	20251014-SS1-A 20251014-SS1-B 20251014-SS2-A 20251014-SS3-A 20251014-SS2-B 20251014-SS3-B 20251014-SS4-A 20251014-SS7-A 20251014-SS4-B 20251014-SS7-B 20251014-SS5-A 20251014-SS6-A 20251014-SS6-B	UJ
			Sec-Butylbenzene	26.4	20		UJ
			Naphthalene	-23.9	20		UJ
8260D	S127604-CCV2	CCV	Ethanol	-99.9	20		UJ
8260D	S127683-CCV1	CCV	Acetone	-25.6	20	20251015-SB3-C	UJ
						20251014-SS5-B 20251015-SB1-C 20251015-SB2-C DUP-20251014 DUP-20251015	J
			Sec-Butylbenzene	24.3	20	20251015-SB3-C 20251014-SS5-B 20251015-SB1-C 20251015-SB2-C DUP-20251014 DUP-20251015	UJ
			Naphthalene	-26.4	20		UJ
			Vinyl Chloride	23.2	20		UJ
8260D	S127683-CCV2	CCV	Ethanol	-99.9	20		UJ
8260D	S127693-CCV1	CCV	Tert-Amyl Methyl Ether	-20.6	20	20251014-EB 20251015-EB	UJ
			Bromomethane	-45.2	20		UJ
			Methylene Chloride	-25.7	20		UJ

Method	Lab Sample Name	Sample Type	Analyte	%RSD or %D	%RSD or %D Limit	Associated Samples	Sample Qualifier
8270E	S1262384-ICV1	ICV	Benzaldehyde	-65.6	30	20251014-SS2-A 20251014-SS3-A 20251014-SS4-A 20251014-SS5-A 20251014-SS6-A 20251014-SS7-A	UJ
						20251014-SS1-A DUP-20251014	J
			4-Chloroaniline	-38.3	30	20251014-SS1-A DUP-20251014 20251014-SS2-A 20251014-SS3-A 20251014-SS4-A 20251014-SS5-A 20251014-SS6-A 20251014-SS7-A	UJ
8270E	S127754-CCV1	CCV	2,4-Dinitrotoluene	20.5	20	20251014-SS1-A DUP-20251014 20251014-SS2-A 20251014-SS3-A 20251014-SS4-A 20251014-SS5-A 20251014-SS6-A 20251014-SS7-A	UJ
			Hexachlorocyclopentadiene	-35.5	20		UJ
			4-Nitrophenol	23.1	20		UJ
8082A	S127482-ICV1	ICV	Aroclor-1242 (5)	-26.4	20	20251014-SS2-A 20251014-SS3-A 20251014-SS4-A 20251014-SS5-A 20251014-SS6-A 20251014-SS7-A 20251014-SS1-A DUP-20251014	UJ
8082A	S127483-ICV1	ICV	Aroclor-1268 (2)	22.1	20		UJ
8082A	S127484-ICV1	ICV	Aroclor-1221 (1)	-24.4	20		UJ
			Aroclor-1221 (4)	71.7	20		UJ
E1633	S128884-CCV2	CCV	11Cl-PF3OUdS	32.7	30	20251014-SS1-A 20251014-SS3-A 20251014-SS4-A	None - ND

Method	Lab Sample Name	Sample Type	Analyte	%RSD or %D	%RSD or %D Limit	Associated Samples	Sample Qualifier
						20251014-SS5-A 20251014-SS6-A 20251014-SS7-A	

Table 6 –Samples that were Re-analyzed/Diluted

Sample ID	Lab ID	Method	Sample Type	Analytes	Action
20251014-SS1-A	25J1099-01	6010D	N	All Analytes	Analyzed at a 2x Dilution
		8081B	N	All Analytes	Analyzed at a 5x Dilution
		8081B	N	Endrin Aldehyde	Reanalyzed at a 5x Dilution
		8082A	N	All Analytes	Analyzed at a 4x Dilution
20251014-SS2-A	25J1099-03	6010D	N	All Analytes	Analyzed at a 2x Dilution
		8081B	N	All Analytes	Analyzed at a 5x Dilution
		8081B	N	Endrin Aldehyde	Reanalyzed at a 5x Dilution
		8082A	N	All Analytes	Analyzed at a 4x Dilution
		1633A	N	All Analytes	Reextracted due to initial QC errors
20251014-SS3-A	25J1099-04	6010D	N	All Analytes	Analyzed at a 2x Dilution
		8081B	N	Endrin Aldehyde	Reanalyzed
		8082A	N	All Analytes	Analyzed at a 4x Dilution
20251014-SS4-A	25J1099-07	6010D	N	All Analytes	Analyzed at a 2x Dilution
		8081B	N	All Analytes	Analyzed at a 5x Dilution
		8081B	N	Endrin Aldehyde	Reanalyzed at a 5x Dilution
		8082A	N	All Analytes	Analyzed at a 4x Dilution
20251014-SS7-A	25J1099-08	6010D	N	All Analytes	Analyzed at a 2x Dilution
		8081B	N	All Analytes	Analyzed at a 5x Dilution
		8081B	N	Endrin Aldehyde	Reanalyzed at a 5x Dilution
		8082A	N	All Analytes	Analyzed at a 4x Dilution
20251014-SS5-A	25J1099-11	6010D	N	All Analytes	Analyzed at a 2x Dilution
		8081B	N	All Analytes	Analyzed at a 5x Dilution
		8081B	N	Endrin Aldehyde	Reanalyzed at a 5x Dilution

Sample ID	Lab ID	Method	Sample Type	Analytes	Action
		8082A	N	All Analytes	Analyzed at a 4x Dilution
20251014-SS6-A	25J1099-12	6010D	N	All Analytes	Analyzed at a 2x Dilution
		8081B	N	All Analytes	Reextracted at a 1x Dilution
		8081B	N	Endrin Aldehyde	Reanalyzed at a 1x Dilution
		8082A	N	All Analytes	Analyzed at a 4x Dilution
DUP-20251014	25J1099-16	6010D	N	All Analytes	Analyzed at a 2x Dilution
		8081B	N	All Analytes	Analyzed at a 5x Dilution
		8081B	N	Endrin Aldehyde	Reanalyzed at a 5x Dilution
		8082A	N	All Analytes	Analyzed at a 4x Dilution
		1633A	N	All Analytes	Reextracted due to initial QC errors

Table 7A – List of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	20251014-SS1-A	DUP-20251014	RPD	RPD Rating	Sample Qualifier
E1633	1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	ug/kg	Solid	0.799	0.589	0.491	18.1%	Good	None
E1633	3-Perfluoroheptyl propanoic acid (7:3FTCA)	ug/kg	Solid	5	ND	1.61	NC	Poor	None - <2x PQL
8260D	Acetone	mg/kg	Solid	0.086	0.028	0.031	10.2%	Good	None
6010D	Aluminum	mg/kg	Solid	9.76	2220	2280	2.7%	Good	None
6010D	Arsenic	mg/kg	Solid	0.976	3.68	3.00	20.4%	Good	None
6010D	Barium	mg/kg	Solid	0.976	19.0	18.6	2.1%	Good	None
8270E	Benzaldehyde	mg/kg	Solid	0.43	0.060	0.089	38.9%	Good	None
8270E	Benzo(a)anthracene	mg/kg	Solid	0.041	0.062	0.051	19.5%	Good	None
8270E	Benzo(a)pyrene	mg/kg	Solid	0.041	0.092	0.075	20.4%	Good	None
8270E	Benzo(b)fluoranthene	mg/kg	Solid	0.041	0.23	0.15	42.1%	Good	None
8270E	Benzo(g,h,i)perylene	mg/kg	Solid	0.041	0.20	0.11	58.1%	Good	None
8270E	Benzo(k)fluoranthene	mg/kg	Solid	0.041	0.074	0.049	40.7%	Good	None
8270E	Benzyl Butyl Phthalate	mg/kg	Solid	0.43	0.075	0.14	60.5%	Good	None
6010D	Beryllium	mg/kg	Solid	0.488	0.097	0.089	8.6%	Good	None

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Method	Analyte	Unit	Matrix	PQL	20251014-SS1-A	DUP-20251014	RPD	RPD Rating	Sample Qualifier
8270E	Bis(2-Ethylhexyl) Phthalate	mg/kg	Solid	0.43	0.11	0.27	84.2%	Poor	None - <2x PQL
6010D	Cadmium	mg/kg	Solid	0.976	0.303	0.316	4.2%	Good	None
6010D	Calcium	mg/kg	Solid	9.76	899	1430	45.6%	Good	None
6010D	Chromium, Total	mg/kg	Solid	0.976	5.20	5.59	7.2%	Good	None
8270E	Chrysene	mg/kg	Solid	0.041	0.095	0.095	0.0%	Good	None
8081B	cis-Chlordane	mg/kg	Solid	0.031	0.014	0.036	88.0%	Poor	None - <2x PQL
6010D	Cobalt	mg/kg	Solid	1.95	1.86	1.15	47.2%	Good	None
6010D	Copper	mg/kg	Solid	0.976	42.0	65.3	43.4%	Good	None
9014	Cyanide	mg/kg	Solid	0.53	0.52	0.60	14.3%	Good	None
8270E	Dibenz(a,h)anthracene	mg/kg	Solid	0.041	0.030	0.022	30.8%	Good	None
8270E	Fluoranthene	mg/kg	Solid	0.041	0.12	0.18	40.0%	Good	None
8270E	Indeno(1,2,3-c,d)pyrene	mg/kg	Solid	0.041	0.20	0.093	73.0%	Poor	J Flag
6010D	Iron	mg/kg	Solid	4.88	8440	4900	53.1%	Good	None
6010D	Lead	mg/kg	Solid	4.88	110	109	0.9%	Good	None
6010D	Magnesium	mg/kg	Solid	9.76	318	502	44.9%	Good	None
6010D	Manganese	mg/kg	Solid	0.976	80.9	52.1	43.3%	Good	None
7471B	Mercury	mg/kg	Solid	0.081	0.084	0.152	57.6%	Good	None
8260D	Methyl Acetate	mg/kg	Solid	0.0035	ND	0.0019	NC	Poor	None - <2x PQL
E1633	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ug/kg	Solid	0.2	1.64	1.58	3.7%	Good	None
6010D	Nickel	mg/kg	Solid	2.44	3.10	3.16	1.9%	Good	None
E1633	N-methyl perfluorooctanesulfonamide (NMeFOSA)	ug/kg	Solid	0.2	0.191	ND	NC	Poor	None - <2x PQL
E1633	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ug/kg	Solid	0.2	3.40	5.59	48.7%	Good	None
E1633	N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	ug/kg	Solid	2	4.39	7.80	55.9%	Good	None
8081B	P,P'-DDT	mg/kg	Solid	0.025	0.0092	0.0077	17.8%	Good	None
8082A	PCB-1260 (Aroclor 1260)	mg/kg	Solid	0.1	0.054	0.073	29.9%	Good	None

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Method	Analyte	Unit	Matrix	PQL	20251014-SS1-A	DUP-20251014	RPD	RPD Rating	Sample Qualifier
E1633	Perfluorobutanesulfonic acid (PFBS)	ug/kg	Solid	0.2	2.51	2.26	10.5%	Good	None
E1633	Perfluorobutanoic Acid	ug/kg	Solid	0.799	1.06	0.866	20.1%	Good	None
E1633	Perfluorodecanesulfonic acid (PFDS)	ug/kg	Solid	0.2	0.796	0.903	12.6%	Good	None
E1633	Perfluorodecanoic acid (PFDA)	ug/kg	Solid	0.2	29.7	28.2	5.2%	Good	None
E1633	Perfluorododecanoic acid (PFDoA)	ug/kg	Solid	0.2	22.3	18.5	18.6%	Good	None
E1633	Perfluoroheptanoic acid (PFHpA)	ug/kg	Solid	0.2	1.85	1.68	9.6%	Good	None
E1633	Perfluorohexanesulfonic acid (PFHxS)	ug/kg	Solid	0.2	0.260	0.185	33.7%	Good	None
E1633	Perfluorohexanoic acid (PFHxA)	ug/kg	Solid	0.2	1.64	1.35	19.4%	Good	None
E1633	Perfluorononanoic acid (PFNA)	ug/kg	Solid	0.2	5.97	5.19	14.0%	Good	None
E1633	Perfluorooctane Sulfonamide (PFOSA)	ug/kg	Solid	0.2	4.71	4.87	3.3%	Good	None
E1633	Perfluorooctanesulfonic acid (PFOS)	ug/kg	Solid	0.2	17.8	17.5	1.7%	Good	None
E1633	Perfluorooctanoic acid (PFOA)	ug/kg	Solid	0.2	15.1	13.9	8.3%	Good	None
E1633	Perfluoropentanoic Acid (PFPeA)	ug/kg	Solid	0.4	2.03	1.89	7.1%	Good	None
E1633	Perfluorotetradecanoic acid (PFTeDA)	ug/kg	Solid	0.2	6.86	6.39	7.1%	Good	None
E1633	Perfluorotridecanoic Acid (PFTriA/PFTrDA)	ug/kg	Solid	0.2	5.40	4.58	16.4%	Good	None
E1633	Perfluoroundecanoic Acid (PFUnA)	ug/kg	Solid	0.2	12.9	11.8	8.9%	Good	None
8270E	Phenanthrene	mg/kg	Solid	0.041	0.050	0.096	63.0%	Good	None
6010D	Potassium	mg/kg	Solid	244	91.8	117	24.1%	Good	None
8270E	Pyrene	mg/kg	Solid	0.041	0.11	0.13	16.7%	Good	None
6010D	Selenium	mg/kg	Solid	1.95	0.534	ND	NC	Poor	None
6010D	Silver	mg/kg	Solid	0.488	0.353	0.386	8.9%	Good	None
2540G	Solids, Percent	-	Solid	0	79.4	80.6	1.5%	Good	None
8260D	tert-Butyl Alcohol	mg/kg	Solid	0.086	0.042	ND	NC	Poor	None - <2x PQL
8260D	Tetrachloroethene (PCE)	mg/kg	Solid	0.0017	0.0018	0.0014	25.0%	Good	None
8081B	trans-Chlordane	mg/kg	Solid	0.031	0.019	0.014	30.3%	Good	None
6010D	Vanadium	mg/kg	Solid	0.976	8.69	5.80	39.9%	Good	None
6010D	Zinc	mg/kg	Solid	4.88	124	107	14.7%	Good	None

Method	Analyte	Unit	Matrix	PQL	20251015-SB2-C	DUP-20251015	RPD	RPD Rating	Qualifier
8260D	Acetone	ug/kg	Solid	0.059	0.062	0.056	10.2%	Good	None
8260D	cis-1,2-Dichlorethene	mg/kg	Solid	0.0012	0.018	0.013	32.3%	Good	None
8260D	Methyl Acetate	mg/kg	Solid	0.0024	ND	0.015	NC	Poor	J Flag
8260D	Methyl Ethyl Ketone (2-Butanone)	mg/kg	Solid	0.024	0.0074	0.0052	34.9%	Good	None
2540G	Solids, Percent	mg/kg	Solid	-	93.2	92.8	0.4%	Good	None
8260D	Tetrachloroethene (PCE)	mg/kg	Solid	0.0012	0.081	0.053	41.8%	Good	None
8260D	trans-1,2-Dichloroethene	mg/kg	Solid	0.0012	0.00082	0.00058	34.3%	Good	None
8260D	Trichloroethene (TCE)	mg/kg	Solid	0.0012	0.024	0.016	40.0%	Good	None

Table 7B – List of Dual Column Results

Method	Analyte	Unit	Matrix	20251014-SS3-A		RPD	RPD Rating	Qualifier
				1C	2C			
8081B	4,4-DDE	mg/kg	Solid	0.0084	0.0020	123%	Poor	J Flag
8081B	4,4-DDT	mg/kg	Solid	0.0058	0.0059	14.8%	Good	None
8081B	cis-Chlordane	mg/kg	Solid	0.050	0.026	63.2%	Poor	J Flag
8081B	Dieldrin	mg/kg	Solid	0.00074	0.00084	12.7%	Good	None
8081B	trans-Chlordane	mg/kg	Solid	0.026	0.025	3.9%	Good	None

Method	Analyte	Unit	Matrix	20251014-SS4-A		RPD	RPD Rating	Qualifier
				1C	2C			
8081B	4,4-DDT	mg/kg	Solid	0.013	0.011	16.7%	Good	None
8081B	cis-Chlordane	mg/kg	Solid	0.12	0.070	52.6%	Poor	J Flag
8081B	trans-Chlordane	mg/kg	Solid	0.068	0.067	2.9%	Good	None

Method	Analyte	Unit	Matrix	20251014-SS6-A RE1		RPD	RPD Rating	Qualifier
				1C	2C			
8081B	4,4-DDE	mg/kg	Solid	0.0019	0.0020	5.1%	Good	None
8081B	4,4-DDT	mg/kg	Solid	0.0065	0.0060	8.0%	Good	None
8081B	cis-Chlordane	mg/kg	Solid	0.059	0.031	62.2%	Poor	J Flag
8081B	Dieldrin	mg/kg	Solid	0.0012	0.0012	0.0%	Good	None

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Method	Analyte	Unit	Matrix	20251014-SS6-A RE1		RPD	RPD Rating	Qualifier
				1C	2C			
8081B	trans-Chlordane	mg/kg	Solid	0.029	0.028	3.5%	Good	None
8081B	Heptachlor Epoxide	mg/kg	Solid	0.0056	0.0027	69.9%	Poor	J Flag

Method	Analyte	Unit	Matrix	DUP-20251014		RPD	RPD Rating	Qualifier
				1C	2C			
8081B	4,4-DDT	mg/kg	Solid	0.0068	0.0077	12.4%	Good	None
8081B	cis-Chlordane	mg/kg	Solid	0.036	0.034	5.7%	Good	None
8082A	Aroclor-1260	mg/kg	Solid	0.073	0.065	11.6%	Good	None
8081B	trans-Chlordane	mg/kg	Solid	0.031	0.014	75.6%	Poor	J Flag

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Acronym List and Table Key:

CCB	=	continuing calibration blank
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
FB	=	field blank
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICS	=	initial calibration standard
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
µg/L	=	micrograms per liter
MS	=	matrix spike
MSD	=	matrix spike duplicate
MSS	=	matrix spike soluble
MSI	=	matrix spike insoluble
ng/L	=	nanograms per liter
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QAPP	=	quality assurance project plan
QC	=	quality control
RPD	=	relative percent difference
SDG	=	sample delivery group
SO	=	soil
SQ	=	soil quality control
TB	=	trip blank
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
WQ	=	water
WG	=	water grab
WQ	=	water quality control

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